

Dolphin™ 75e

with Windows® 10 IoT Mobile Enterprise

User's Guide

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Customer Support

Product Service and Repair

Honeywell International Inc. provides service for all of its products through service centers throughout the world. To find your service center, go to www.honeywellaidc.com and select **Support > Contact Support > Service and Repair**. Contact your service center to obtain a Return Material Authorization number (RMA #) before you return the product. To obtain warranty or non-warranty service, return your product to Honeywell (postage paid) with a copy of the dated purchase record.

For ongoing and future product quality improvement initiatives, the terminal comes equipped with an embedded device lifetime counter function. Honeywell may use the lifetime counter data for future statistical reliability analysis as well as ongoing quality, repair and service purposes.

Contacting Customer Support

To search our knowledge base for a solution or to log in to the Technical Support portal and report a problem, go to www.hsmcontactsupport.com.

For our latest contact information, see www.honeywellaidc.com/locations.

Limited Warranty

For warranty information, go to www.honeywellaidc.com and click **Resources > Warranty**.

The limited duration of the warranty for the Dolphin 75e is as follows:

- The duration of the limited warranty for terminals with an integrated imager is one year.
- The duration of the limited warranty for touch screens is one year.

The duration of the limited warranty for batteries is one year. Use of any battery from a source other than Honeywell may result in damage not covered by the warranty. Batteries returned to Honeywell International Inc. in a reduced state may or not be replaced under this warranty. Battery life will be greatly increased when following the battery instructions in this user's guide.

The duration of the limited warranty for the Dolphin 70e Black HomeBase, Dolphin 70e Black eBase, Dolphin 70e Black Net Base, Dolphin 70e Black Mobile Base, Dolphin 70e Black ChargeBase, and the Common QuadCharger is one year.

Warranty Disclaimer: Proper Use of a Touch Screen Mobile Device

If your device has a touch screen display, please note that a touch screen responds best to a light touch from the pad of your finger or a Honeywell approved stylus. Using excessive force or a metallic object when pressing on the touch-screen may cause damage to the tempered glass surface and may not be covered by the product's warranty.

How to Extend Your Warranty

Honeywell International Inc. offers a variety of service plans on our hardware products. These agreements offer continued coverage for your equipment after the initial warranty expires. For more information, contact your Sales Representative, Customer Account Representative, or Product Service Marketing Manager from Honeywell International Inc., or your Authorized Reseller.

Send Feedback

Your feedback is crucial to the continual improvement of our documentation. To provide feedback about this manual, please contact the Technical Communications department directly at ACSHSMTtechnicalcommunications@honeywell.com.



Getting Started

Out of the Box

Verify that the carton contains the following items:

- Dolphin 75e handheld computer (terminal)
- 1 GB, 2 GB or 4 GB industrial grade microSD™ memory card (optional)
- Rechargeable 3.7V Li-ion battery
- USB charge/communication cable
- Power adapter with regional plug adapters
- Product documentation

If you ordered accessories for your terminal, verify that they are also included with the order. Be sure to keep the original packaging in case you need to return the Dolphin terminal for service.

Memory Card Specifications

Honeywell recommends the use of Single Level Cell (SLC) industrial grade microSD or microSDHC™ memory cards with Dolphin terminals for maximum performance and durability. Contact a Honeywell sales representative for additional information on qualified memory card options.

Initial Setup for Dolphin 75e Terminal

Step 1. Install the Battery

Before installing the main battery, read the [Guidelines for Battery Pack Use and Disposal](#) on page 2-13.

The terminal is shipped with the battery packaged separate from the unit. To install the battery, follow the installation steps illustrated. For information on how to remove the battery, see [Replacing the Battery](#) on page 1-11.

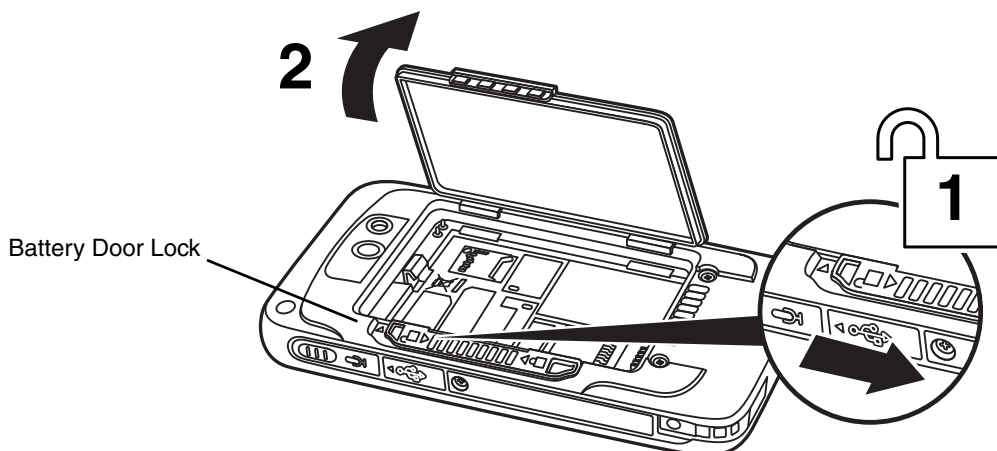


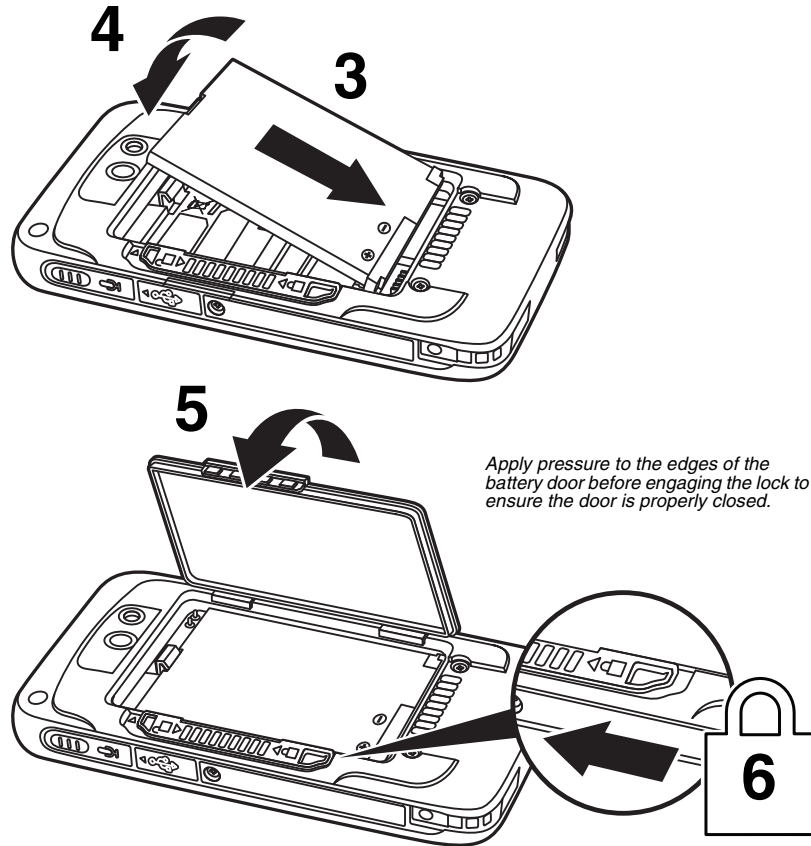
Ensure all components are dry prior to placing the battery in the terminal. Mating wet components may cause damage not covered by the warranty.

We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

Important: All battery and connector doors must be present, undamaged, and properly closed to maintain the environmental rating of the terminal.

Note: Standard battery and standard battery door shown.





Step 2. Charge the Battery

The power source for the Dolphin terminal is the 3.7V Li-ion rechargeable battery located under the battery door on the back panel of the device. See [Battery](#) on page 2-8 for additional information on battery storage, use, and disposal.

Important: Removing the battery from the terminal erases all non-persistent memory. Always power off the terminal before removing the battery. For information on how to remove the battery from the terminal, see [Replacing the Battery](#) on page 1-11.

Before Initial Use

Dolphin terminals ship with the battery significantly discharged of power. After installing the battery in the terminal, charge the battery with a Dolphin 75e compatible charging peripheral for a minimum of **4 hours** for the standard battery pack or **6 hours** for the extended battery pack.

When using the 70e-USB Charge/Communication cable to charge from a 500mA USB port on a host device, charge the battery for a minimum of **6 hours** for the standard battery and **8 hours** for the extended battery.

Note: Inadequate source current may interfere with effective battery charging; see [Important Charging Guidelines](#) on page 2-10 for additional information.



We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.

Dolphin 75e model terminals are designed for use with the following charging devices and cables: 70e-HB, 70e-CB, 70e-EHB, 70e-NB, 70e-MB, 70e-MC, and 70e-USB ADAPTERKIT. See pages 2-1 and 2-2 for additional information on peripherals and accessories.



Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.

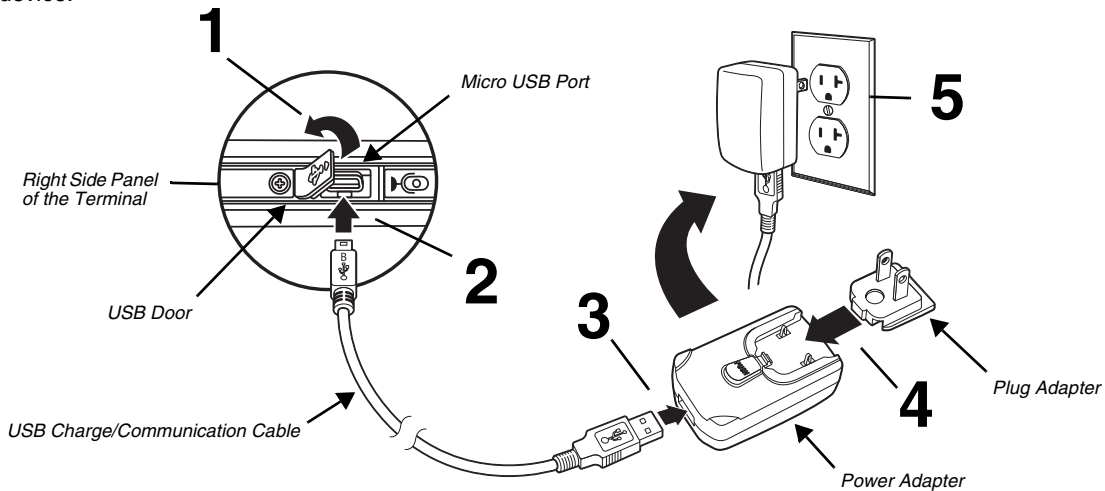
Using the USB Charge/Communication Cable (Model 70e-USB ADAPTERKIT)

Dolphin 75e terminals ship with a USB Charge/Communication Cable and a power adapter with regional plug adapters. The USB Charge/Communication cable provides two options for charging the terminal. Use the cable in conjunction with the provided power supply adapter and plug adapter to charge the terminal from a power outlet (Option 1) or connect the cable to a high-power USB port to charge from a host device (Option 2).

Warning: The terminal shall only be connected to CTIA certified adapters, products that bear the USB-IF logo or products that have completed the USB-IF compliance program when using the micro USB port as a charging source.

Option 1: Charging from a power outlet

Use only a UL Listed power supply, which has been qualified by Honeywell with an output rated at 5VDC and 1A with the device.

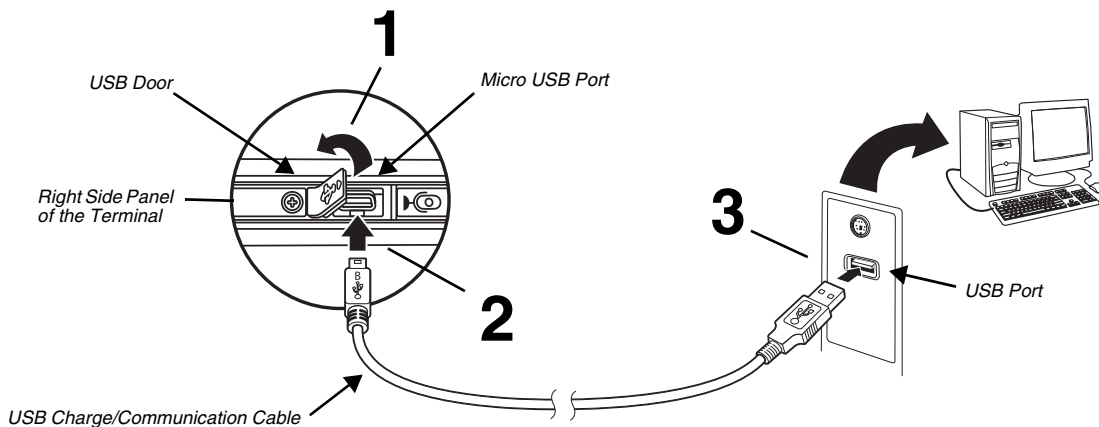


Option 2: Charging from a high power USB port on a host device (PC)

Charging the battery through a USB port takes more time than direct charging using the provided power supply. Inadequate source current may lengthen the charge time or prevent the battery from charging if the terminal is drawing more current than supplied by the USB port. The maximum current supplied by a USB Host can vary from 100mA to 500mA. **Do not attempt to charge the terminal from a 100mA source.** An active Dolphin terminal uses more current than supplied by a 100mA source causing the terminal to continue to draw power from the battery.


See [Important Charging Guidelines](#) on page 2-10 for additional information.

*Note: Placing the terminal in **Sleep (Suspend)** mode while charging reduces the current draw of the terminal and shortens the charging time of the battery.*




Step 3. Complete the First Time Consumer Setup

To power on and set up the terminal:

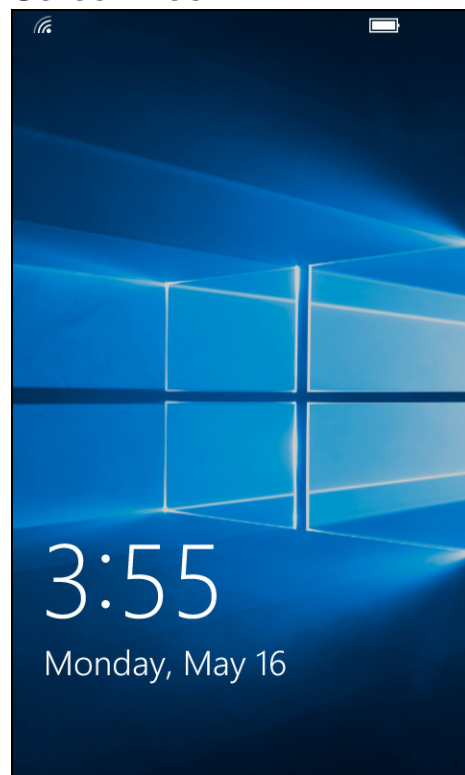
1. Press the Power button .
2. Select a language, and then touch **Next**.
3. Select your region, and then touch **Next**.
4. Touch **Cancel** to bypass the advanced provisioning options and access the consumer setup.
5. Follow the on screen prompts for setting up the terminal, your WiFi connections, and creating a Microsoft® account (optional). To learn more about what you can do with a Microsoft account, go to <https://account.microsoft.com/about>.

Unlocking the Screen


Swipe up from the bottom of the screen to unlock the terminal and access the **Start**  screen.


For information on customizing the security feature, see [Managing Security and Customizing the Screen Lock](#) on page 5-2.



Screen Lock




About the Start Screen and App Access

Start  is the first screen you see once you power on the terminal and unlock screen. You can add, delete, move, resize, or group Tiles into folders for easy quick access. Tiles can be apps, contacts, maps, albums, or office files. Live Tiles provide notifications and updates in real time (e.g., weather stats).


On **Start** , touch and hold a **Tile**, and then:

- Drag the Tile to a new location on the screen.
- Touch **Unpin**  to delete the Tile.
- Touch the **arrow**  to toggle through Tile sizes.
- Drag the Tile on top of another Tile you want in the same folder. Select **Name Folder** to customize the folder name

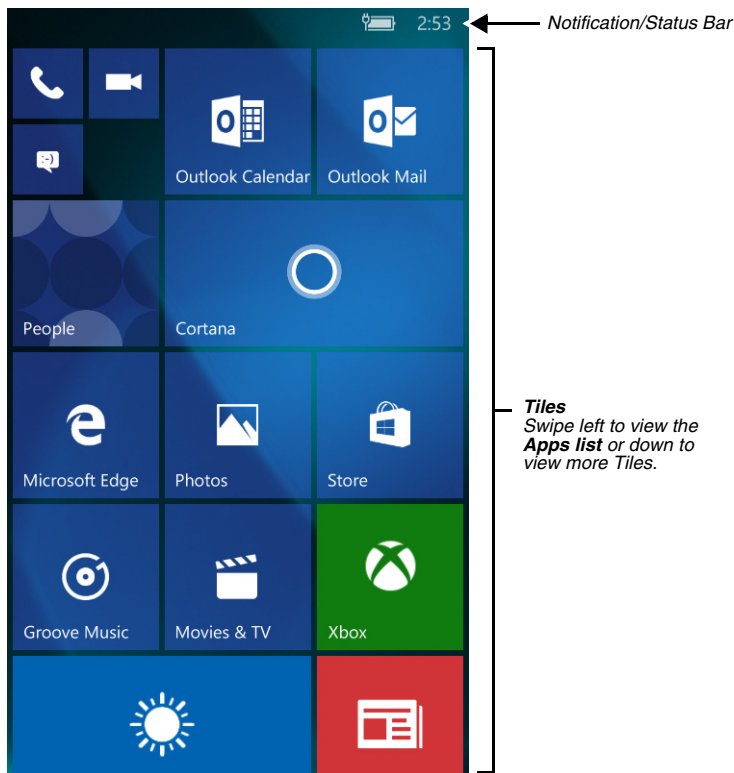
On **Start** , swipe left on the screen to access the **Apps list**.

- Swipe up and down to scroll through the apps.
- Touch the app icon/name to open the app.
- Touch and hold an app, and then select **pin to start** if you want to add it to the **Start** screen.

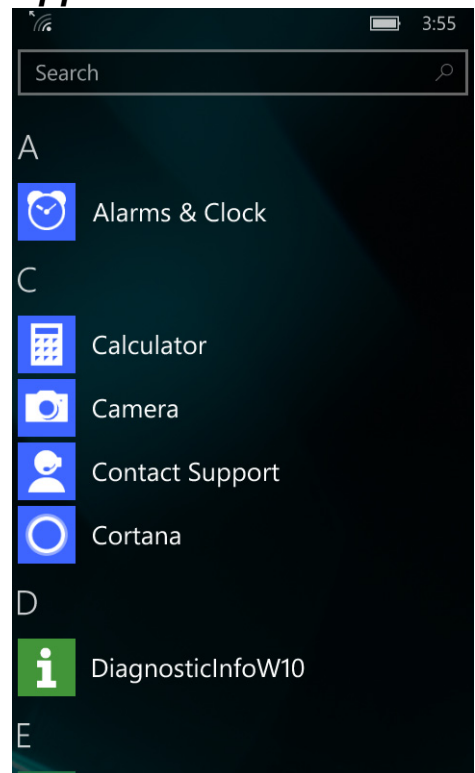
To find an app quickly from the list:

- Touch a letter to alphabetically search for an app.
- Enter the app name in the **Search** box, and then select .

Start







Apps List



Note: Due to model hardware differences, some inactive apps may appear on the App List even though they are not supported by the Dolphin model type (e.g., the Phone app appears on WLAN only models). Selecting an inactive app icon has no effect and will not cause any functional issues.

Accessing the Action Center from the Status Bar

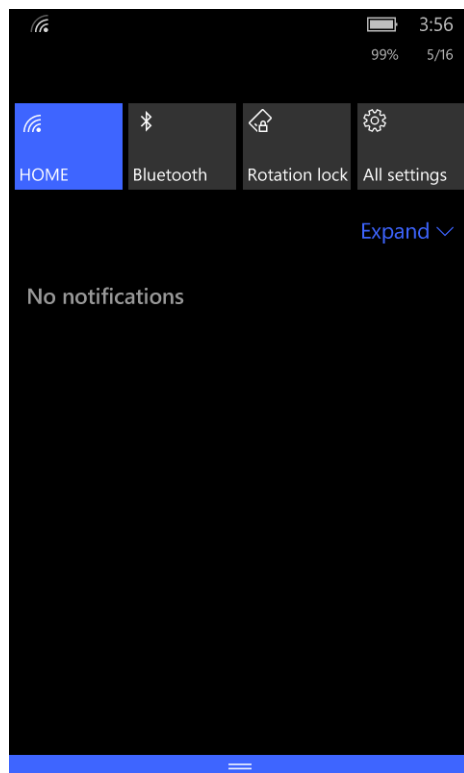
To view the battery charge level (%), details about a notification or to quickly access and modify settings, touch and hold the status bar at the top of the screen and then drag down.

- The battery charge level (%) shows in the upper right corner of the screen.
- Touch any notification to open the related app and access additional settings or information.
- Touch  All Settings to access system and application settings.
- Touch  to access the Wi-Fi settings screen where you can view available networks, add a Wi-Fi network, or turn Wi-Fi networking On or Off.
- Touch  to turn the Bluetooth technology on or off.
- Touch  Rotation lock to turn on or off automatic screen rotation when you rotate the terminal 90 degrees.

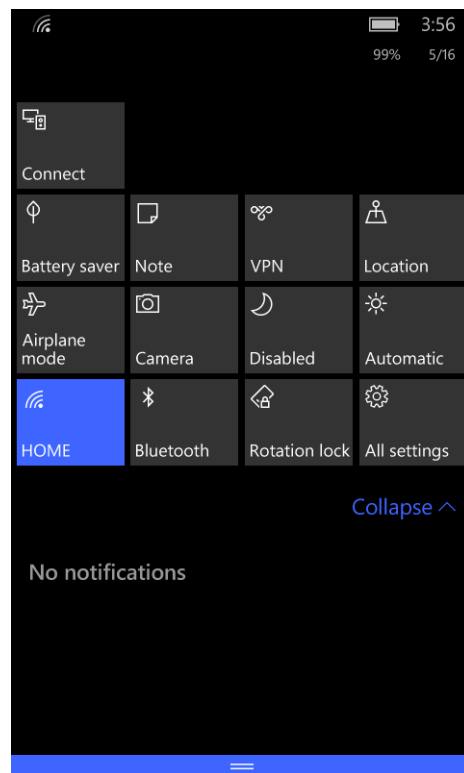
Select **Expand** to view more quick actions.

To close the action center, swipe up from the bottom of the screen.

Action Center




Expanded Action Center






Customizing the Quick Actions

To customize the action center:

1. From the Action Center, select  **All Settings** > **System** > **Notifications & actions**.
2. Touch the quick action you want to change.
3. Select a new app from the list.














Changing Notification Behaviors

If you want to keep notifications hidden when the screen is locked:

1. From the Action Center, select  **All Settings > System > Notifications & actions**.
2. Turn any of the following settings Off  to limit access or hide notifications. By default, these settings are On .
 - Show notifications in action center when my phone is locked.
 - Show notification on the lock screen.
 - Show and sound alarms and reminders when my phone is locked.

You can also set how and when specific apps show notifications. For more information, see [Changing App Specific Notifications](#) on page 5-3.

Common Status and Notification Icons

Icon	Meaning	Icon	Meaning
<i>Note: Status and notification icons are hardware and software dependent. Some of the icons listed below may not be relevant for your Dolphin model.</i>			
	An app or service is using terminal location information.		Sound is turned Off.
	New notification in the Action Center.		Vibrate mode is turned On.
	Wi-Fi is turned On, there is an active Wi-Fi network connection and the signal strength is strong.		Battery charge level left on the battery.
	Wi-Fi is turned On, there is an active Wi-Fi network connection but the signal strength is weak.		Battery saver mode is turned On.
	Data is being transferred over the Wi-Fi network connection.		Terminal is connected to external power. When the battery is charging the battery charge and external power icons toggle off and on.
	Bluetooth is turned On, the terminal is paired to another device with Bluetooth technology and the connection between terminal and paired device is active.		Airplane mode is turned On.
	Terminal is connected to a Virtual Private Network (VPN).		



Note: To view details about the status of the WLAN (Wi-Fi) and Bluetooth radio connections, swipe down from the top of the screen to expand the Action Center.

About Cortana Voice Assistant

Cortana is your personal assistant app that makes daily tasks easier and faster by using voice commands, simple questions, and quick screen input. Here are some of the things **Cortana** can help you with:

- Send an e-mail or message.
- Schedule a meeting.
- Set a reminders for an important tasks or events.
- Check your location, get directions.
- Get up-to-date traffic and weather info.

To get started with **Cortana** you need an active Wi-Fi connection and a Microsoft account.

Press the **Search** button  or the touch the **Cortana** tile on the **Start**  screen.

This feature is not available in all languages or regions. For information on how to use **Cortana** or to view information on availability, go to <http://windows.microsoft.com/support>. If you do not want to use **Cortana** or it is not available in your country or region, you can still use the **Speech** functionality on your the terminal to input search criteria.

Turning Cortana Off

To turn Cortana On or Off:

1. Press the **Search** button .
2. Touch .
3. Select **Notebook > Settings**.
4. Turn Cortana Off  and restart the terminal.

Using Speech

If Cortana is turned off or unavailable in your region, you can still use **Speech** to input search criteria.

When you use the Microsoft speech recognition service, the words you speak and the supporting data are sent to Microsoft to provide and improve the service. An active Internet connection is required and the “Get to know me” option under the Privacy settings must be turned On.

To learn about turning on and adjusting the Speech feature, see [Configuring the Speech Feature](#) on page 5-12.

To start a search in the **Bing** browser:









1. Press the **Search**  button to open the browser.
2. Select **Search the web and Windows**.
3. Touch the voice icon .

Listening ... appears next to the icon when Speech is active and ready for a voice command.

4. Say what want to type in the search box.
5. Select from the preliminary search results or touch return on the keyboard to see more.

Navigation/Function Buttons

The Dolphin terminal has seven navigation/function buttons.

Button		Function
	Back	Return to the previous screen or press and hold to open the App switcher.
	Administrator or Developer Defined	By default, no function is assigned to this button. For information on advanced tools and resources for IT professionals, go to https://technet.microsoft.com .
	Scan	Wake the terminal from Sleep mode. Trigger the scanner/imager.
	Search	If Cortana is turned Off, press to search the terminal and Web using Bing . If Cortana is turned On, press to ask a question or initiate a voice command. To learn more about Cortana, go to www.windowsphone.com .
	Start	Return to the Start screen.
	Right & Left Side	Trigger the scanner/imager.
	Volume	Press to raise or lower the volume of the active speaker. The status bar briefly expands when you press either the volume up or down button. Use the slider to adjust the volume for the Ringer + Notifications or touch the down arrow  to access the volume adjustment for Media and apps.

Virtual Keyboard

The virtual keyboard appears when you open an application or select a field that requires text or numerical input. The content of the keyboard may vary depending on the application in use and the input field requirements.


Using the Virtual Keyboard

During text input, you may need to switch between keyboard modes to access additional character sets (e.g., function keys, symbols, and numbers). Each keyboard mode, includes navigation keys, which allow you to quickly switch between modes. Touch the **abc** key to switch to the Qwerty Mode, and the **&123** key to switch to the Numeric Mode. Touch and hold the **period** “.” key to access additional symbols (e.g., dash “-”, exclamation point “!”, question mark “?”, colon “:”) and 😊 for emoticons.


See [Time and Language Settings](#) on page 5-11 for additional information on configuring keyboard & input methods.

Note: The content of the keyboard and the mode initially displayed may vary depending on the application in use and the input field requirements.

Turning Power On/Off

To turn the terminal On, press and release the **Power** button .

To turn the terminal Off:


1. Press and hold the **Power** button .
2. When the message, “slide down to power off” appears, release the button and swipe down toward the bottom of the screen.


You should always power off the terminal before removing the battery. For information on removing the battery, see [Replacing the Battery](#).

Turning Sleep Mode (Suspend Mode) On/Off


To save battery power, the touch panel display dims, and then turns off after a period of inactivity. If the display stays off longer than the set time limit, the terminal enters sleep mode.

To wake the terminal from sleep mode and unlock the screen:

1. Press and release the **Power** button .
2. Swipe up from the bottom of the screen to unlock the terminal.

To manually place the unit in **Sleep** mode, press and release the **Power** button .

To adjust the time out limits:


1. Touch **Settings**  on the Apps list screen.
2. Do one of the following:
 - Select **Extras > sensor settings** to adjust the time out limit for when the touch panel dims and turns off after a period of inactivity.
 - Select **Personalization > lock screen** to adjust the display lock (Sleep) time out limit.

Turning Airplane Mode On/Off

Turn **Airplane mode** on to quickly disable all the terminal radios that transmit voice or data.

Note: While in Airplane mode, you can still turn the Wi-Fi or Bluetooth radio back On.

To toggle Airplane Mode On or Off.

1. Swipe down from the top of the touch screen to open the action center.
2. Select **Expand**.
3. Touch **Airplane mode** to toggle the mode On or Off. When Airplane Mode is turned on,  shows on the status bar.

Replacing the Battery

Before replacing the battery, read the [Guidelines for Battery Pack Use and Disposal](#) on page 2-13. For battery replacement part numbers, see [Replacement Battery Specifications](#) on page 2-9.



RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. The battery should be disposed of by a qualified re-cycler or hazardous materials handler. Do not incinerate the battery or dispose of the battery with general waste materials.

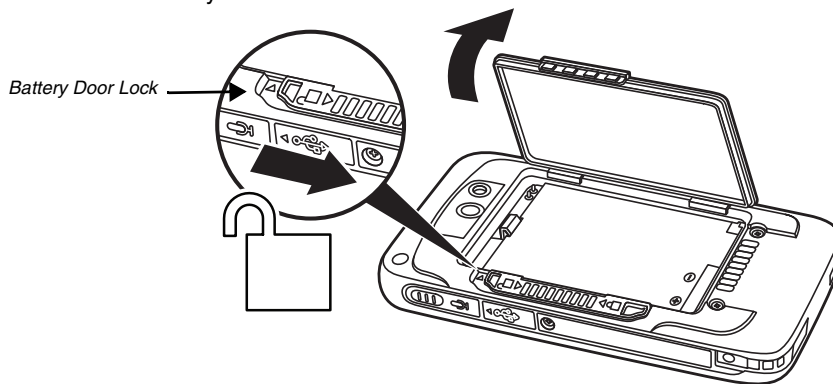
Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.

We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

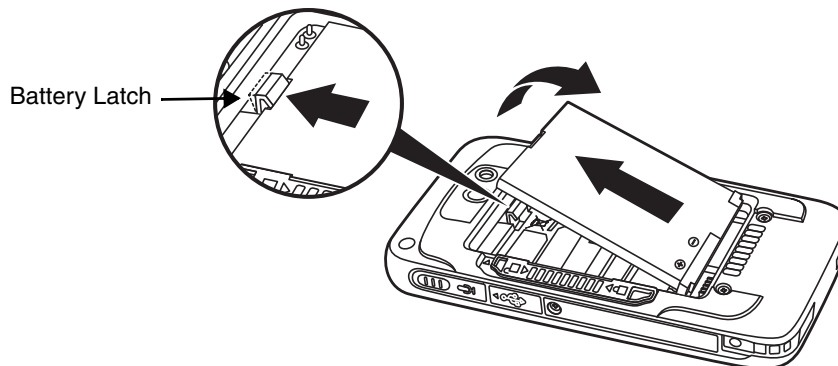
The following illustrations depict a standard battery with a standard battery door; however, battery removal and installation procedures are the same for the extended battery and extended battery door.

To replace the battery:

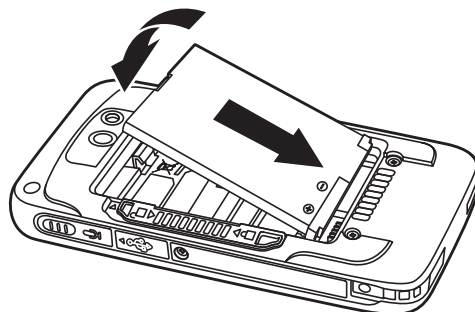
1. Power Off the terminal.
2. Unlock and remove the battery door.




3. Pull the battery latch back and remove the battery.



-
4. Insert the new battery and install the battery door.




5. Apply pressure to the edges of the battery door to ensure the door is properly closed. Engage the door lock.
6. Press the **Power** button .


Important: All battery and connector doors must be present, undamaged, and properly closed to maintain the environmental rating of the terminal.

Restarting the Terminal

You may need to restart the terminal to correct conditions where an application stops responding to the system or the terminal seems to be locked up.

- Press and hold the **Power** button . When the message, “slide down to power off” appears, release the button and swipe down toward the bottom of the screen. Press the **Power** button to turn the terminal back on.

To perform a restart if the touch panel display is unresponsive:

- Press and hold the **Power**  button down for approximately 13 seconds. The terminal automatically restarts.

Resetting the Terminal

You may need to perform a **Factory reset (clean boot)** if you are transferring the terminal to a new owner that requires the use of a different Microsoft account and a clean configuration without any of the custom apps, settings, and data you added. A reset may also be required if the terminal has become unresponsive and all other recovery methods have failed. If you are transferring ownership, use **Method 1** (see below) to reset the terminal back to the factory state. If the terminal is unresponsive, use **Method 2** (on page 1-13).


When a reset is performed, all personal content is erased (e.g., emails, pictures, contacts) and all factory default settings are restored on the terminal. The reset discards any account information you added, including your Microsoft account information. Only installed Microsoft over-the-air (OTA) updates persist after a reset is performed.



Caution: A **Factory Reset (Clean Boot)** erases the memory in the terminal, including all applications and data files, with the exception of those found in the removable storage. Any custom provisioning must be reimplemented after a Factory Reset.

Method 1

To perform a **Factory Reset (Clean Boot)**:

1. Touch **Settings**  on the **Apps list** screen.
2. Touch **System** > **About**.
3. Select **Reset your phone**.
4. If you want to **Also erase SD card**, touch the box to select the option.

5. If you want to **Also remove provisioned content from my workplace**, touch the box to select the option.
6. Touch **Yes**, and then **Yes** again to confirm restoring the factory settings.


Once the terminal resets, the language selection screen appears. For more information, see [Complete the First Time Consumer Setup](#) on page 1-4.

Method 2

To perform a **Factory Reset** if your touchscreen is unresponsive and all other recovery methods have failed:

1. Press and hold the **Volume Down**  and **Power**  buttons simultaneously until a large exclamation mark appears on the screen.

Note: Continue to hold the buttons down until the exclamation mark appears even if the Microsoft Feedback app tries to load.

2. Press the following buttons in this order: **Volume Up**  > **Volume Down**  > **Power**  > **Volume Down** .

Once the terminal resets, the language selection screen appears. For more information, see [Complete the First Time Consumer Setup](#) on page 1-4.

Connecting the Terminal to a Computer (PC) via a USB Connection

You can transfer files (e.g., pictures, music, and videos) between your computer and the terminal using the supplied USB Charge/Communication cable or a Dolphin 70e Black HomeBase with a standard USB cable.

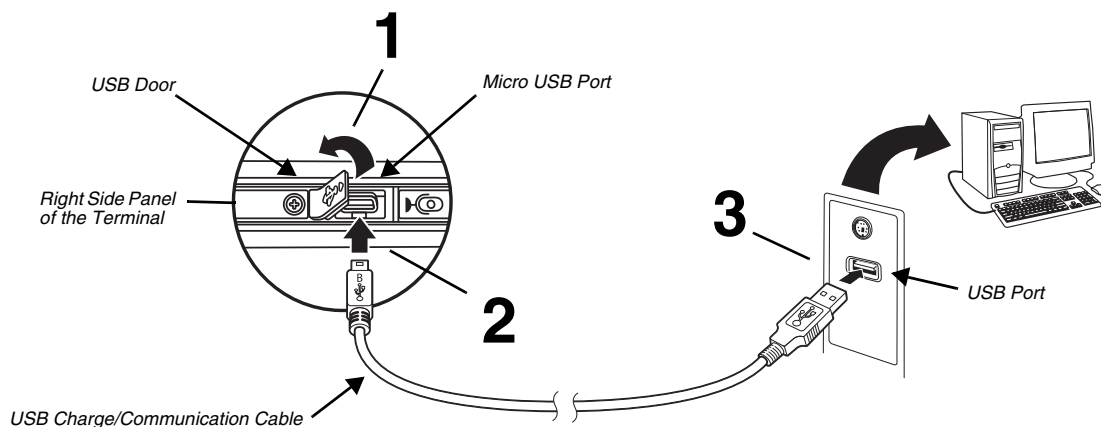
Note: The terminal supports Hi-Speed USB communication (USB 2.0) with a maximum data transfer rate of 480 Mbps.

Using the Windows Phone App to Connect

1. Connect the terminal to the PC using the USB charge/communication cable supplied.
2. If you have a computer running Windows® 10, open the Phone Companion app from **Start > All apps**.

If you have a computer running Windows 8 or Windows 8.1, the Windows Phone® app automatically opens when you connect the terminal to the computer using the USB charge/communication cable supplied.

If you have a computer running Windows 7 or Mac, go to www.windowsphone.com to download and install the Windows Phone app for desktop or Mac.



3. In the Phone Companion app, select Windows as your terminal platform, and then set your sync preferences.




In the Windows Phone app, set your phone name and sync preferences. You can always modify your preferences later by selecting Settings.

Using File Explorer or Windows Explorer to Transfer Files

To move files between your Dolphin terminal and PC without using the app:

1. Connect the terminal to the PC using the USB charge/communication cable supplied.
2. Depending on the Windows operating system either open **File Explorer** or **Windows Explorer**.
3. Under **Computer**, click on **Windows Phone > Phone**.
4. You can now copy, delete and/or move files or folders between the computer and the terminal or a microSD card installed in the terminal as you would with any other storage drive (e.g., cut and paste or drag and drop).

Changing USB Permissions and Notifications

1. In the **Apps list**, touch **Settings** .
2. Touch **Devices > USB**.
3. Select the options you want to turn On  or Off .
 - Ask me before allowing other PCs to connect to my mobile device using USB.
 - Notify me if my mobile device is charging slowly over USB.

The Dolphin 75e should only be connected via its microUSB connector to CTIA certified adapters, products that bear the USB-IF logo or products that have completed, the USB-IF compliance program.

Hardware Overview

Standard Configuration for the Dolphin 75e

WLAN, WPAN, NFC & Camera

- Windows 10 IoT Mobile Enterprise
- Qualcomm APQ8074AB Processor
- 2GB RAM X 16GB Flash
- 3.7V Li-ion rechargeable standard or extended battery pack
- Dedicated imager capable of decoding standard 1D and 2D bar code symbologies
- 8.0 megapixel auto focus color camera
- 802.11a/b/g/n/ac and Bluetooth
- Near Field Communication (NFC) support

Peripherals for the Dolphin 75e

Each of the following items is sold separately to enhance the capabilities of your Dolphin terminal. Dolphin 70e Black peripherals are compatible with Dolphin 75e terminals.

Dolphin 70e Black HomeBase (Model 70e-HB)

The HomeBase is a charging and communication cradle equipped with a USB host port that is Hi-Speed 2.0v compliant, which enables the terminal to interface with the majority of PC-based enterprise systems. This device also contains an auxiliary battery well that charges a spare Honeywell standard or extended battery pack.

For more information, see [Dolphin 70e Black HomeBase \(Model 70e-HB\)](#) on page 8-1.

Dolphin 70e Black eBase (Model 70e-EHB)

The Ethernet Base (eBase) enables a single Dolphin 75e terminal to communicate with a host device over an Ethernet network. In addition, the ebase is equipped with a USB host port that is Hi-Speed 2.0v compliant, which enables the terminal to interface with the majority of PC-based enterprise systems. This device also contains an auxiliary battery well that charges a spare Honeywell standard or extended battery pack.

For more information, see [Dolphin 70e Black eBase \(Model 70e-EHB\)](#) on page 9-1.

Dolphin 70e Black Mobile Base (Model 70e-MB)

The Mobile Base is a charging cradle designed specifically for in-premise and in-transit data collection applications. It features a flexible mounting bracket, an integrated speaker with volume control, and a cigarette lighter adapter to adapt it to your mobile environment.

For more information, see [Dolphin 70e Black Mobile Base \(Model 70e-MB\)](#) on page 10-1.

Dolphin 70e Black ChargeBase (Model 70e-CB)

The ChargeBase is a 4-slot charging cradle that holds, powers, and charges terminals.

For more information, see [Dolphin 70e Black ChargeBase \(Model 70e-CB\)](#) on page 11-1.

Dolphin 70e Black Net Base (Model 70e-NB)

The Net Base enables up to four Dolphin 75e terminals to communicate with a host device over an Ethernet network. In addition, the Net Base provides a second RJ45 Ethernet port for connection to an additional device such as a printer, workstation, eBase, or another Net Base.

For more information, see [Dolphin 70e Black Net Base \(Model 70e-NB\)](#) on page 12-1.

QuadCharger (Model COMMON-QC)

The QuadCharger is a compact 4-slot battery charging station designed for use with Dolphin 75e 3.7V Li-ion rechargeable batteries. For additional information on the common QuadCharger, visit the Dolphin 75e product page at www.honeywellaidc.com or contact your local sales representative.

Accessories for the Dolphin 75e

Each of the following items is sold separately to enhance your terminal's capabilities.

Note: When using accessories where the terminal is worn on the body, the terminal's touch panel must face away from the body.

Dolphin 70e Black Mobile Charger (Model 70e-MC)

The Mobile Charger is a charging cable that connects the terminal directly to a 12 Volt DC power source, such as a cigarette lighter port inside a vehicle, eliminating the need for a cradle. Intelligent battery technology on-board the terminal ensures proper charging. The Mobile Charger is an ideal low-cost charging solution for in-transit mobile applications.

USB Charge/Communication Cable Adapter Kit (Model 70e-USB ADAPTERKIT)

The Dolphin USB charge/communication cable adapter kit is an all-in-one solution for charging and communication. Use the 70e-USB cable in conjunction with the included power supply adapter and plug adapter to charge the terminal from a power outlet or connect the cable to a high-power USB port to charge from a host device. The 70e-USB cable also supports communication with a computer without the need for a cradle. See [Connecting the Terminal to a Computer \(PC\) via a USB Connection](#) on page 1-13.

Holsters (Model HOLSTER-2 and 6000-HOLSTER)

A holster provides convenient storage for the Dolphin 75e terminal in mobile environments. Long and short holster models with integrated belt clips and spare battery pouches are available.

Wrist Lanyard (Model SL-LANYARD-1)

The black wrist lanyard attaches to the bottom corner of the terminal providing additional security from accidental drop during terminal use.

Stylus (Model 75e-Stylus)

The stylus has a special tip for added accuracy and ease when operating the touch panel. The tether is a coiled, elastic cord, which secures the stylus to the terminal to prevent accidental loss. The stylus may be ordered with or without the tether.

Battery Door Kits

Replacement battery door kits are available for both standard and extended battery door types. See [Important Battery and Battery Door Replacement Guidelines](#) on page 2-9 before ordering battery door kits for your terminal.

Battery (Models 70e-BTSC and 70e-BTEC)

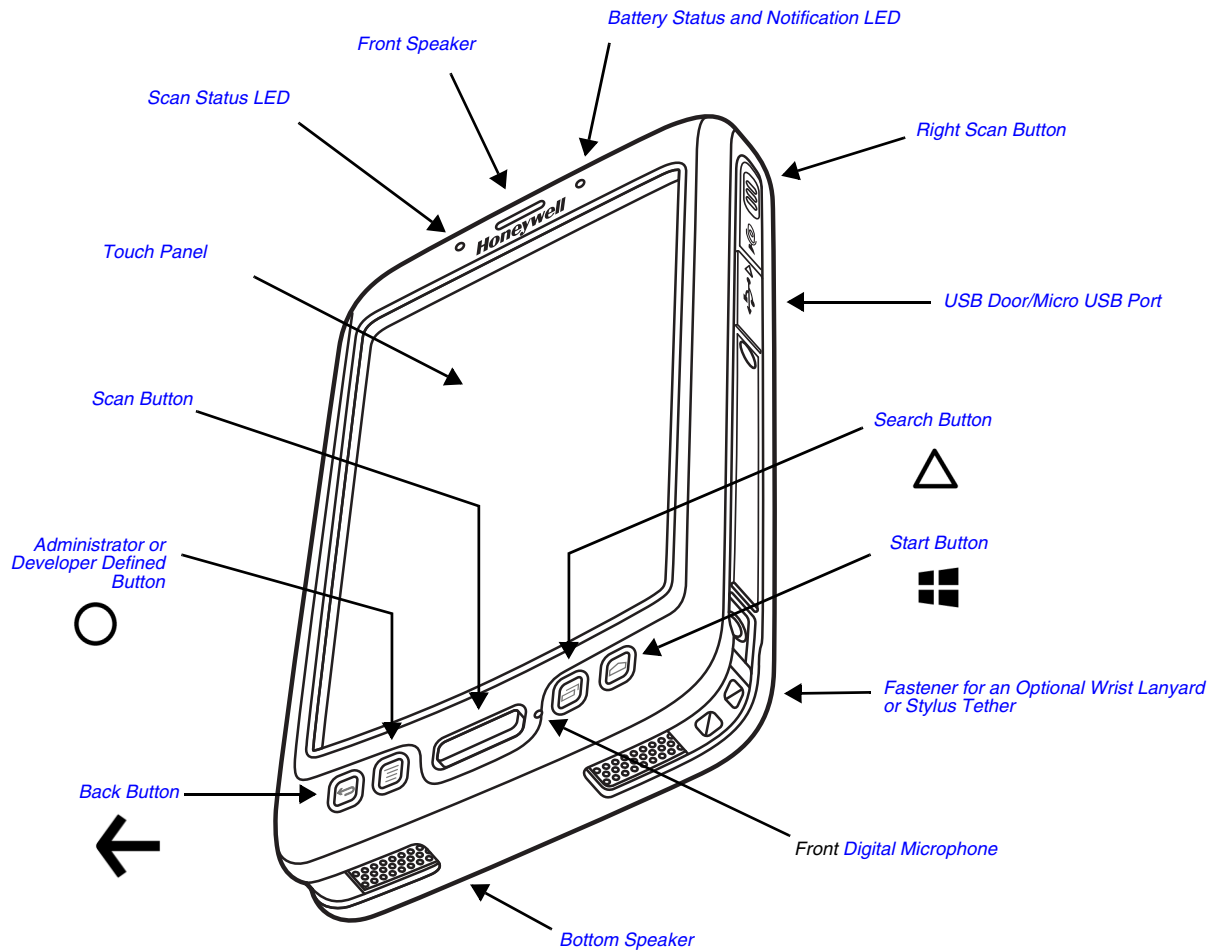
The 3.7V Li-ion rechargeable battery provides the main power for the terminal. See [Battery](#) on page 2-8 for battery specifications, replacement part numbers, and guidelines for use and disposal.

Protective Rubber Boot (Model 70e-BOOT)

Protective Black Rubber Enclosure provides added protection.

Features of the Dolphin 75e


Front, Bottom, and Right Panels



For a description of each callout, [see page 2-4](#).

Feature Descriptions: Front, Bottom, and Right Panels

Back Button

The **Back**  button returns you to the previous screen. When you press and hold the Back button, the App switcher opens allowing you to view and switch between recently used apps.

Bottom Speaker

The integrated bottom speaker sounds audio signals as you scan bar code labels and enter data. The integrated speaker also supports playback of wave and MP3 files, software mixer, and speaker phone for VoIP audio.

Digital Microphone

The integrated digital microphone, located on the front of the terminal provide audio input for handset VoIP calls when a headset is not plugged into the [Audio Jack](#) (see page 2-7). When a headset is plugged into the Audio Jack, the terminal defaults to the microphone on the headset. By default, the front microphone is also used for speaker phone VoIP calls, voice command audio input, and recording sound.

Front Speaker

The front speaker is the receiver for handset VoIP calls.

Fastener for an Optional Wrist Lanyard or Stylus Tether


The fastener provides access for attaching an optional wrist lanyard or stylus tether.

Battery Status and Notification LED


The light emitting diode (LED) located above and to the right of the display panel indicates the battery charge status. The LED also illuminates briefly during power up and a reboot. For detailed information on settings and meanings, see [Understanding the Battery Charge Status LED Indicator](#) on page 2-10.

The LED may also flash blue if the notifications setting has been turned on for select applications. To learn how to change app notification settings, see [Changing App Specific Notifications](#) on page 5-3.

Start Button

The **Start**  button returns you to the Start screen, see page 1-9.


Administrator or Developer Defined Button

By default this button  is left unassigned (open) for advanced administrator and developer customization. To learn more about Microsoft advanced tools and resources for IT professionals, go to <https://technet.microsoft.com>.

Right Scan Button

The right button triggers the scanner/imager.

Search Button

The **Search**  button functions differently depending on your **Cortana** or **Speech** settings. If Cortana is turned Off, press the button to search the terminal and Web using the **Bing** browser. If **Cortana** is turned On, press to ask a question or initiate a voice command. To learn how to turn Cortana On or Off, see [About Cortana Voice Assistant](#) on page 1-8.

Scan Button

The Scan button functions as a system wake-up control if the terminal has entered Sleep mode (Suspend mode). The button also triggers the scanner/imager.

Touch Panel

The color 4.3 inch WVGA (480 x 800 resolution) multi-touch capacitive touch panel is covered with an industrial protective lens for greater durability. The touch panel can be activated with a finger or with the optional stylus.

Note: To conserve battery power the touch screen dims and then turns off after a period of no activity. Press the **Power** button to wake the terminal from Sleep Mode (Suspend mode). See [Managing Security and Customizing the Screen Lock](#) on page 5-2 for information on how to adjust sleep (timeout) settings.

USB Door/Micro USB Port

The micro USB port is located under the protective USB door on the right side of the terminal. To access the micro USB port, gently lift the top edge of the door closest to the side scan button.

The micro USB port in conjunction with the USB Charge/Communication Cable Adapter Kit powers the terminal, charges the main battery and facilitates communication. The micro USB port supports low, full, and high-speed USB v2.0 client communication with a maximum rate of 480 Mbps.

For additional information, see [Using the USB Charge/Communication Cable \(Model 70e-USB ADAPTERKIT\)](#) on page 1-3, and [Connecting the Terminal to a Computer \(PC\) via a USB Connection](#) on page 1-13.

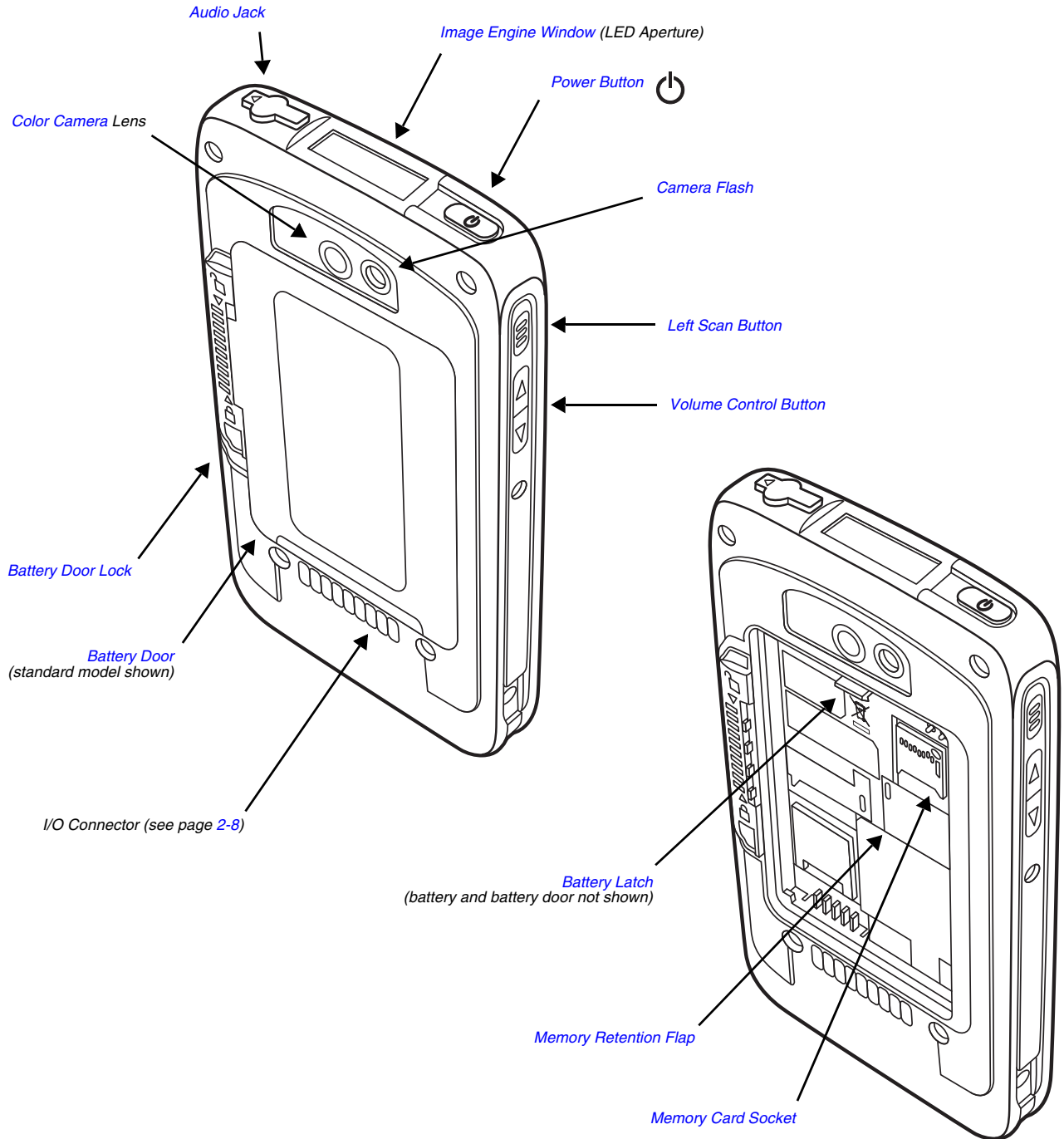
The Dolphin 75e should only be connected via its microUSB connector to CTIA certified adapters, products that bear the USB-IF logo or products that have completed, the USB-IF compliance program.

Scan Status LED

The light emitting diode (LED) located above and to the left of the LCD display flashes and illuminates during scan/ image capture to provide scan status information. For additional information on the scan engine, see [Using the Scan Image Engine](#) on page 3-1.

Back, Top, and Left Panels

For a description of each callout, see page 2-7.



Feature Descriptions: Back, Top, and Left Panels

Audio Jack

The audio jack is located under the protective door on the top of the terminal. To access the jack gently lift the edge of the door marked with an arrow. The 3.5mm audio jack supports both speaker (stereo) and microphone (mono) headsets.

Battery

The 3.7V Li-ion rechargeable battery provides the main power for the terminal and is protected by the battery door. See [Battery](#) on page 2-8 for battery specifications, replacement part numbers, and guidelines for use and disposal.

Battery Door

The battery door protects the battery and any installed SIM and/or memory cards in the terminal's battery well. Proper installation of the battery door preserves the environmental rating of the terminal. Do not use the terminal without the battery door installed.

Battery Door Lock

The battery door lock secures the battery door to the terminal. Slide the lock down toward the IO contacts to release the lock for battery door removal and battery access. Slide the lock up toward the camera lens to secure the battery door closed and seal the battery in the terminal.

Battery Latch

The battery latch secures the battery in the battery well. Pull the latch away from the battery to release and remove the battery from the terminal. For information on [Replacing the Battery](#), see page 1-11.

Color Camera

The 8.0-Megapixel Resolution color camera provides easy picture and video capture. The camera lens and camera flash are located on the back panel of the terminal.

Camera Flash

The camera flash is located on the back panel of the terminal. When used as a Camera Flash with the integrated color camera, the flash is controlled by the camera application.

Image Engine Window

The image engine reads and decodes linear, stacked linear (e.g., PDF417), and 2D matrix bar code symbologies. The LED aperture for the imaging engine's LED aimer is contained behind this window. For more details, see [Using the Scan Image Engine](#) on page 3-1.

Left Scan Button

The Left button triggers the scanner/imager.

Memory Card Socket


The memory card socket gives you the option to expand the terminal's memory capacity using microSD or microSDHC memory interfaces. The expansion socket is located under the battery door and battery.

When the battery door and battery pack are properly installed, the card is sealed against moisture and particle intrusion, read/write data is stored securely, and the terminal's environmental rating is preserved; see [Installing a Memory Card](#) on page 2-14.

Memory Retention Flap

The retention flap locks the memory card in the socket; see [Installing a Memory Card](#) on page 2-14.


Power Button

The **Power** button , located on the top of the terminal, initiates multiple functions depending on the length of time the button is pressed. For information about how use the button to:

- Turn Power On or Off, see page 1-9.
- Turn Sleep (Suspend Mode) On or Off, see page 1-10.
- Restart the terminal if the touch screen is unresponsive, see page 1-12.

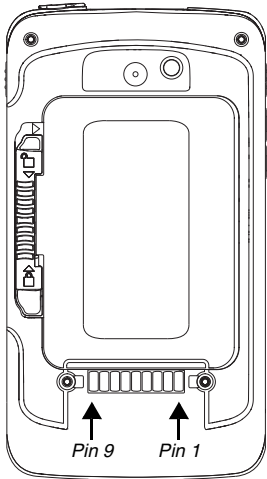
Volume Control Button

Press the top or bottom of the volume button to raise or lower the volume of the active speaker. Lower the volume all the way down to turn off the volume and enable vibration only mode.

The status bar on the touch screen briefly expands when you press either the volume up or down button. Use the slider to adjust the volume for the Ringer + Notifications or touch the down arrow  to access the volume adjustment for Media and apps.

The I/O Connector

The I/O connector powers the terminal, charges the main battery, and facilitates communication. Dolphin 70e Black peripherals are designed to work exclusively with this connector. The I/O connector supports low, full, and high speed USB v2.0 communication with a maximum rate of 480 Mbps.

Pin	Signal	Description	Terminal Back Panel
1	VDC_IN	5V DC input for charging and operation	
2	VBUS_HOST	5V output for USB host and peripheral power	
3	USB_DM_HOST	USB D- for the host port	
4	USB_DP_HOST	USB D+ for the host port	
5	USBC_DET	Multipurpose pin to allow for detection of an unpowered SLED, determine SLED type, and to signal a HomeBase the docking of the terminal.	
6	GND	Ground connection	
7	USB_DN_DOCK	USB D- for the client port	
8	USB_DP_DOCK	USB D+ for the client port	
9	VBUS_DOCK	5V input for USB client (and charging)	

Note: Signals referenced are for a DTE device.

Battery

The primary power source for the Dolphin terminal is the 3.7V Li-ion rechargeable battery located under the battery door on the back panel of the device. Honeywell recommends, you keep the battery in the terminal charged at all times to help prevent data loss. Letting the battery become fully discharged causes the terminal to lose all data in RAM.

Note: All data in RAM is cleared when the battery is removed. Always power off the terminal before removing the battery to ensure any changes made are saved to the flash memory.

Replacement Battery Specifications

Dolphin 75e model terminals are designed for use with battery part numbers BAT-STANDARD-02 (Li-ion 3.7V, 6.179 watt hour) and BAT-EXTENDED-02 (Li-ion 3.7V, 12.358 watt hour) manufactured for Honeywell International Inc. For information on how to replace the battery, see page 1-11.

Important Battery and Battery Door Replacement Guidelines

Follow the guidelines listed below when ordering batteries and/or battery doors.

- Size (e.g., standard or extended): The battery and battery door must be the same size.
- Type (e.g., locking or non-locking): Dolphin 75e models are only compatible locking type battery doors.
- Near Field Communication (NFC) requirements: Use only NFC compatible battery doors with NFC equipped Dolphin models identified with the letter N at the end of the model number (e.g., 75exx**N**).



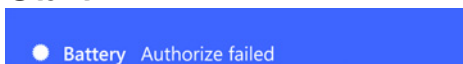
We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

Important: All battery and connector doors must be present, undamaged, and properly closed to maintain the environmental rating of the terminal.

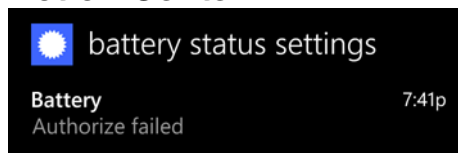
Battery Authorize Failed

If a “Battery Authorize failed” notification appears, replace the battery with a qualified Honeywell Li-ion battery pack. The battery does not charge if authentication fails.

Start



Action Center



Charging Options

Dolphin 75e terminals ship with the battery significantly discharged of power. Before using a terminal for the first time, charge the battery with a Dolphin charging device for a minimum of **4 hours** for the standard battery and **6 hours** for the extended battery.

When using the 70e-USB Charge/Communication cable to charge from a 500mA USB port on a host device, charge the battery for a minimum of **6 hours** for the standard battery and **8 hours** for the extended battery.

Use one of the following chargers when the main battery is installed in the terminal:

- [Dolphin 70e Black HomeBase \(Model 70e-HB\)](#), see page 8-1
- [Dolphin 70e Black eBase \(Model 70e-EHB\)](#), see page 9-1
- [Dolphin 70e Black Mobile Base \(Model 70e-MB\)](#), see page 10-1
- [Dolphin 70e Black ChargeBase \(Model 70e-CB\)](#), see page 11-1
- [Dolphin 70e Black Net Base \(Model 70e-NB\)](#), see page 12-1
- Dolphin 70e USB Charge/Communication Cable (Model 70e-USB ADAPTERKIT) included with terminal, [see page 1-13](#)

To charge the battery when it is not installed in the terminal:

- Place the battery pack in the [Auxiliary Battery Well](#) of the [Dolphin 70e Black HomeBase \(Model 70e-HB\)](#) or the [Dolphin 70e Black eBase \(Model 70e-EHB\)](#).
- Insert the battery in the QuadCharger (Model COMMON-QC), [see page 2-1](#).

Charging Times

Charging Peripheral/Accessory	Model: 70e-BTSC	Model: 70e-BTEC
	BAT-STANDARD-02	BAT-EXTENDED-02
HomeBase (Model 70e-HB)	4 hours	6 hours
eBase (Model 70e-EHB)	4 hours	6 hours
ChargeBase (Model 70e-CB)	4 hours	6 hours
Net Base (Model 70e-NB)	4 hours	6 hours
Mobile Base (Model 70e-MB)	4 hours	6 hours
Mobile Charger (Model 70e-MC)	4 hours	6 hours
USB Charge/Communication Cable with provided power supply (Model 70e-USB ADAPTERKIT)	4 hours	6 hours
USB Charge/Communication Cable (Model 70e-USB) connected to a workstation (PC) 500mA USB port	6 hours	8 hours
QuadCharger (Model COMMON-QC)	4 hours	6 hours

Understanding the Battery Charge Status LED Indicator

The activity of the Battery Charge Status LED provides feedback about the charge level and charging status of the battery in the terminal.

Terminal is Connected Charger	LED Illumination	Battery Charge Level
No	Blinking Red	Battery level is below 15%
No	Off	Battery level is 15% or more
Yes	Steady Amber	Battery level is between 0% and 60%
Yes	Blinking Green	Battery level is between 61% and 95%
Yes	Steady Green	Battery level is above 95%
Either	Blinking Red	Battery error

Important Charging Guidelines

Source Current Specifications


Battery charging times can be significantly lengthened or charging may not occur if the terminal is drawing more current than is supplied by the charging peripheral (e.g., HomeBase, eBase, Mobile Base, or ChargeBase), USB wall charger, or USB Host (e.g., workstation PC).



- The maximum current supplied through a charging peripheral is 2.0A.
- The maximum current supplied by the USB wall charger is 900mA.
- The maximum current supplied by a USB Host can vary from 100mA to 500mA. Do not attempt to charge the terminal from a 100mA source. An active Dolphin terminal uses more current than supplied by a 100mA source causing the terminal to continue to draw power from the battery.

*Note: Placing the terminal in **Sleep Mode** (Suspend mode) while charging reduces the current draw of the terminal and shortens the charging time of the battery.*

On **Start** , swipe left to view the **App list**. Select **Settings**  > **Devices** > **USB**. Turn On “Notify me if my mobile device is charging slowly over USB”.


Charging a Severely Low or Completely Discharged Battery

The terminal powers off if the battery charge goes below 5%. If you press the power button and a low battery image  briefly appears on the screen but the unit does not start, the battery charge is too low to boot. Connect the terminal to an AC power source for charging. When you first connect the terminal to the charger, the battery charge

status LED on the terminal briefly turns red, then Off and back On to a steady amber. As the battery charge reaches approximately 2%, the a battery charging icon temporarily appears and flashes from  to  on the terminal screen. Once the battery reaches a safe charge threshold (approximately 7%), the terminal starts to boot. The length of time before the battery reaches a safe charge threshold varies depending on the extent of the battery discharge.

Note: If you are charging the terminal from a USB host device (PC) using the USB Charge/Communication Cable, the length of time before the battery reaches a safe charge threshold varies depending on the extent of the initial battery discharge level and the current supplied by the USB charging source. Inadequate source current may interfere with effective battery charging.

Checking the Battery Health

On the **Settings**  screen, select **Extras > battery status settings** for battery health information. Swipe left or right on the touch screen to scroll between the battery state, battery log and about battery screens.

Viewing the Battery State

On the **battery state** screen, you can view statistics about the battery including the:

- Battery life percent—This statistic indicates the percentage of charge left on the battery.
- Time to empty
- Voltage
- Current
- Temperature
- State of Health—This battery health percentage provides an indication of the recharging life left on the battery. A Li-ion battery can be recharged many times but the battery life is still limited.
- Cycle count
- Serial Number


To conserve battery power and view app power consumption statistics, see [Checking Battery Power and Monitoring Battery Power Use](#) on page 2-12.

Turning on the Battery Log

When the battery log feature is enabled, battery state related events and statistics are logged and displayed on the screen. The default logging interval is 5 minutes but can be changed to 10 minutes, 15 minutes, 30 minutes, or 60 minutes. The first three fields note the date, time and event type. Additional information logged is determined by the event type. Events include:

- TIME LOG
- BATT REMOVAL (when AC is connected)
- BATT PRESENT
- BATT CHANGE
- BATT CRITICAL
- BATT FULL
- POWER ON LINE (for external VDC_IN)
- POWER USB DCP (for a dedicated charger connected)
- POWER USB FULL (for 500mA USB client connection)
- POWER USB LIMITED (for a USB power source is present but only available at 100m)

To enable the logging feature:

1. Swipe left from the **battery state** screen to view the **battery log** screen.
2. Touch the box next to **Enable Log** to turn On the battery Time log feature. By default, the battery **Time log** setting is turned Off (no check in the box).
3. Select the **Interval Time** (minutes) for logging events. As events are logged, they appear on the screen.
4. Select  to save your settings.

Managing Battery Power

Letting the battery become fully discharged causes the terminal to lose all data in RAM. Honeywell recommends, you keep a charged battery in the terminal at all times to help prevent data loss. Removing the battery from the terminal erases all non-persistent memory.

When the terminal is running on battery power (as opposed to external power), warnings are displayed when the battery reaches critical and low battery points.

Checking Battery Power and Monitoring Battery Power Use

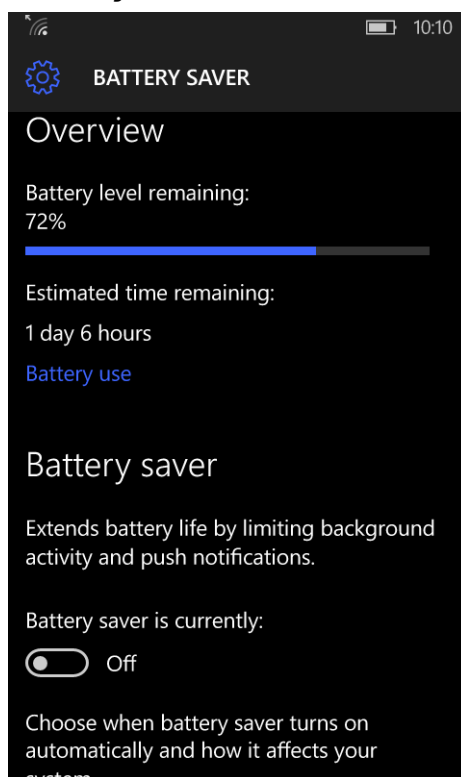
To view battery statistics about the battery charge:

1. Select **Settings** on the **App list**.
2. Touch **System** > **Battery saver**.

The Overview provides the battery charge level (%) and a remaining time estimate. If the terminal is connected to an external power source, the charge status is shown with an estimated time to a full charge.

Touch **Battery use** to view and adjust how individual apps consume the battery power (see page 2-13).


Battery Saver



Saving Battery Power by Turning Off All Nonessential Features and Background Tasks

To conserve battery power, you can enable the **Battery saver** to turn off all nonessential features and tasks that run in the background consuming battery power. This includes but is not limited to automatic updates to your email, calendar, and some Live Tiles that use a push notification for updates.


To temporarily enable the Battery saver:

1. Select **Settings** > **System** > **Battery saver**.
2. Turn **On**  the Battery saver feature. The saver stays on until the next time you charge the terminal. Once a charge cycle is initiated, the terminal switches back to normal battery usage.

To set the battery saver to automatically turn on:



1. Scroll down to the bottom of the Battery saver screen and select **Battery saver settings**.
2. Check the box to automatically turn the battery saver on if the charge level drops below a set percentage.
3. Use the slider to set the battery level percentage.

To define apps you want to keep exempt from the Battery saver restrictions:

1. Select **Battery saver settings**.
2. Touch  to add an app.
3. Select the app to exclude from the battery saver restrictions. Adding apps reduces the efficiency of the Battery Saver.

Limiting Background Usage for a Specific Application

If you only want to adjust how a specific app consumes battery power by running in the background:

1. Select **Settings > System > Battery saver**.
2. Touch **Battery use**.
3. Select **Change background app settings**.
4. Select the On  or Off  toggle box to set background permission for the app.

Disabling the Button Backlights and Enabling the Smart Sensors to Conserve Power

To learn how to reduce power consumption by turning off the backlight on the terminal buttons, see [Changing the Button Illumination Settings](#) on page 5-16.

To learn about configuring the integrated motion detection sensors for advanced power management, see [Modifying the Sensor Settings](#) on page 5-16.

Storing Batteries

To maintain top performance from batteries, avoid storing batteries outside of the following temperature ranges:

- 14°F to 113°F (-10°C to +45°C) for short term storage of less than one month
- 32°F to 86°F (-0°C to +30°C) for long term storage

Do not store batteries in extremely high humidity. For prolonged storage, do not keep batteries stored in a charger that is connected to a power source.

Guidelines for Battery Pack Use and Disposal

The following are general guidelines for the safe use and disposal of batteries:

- Do not disassemble or open crush, bend or deform, puncture or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.
- Improper battery use may result in a fire, explosion or other hazard.
- We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may pose a personal hazard to the user.
- Only use the battery for the system for which it is specified. Do not use a battery in any other manner outside its intended use in Dolphin terminals and peripherals.
- Only use the battery with a charging system that has been qualified with the system per standard IEEE-Std-1725-2006. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725-2006. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.
- Replace defective batteries immediately; using a defective battery could damage the Dolphin terminal.
- Never throw a used battery in the trash. Promptly dispose of used batteries in accordance with local regulations.
- Do not short-circuit a battery or throw it into a fire; it can explode and cause severe personal injury. Do not allow metallic conductive objects to contact battery terminals.

-
- If you observe that the Honeywell battery supplied is physically damaged, please send it to Honeywell International Inc. or an authorized service center for inspection, see [Customer Support](#).
 - Battery usage by children should be supervised.
 - Avoid dropping the terminal or battery. If the terminal or battery is dropped, especially on a hard surface, and the user suspects damage, send it to a Honeywell International Inc. or an authorized service center for inspection.
 - If you are not sure the battery or charger is working properly, send it to Honeywell International Inc. or an authorized service center for inspection, see [Customer Support](#).
 - Excessive discharge can degrade battery performance. Recharge the battery when your terminal indicates low battery power.
 - Although your battery can be recharged many times, the battery life is limited. Replace it after the battery is unable to hold an adequate charge.

System Resets

See [Resetting the Terminal](#) on page 1-12.

Hardware Maintenance

When needed, clean the image engine window and the touch screen with a clean, non-abrasive, lint-free cloth. The terminal can be cleaned with a damp cloth.

Important: All battery and connector doors must be present, undamaged, and properly closed to maintain the environmental rating of the terminal.

Installing a Memory Card

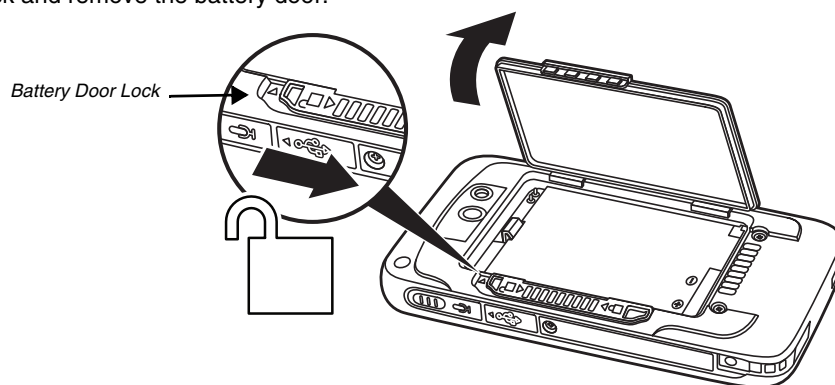
You can expand the terminal's memory capacity by installing a microSD or microSDHC card. Honeywell recommends the use of Single Level Cell (SLC) industrial grade microSD or microSDHC memory cards with Dolphin terminals for maximum performance and durability. Contact a Honeywell sales representative for additional information on qualified memory card options.

Note: Format memory card before initial use.

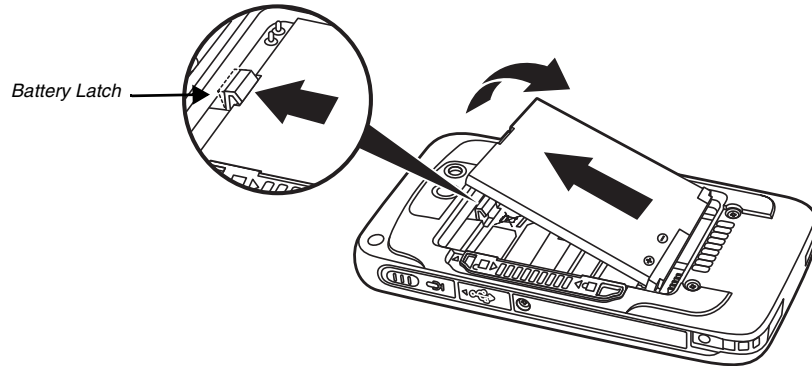
Installation and/or Replacement

To install a memory card:

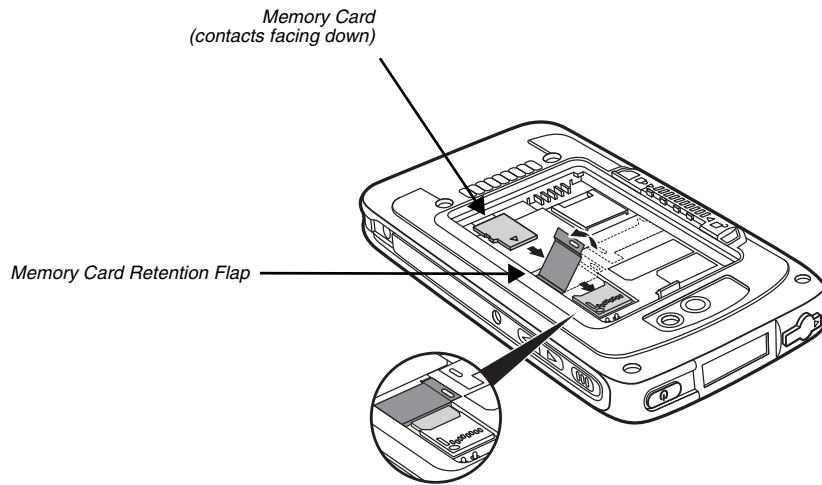
1. **Power Off** the terminal.
2. Unlock and remove the battery door.




-
3. Pull the battery latch back and remove the battery.



4. Lift the card retention flap for the memory socket, slide the card (contacts facing down) into the socket, and then close the retention flap.



5. Install battery and battery door. Apply pressure to the edges of the battery door to ensure the door is properly closed, and then engage the door lock.
6. Press the **Power** button .



Using the Scan Image Engine

Overview

The Dolphin 75e terminal houses a compact scan image engine that instantly reads popular 1D and 2D bar codes and supports omni-directional aiming and decoding for greater flexibility in real-world settings. The scan image engine can also capture black and white digital images, such as signatures and pictures of damaged inventory.

With the latest CMOS-based technology, the engine works like a digital camera and enables black and white digital image capture, signature capture, and reading of OCR characters.



Caution: Do not stare into the imager laser aimer.

Image Engine Specifications

Field of View

Horizontal Field Angle (°) 21.9+/-0.5 degree

Vertical Field Angle (°) 15.9+/-0.5 degree

Depth of Field

The depth of field measurements used the following parameters:

- Distances are measured from the front of the engine.
- +23°C (+73°F), 0 lux
- Photographic quality codes

Symbology	Distance (in/cm) Near	Distance (in/cm) Far	Delta (in/cm)
3 mil C39/128	-	-	-
5 mil C39/128	2.25 (5.7)	4.35 (11.049)	2.1 (5.3)
7.5 mil C39/128	1.25 (3.2)	6.87 (17.4)	5.62 (14.3)
10 mil C39/128	0.67 (1.7)	9.93 (25.2)	9.26 (23.5)
15 mil C39/128	1.01 (2.6)	15.16 (38.5)	14.15 (35.94)
20 mil C39/128	1.80 (4.57)	18.56 (47.14)	16.76 (42.57)
100% 13 mil UPC	1.57 (3.9)	12.18 (30.9)	10.61 (26.9)
5 mil PDF417	-	-	-
6.7 mil PDF417	1.53 (3.8)	4.63 (11.7)	3.1 (7.8)
10 mil PDF417	1.38 (3.5)	7.34 (18.6)	5.96 (15.1)
5 mil microPDF	-	-	-
5 mil DataMatrix	-	-	-
10 mil DataMatrix	1.52 (3.8)	4.87 (12.3)	3.35 (8.5)
20 mil DataMatrix	1.07 (2.7)	9.66 (24.5)	8.59 (21.8)
10 mil QR	1.50 (3.8)	5.13 (13.0)	3.63 (9.2)
20 mil QR	2.48 (6.3)	9.66 (24.5)	7.18 (18.2)
32 mil Maxicode	1.56 (3.9)	13.19 (33.5)	11.63 (29.5)

Supported Bar Code Symbolologies

Symbology Type	Symbology Name
1D Symbolologies	Codabar Code 3 of 9 Code 11 Code 32 Pharmaceutical (PARAF) Code 93 Code 128 EAN with Add-On EAN with Extended Coupon Code EAN-8 EAN-13 GS1-128 GS1 Databar Interleaved 2 or 5 ISBT 128 Matrix 2 of 5 MSI Plessey Telepen Trioptic Code UPC with Add On UPC-A UPC-E
2D Symbolologies	Aztec Codablock A Codablock F Data Matrix GS1 Databar HanXin MaxiCode Micro PDF PDF417 QR Code TLC39
Composite Codes	UPC/EAN UCC/EAN GS1 Databar
OCR	MICR E 13-B OCR-A OCR-B
Postal Codes	Australian Post British Post Canadian Post China Post Japanese Post KIX Post Postnet and most international 4-state codes Planet Code

Decoding

The terminal supports image decoding for use in various bar code reading and imaging applications. Full-area imaging provides omni-directional reading of linear and non-linear 1D and 2D bar codes, OCR, signature capture, and picture taking.

When reading all bar code types using full-area imaging, a positive read can be obtained from many positions; see [Aiming Beam](#) on page 3-6. To achieve the best read, the aiming beam should be centered horizontally across the bar code.

Scan Wedge and POS Modes

Dolphin 75e models running Windows 10 IoT Mobile Enterprise have two scan modes, Wedge mode and POS mode. In Wedge mode, bar code data is inserted into the keyboard interface, as if the bar code data was entered using the keyboard. POS mode implements the Microsoft Point of Service interface. In POS mode, bar code data is sent to an application via the Microsoft defined APIs.

Scan wedge mode is enabled by default. The 75e remains in wedge mode until a POS application starts and claims the scanner. The terminal only switches back to wedge mode when the POS application releases its claim on the scanner.

Note: Comprehensive API reference information for developing Universal Windows apps for Windows 10 is available from Microsoft at <https://msdn.microsoft.com/library/windows/apps/bg124285.aspx>.

About the HONWedge Profile


Wedge mode enables a default list of symbologies (i.e., UPCA, Code 39, Code 128, GS1128, Aztec, Data Matrix, Maxicode, Pdf417 and QR code). You can enable or disable Symbologies for wedge mode using a profile named **HONWedge**. Profile commands customize scan wedge mode behaviors. Customers set wedge mode configuration commands using an exm file. To learn more about customized profiles, see [Information for Developers](#) on page 3-6.

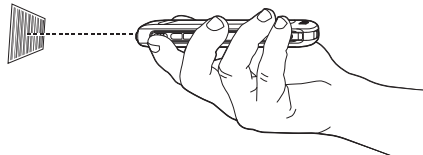
You can use the following **HONWedge** profile commands to modify the scan wedge:

Profile Commands	Description	Default
ENABLE_WEDGE	Controls when bar code data is inserted into the keyboard buffer. While in wedge mode, scanning is disabled and enabled using the ENABLE_WEDGE profile command.	True (enabled)
WEDGE_POWER_TIMEOUT	Use this command to optimize scan performance or to save power. The WEDGE_POWER_TIMEOUT defaults to 30 msec. After 30 seconds of inactivity, the scan acquisition system enters a low power state. Press the scan button to exit the low power state and power up the scan acquisition system. The timeout value is set using the WEDGE_POWER_TIMEOUT profile command. The units are milliseconds.	30 msec
PREAMBLE	Adds a prefix to the start of the bar code data.	
POSTAMBLE	Adds a suffix at the end of the data to bar code data.	
ENTER_DELAY	Inserts a delay between bar codes when wedging the bar code data into the keyboard buffer. A delay of ENTER_DELAY is inserted whenever the Wedge encounters a carriage return, line feed, or tab key. The units for ENTER_DELAY are milliseconds. Some applications, such as Excel, may require additional processing time when advancing to the next input field. Without a delay, data may arrive faster than the application can process the data. You can use the POSTAMBLE command to add a line feed at the end of each bar code.	200ms

Using the Scan Demo to Decode a Bar Code

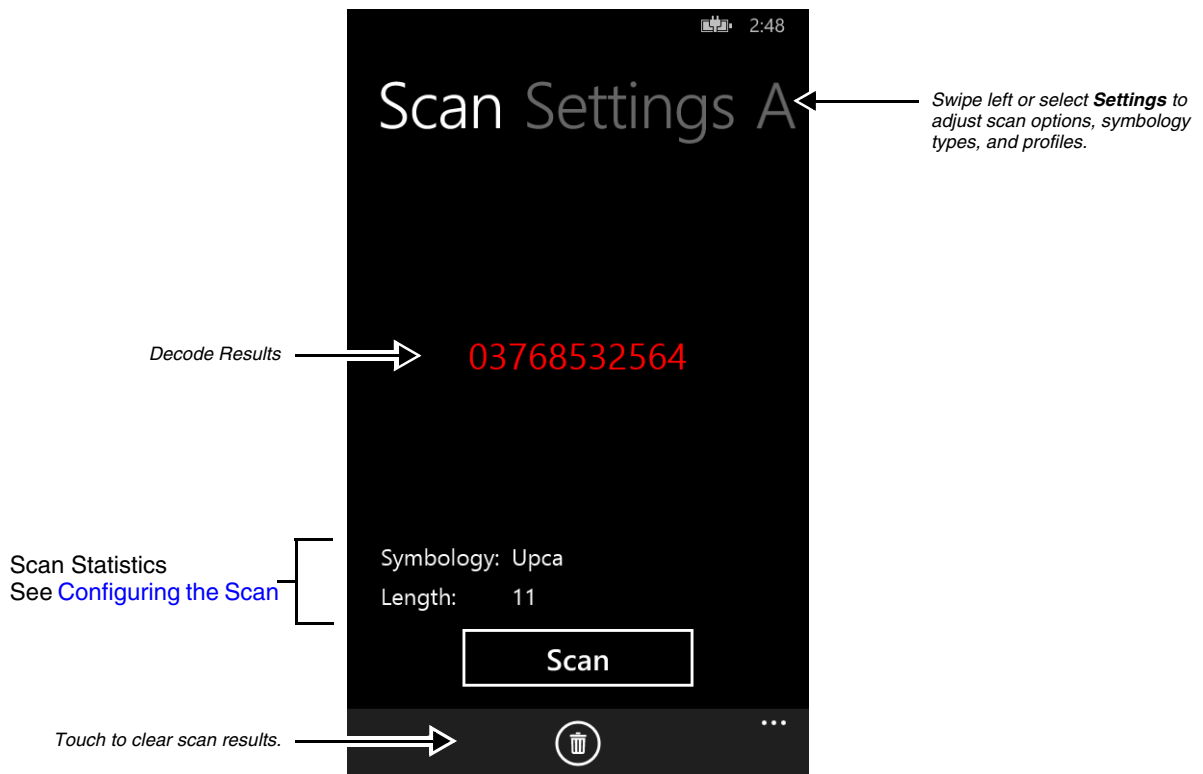
The Scan Demo demonstrates the functionality of the integrated scan image engine in the terminal and is not intended as a functional business solution.

1. On the **All Apps** list select **ScanDemoW10** .
2. Point the Dolphin terminal at the bar code. For optimum performance, avoid reflections by scanning the bar code at a slight angle.





3. Touch **Scan** on the touch screen or press and hold one of the **Scan** buttons. If you touch and hold **Scan**, a red beam appears to assist with aiming; see [Aiming Beam](#) on page 3-6.

The bar code is decoded and the results appear on the screen.



Automatic Scanning


Enable **Automatic** scan mode to activate the imager for continuous scanning without requiring the operator to touch **Scan** for each bar code presented in the field of view of the imager.


1. Open the **ScanDemoW10** .
2. Swipe left or touch **Settings**, and then select **Scan**.
3. Change the Scan Mode to **Automatic**.
4. Use the slider adjustment under **Automatic Interval** to set the number of seconds (0 to 30) between scan attempts.
5. Press the **Back** button  to return to the Scan screen.
6. Touch **Scan** on the screen to activate the imaging engine. Once activated, the imager automatically scans and decodes bar codes presented in the field of view based on the Automatic Interval set.

To disable the feature set the Scan mode back to **Normal**.

Continuous Scanning



Enable Continuous scan mode to activate the imager for continuous scanning when you press and hold the Scan button.

1. Open the **ScanDemoW10** .
2. Swipe left or touch **Settings**, and then select **Scan**.
3. Change the Scan Mode to **Continuous**.





4. Press the **Back** button  to return to the Scan screen.
5. Press and hold the Scan button to activate the imaging engine. The imager scans and decodes bar codes presented in the terminal's field of view as long as the button is pressed. You can also press and hold either the left or right side buttons to activate the imaging engine.
6. Release the **Scan** button to deactivate the imager.

To disable the feature set the Scan mode back to **Normal**.



Configuring the Scan Demo Application

1. Open the **ScanDemoW10** .
2. Swipe left or touch **Settings**.
3. Select **Scan**, **Symbology**, or **Profiles**.
4. Modify the settings to meet your application needs, and then press the **Back** button  to return to the Scan Demo screen.

Scan Settings

Setting	Description	Default Value
Vibrate	When On  , the terminal vibrates to indicate a good read.	Off 
Sound	When On  , the terminal beeps to indicate a good read.	On 
Scan Mode	Three scan mode options are available: <ul style="list-style-type: none"> • Normal (see Using the Scan Demo to Decode a Bar Code on page 3-3) • Automatic (see Automatic Scanning on page 3-4) • Continuous (see Continuous Scanning) 	Normal
Automatic Interval	Sets the number of seconds between scan attempts. An slider adjustment allows you to choose between 0 and 30 seconds.	5 seconds

Symbology Settings

The Symbology Settings defines the bar code symbology types the scanner will decode when using the ScanDemoW10 app. Touch the toggle box next to a symbology to enable  or disable  the symbology for scanning. Swipe up or down to scroll through the list of available symbologies.

Profiles

The built-in Point of Service (POS) profiles are applied by the Scan Demo app using the Microsoft POS application program interface (API) ClaimedBarcodeScanner.SetActiveProfileAsync, which sets the active profile on the terminal bar code scanner. The profile strings defined by the HoneywellDecoderSettingsV2.exm file are returned to the app using BarcodeScanner.GetSupportedProfiles, which gets the list of profiles supported by the bar code scanner.

Profile	Description
HON:Reset	Resets all symbology settings to disabled.
HON:EnablePreviewOnDecode	Profile not supported in ScanDemoW10 app.
HON:EnablePreviewOnDecodeAttempt	Profile not supported in ScanDemoW10 app.
HON:DisablePreview	The default profile. Disables sending images to the application. Only decode results are shown on the screen.
HON:EnableOOBE	Enables the symbology types required when the built-in out-of-box plug-in runs at first boot for scanning EZConfig labels.

Aiming Beam

The terminal projects an aiming beam that should be centered over the bar code, but it can be positioned in any direction for a good read. The aiming beam is smaller when the scanner is closer to the code and larger when it is farther from the code. Hold the scanner close to smaller bar codes, and farther away from large bar codes to get a proper read. If the bar code is highly reflective (e.g., laminated), you may need to tilt the scanner at an angle so the bar code can be scanned.

Linear Bar Code.



2D Matrix Symbol



Information for Developers

You may need to create customized profiles to configure the scanner for your application. Some settings are only possible when using customized profiles.

Custom Profiles

Profiles are used to enable symbologies, configure symbology options, and set scanning options. The HoneywellDecoderSettingsV2.exm file is used to define or specify one or more profiles and must be placed on the terminal in either of these two locations:

- **\Documents\Profile**
The user must create the Profile folder. To learn how to transfer files from your computer to the terminal, see [Connecting the Terminal to a Computer \(PC\) via a USB Connection](#) on page 1-13
- **\SharedData\Enterprise\Persistent\Profile**
This folder is only accessible by an Enterprise signed application.

Note: To download a sample HoneywellDecoderSettingsV2.exm file, go to www.honeywellaidc.com, navigate to the 75e product page, and then select “Honeywell Decoder Settings Sample EXM File” under the Software listings.

When the HoneywellDecoderSettingsV2.exm file is updated the 75e receives notification, performs initial processing of the profile information, and writes status information to the HoneywellDecoderSettingsV2.err file. The err file is written back to the same location as the exm file, either \Documents\Profile or \SharedData\Enterprise\Persistent\Profile.

The HoneywellDecoderSettingsV2.exm file may contain profiles for both Wedge Mode and POS Mode. The HoneywellDecoderSettingsV2.exm is in XML format and each section element defines a different profile. The profile targeted for Wedge Mode is identified by the name “HONWedge”. There can only be one HONWedge profile. All other profiles are available for POS applications.

The HONWedge profile is applied whenever the 75e enters Wedge Mode. POS profiles are applied when a POS application calls the POS API to set an active profile. POS profiles may be automatically applied using the Apply command set to true.

Example Custom Profile

The example below contains two profiles, one for Wedge Mode and one for POS Mode.

- The exm file contains the required ConfigDoc element named "Data Collection Profiles". This is not optional and must always be included.
- The Section tags <section> identify the profile names. The POS profile name may be customized to anything you want but wedge mode profile must be named "HONWedge". For the example below, "C39 Internal Scanner" is used for the POS Mode profile and "HONWedge" for the Wedge Mode profile.
- The command tags <cmd> identify the profile settings.
- The Device command <cmd="Device"> is set to Internal to indicate the internal scanner and not an external scanner (e.g., ring scanner). The second profile, named "HONWedge", must contain a Device command set to Internal but a POS profile can be set to either Internal or USB.
- The Type command (cmd="TYPE"), is set to Full, which instructs the scanning system to first restore defaults before applying the commands in the profile.
- The Apply (cmd="APPLY") command instructs the scanning system to automatically apply the profile when a POS application claims the scanner. The Apply command is not applicable to Wedge Mode. In Wedge Mode the "HONWedge" profile is automatically applied whenever the scanning system switches to Wedge Mode.
- The "HONWedge" profile enables EAN13 and issues a command to include the check digit.
- The "HONWedge" profile shows the syntax for issuing wedge commands, including how to enter binary data as postambles or preambles.

```
<?xml version="1.0"?>
<ConfigDoc flags="000" name="Data Collection Profiles" desc="Profiles used for scanner configuration via POS Scanner API">
  <HHPReserved>
    <Key name="EXMVersion">1.0.1</Key>
    <Key name="ContentVersion">1.0.0</Key>
  </HHPReserved>

  <Section flags="000" name="C39 Internal Scanner" id="C39">
    <Key cmd="DEVICE" desc="Specifies the scanner type" list="Internal,USB" name="Device Type">Internal</Key>
    <Key cmd="TYPE" list="Incremental,Full" name="ProfileType">Full</Key>
    <Key cmd="APPLY" list="true,false" min="" name="ApplyProfileOnLoad">>false</Key>
    <Key cmd="DEC_CODE39_ENABLED" list="true,false" name="Code 39 Enable Symbology" id="Enable" gr="flag">>true</Key>
    <Key cmd="DEC_CODE39_MIN_LENGTH" name="Code 39 Minimum Character Length" id="MinLength" min="0" max="48">3</Key>
  </Section>

  <Section flags="000" name="HONWedge" id="WedgeConfig">
    <Key cmd="DEVICE" list="Internal,USB" name="Device Type">Internal</Key>
    <Key cmd="TYPE" list="Incremental,Full" name="ProfileType">Full</Key>
    <Key cmd="ENABLE_WEDGE" list="true,false" name="WedgeEnable">>true</Key>
    <Key cmd="PREAMBLE" name="Preamble">MyPreamble</Key>
    <Key cmd="POSTAMBLE" name="Postamble">&#x0d;</Key>
    <Key cmd="ENTER_DELAY" min="" name="Enter Delay">400</Key>
    <Key cmd="WEDGE_POWER_TIMEOUT" min="2" max="10000" name="ImagerPowerTimeout">5000</Key>
    <Key cmd="DEC_EAN13_ENABLED" list="true,false" name="EAN13 Enable Symbology" id="Enable" gr="flag">>true</Key>
    <Key cmd="DEC_EAN13_2CHAR_ADDENDA_ENABLED" list="true,false" name="EAN13 2 Digit Addenda (UPC/EAN)"
      id="Addenda2Digit" gr="flag">>false</Key>
    <Key cmd="DEC_EAN13_5CHAR_ADDENDA_ENABLED" list="true,false" name="EAN13 5 Digit Addenda (UPC/EAN)"
      id="Addenda5Digit" gr="flag">>false</Key>
    <Key cmd="DEC_EAN13_CHECK_DIGIT_TRANSMIT" list="true,false" name="EAN13 Send Check Character"
      id="CheckTransmit" gr="flag">>true</Key>
  </Section>
</ConfigDoc>
```

Available Profile Commands

"DEC_CODE128_ENABLED"
"DEC_CODE128_MIN_LENGTH"
"DEC_CODE128_MAX_LENGTH"
"DEC_GS1_128_ENABLED"
"DEC_GS1_128_MIN_LENGTH"
"DEC_GS1_128_MAX_LENGTH"
"DEC_C128_ISBT_ENABLED"
"DEC_CODE39_ENABLED"
"DEC_CODE39_MIN_LENGTH"
"DEC_CODE39_MAX_LENGTH"
"DEC_CODE39_CHECK_DIGIT_MODE"
"DEC_CODE39_FULL_ASCII_ENABLED"
"DEC_CODE39_START_STOP_TRANSMIT"
"DEC_CODE39_APPEND_ENABLED"
"DEC_CODE39_BASE32_ENABLED"
"DEC_DATAMATRIX_ENABLED"
"DEC_DATAMATRIX_MIN_LENGTH"
"DEC_DATAMATRIX_MAX_LENGTH"
"DEC_UPCA_ENABLED"
"DEC_COUPON_CODE_MODE"
"DEC_UPCA_CHECK_DIGIT_TRANSMIT"
"DEC_UPCA_NUMBER_SYSTEM_TRANSMIT"
"DEC_UPCA_2CHAR_ADDENDA_ENABLED"
"DEC_UPCA_5CHAR_ADDENDA_ENABLED"
"DEC_UPCA_ADDENDA_REQUIRED"
"DEC_UPCA_ADDENDA_SEPARATOR"
"DEC_UPCE0_ENABLED"
"DEC_UPCE1_ENABLED"
"DEC_UPCE_CHECK_DIGIT_TRANSMIT"
"DEC_UPCE_NUMBER_SYSTEM_TRANSMIT"
"DEC_UPCE_2CHAR_ADDENDA_ENABLED"
"DEC_UPCE_5CHAR_ADDENDA_ENABLED"
"DEC_UPCE_ADDENDA_REQUIRED"
"DEC_UPCE_ADDENDA_SEPARATOR"
"DEC_EAN8_ENABLED"
"DEC_UPCE_EXPAND"
"DEC_EAN8_CHECK_DIGIT_TRANSMIT"
"DEC_EAN8_2CHAR_ADDENDA_ENABLED"
"DEC_EAN8_5CHAR_ADDENDA_ENABLED"
"DEC_EAN8_ADDENDA_REQUIRED"

"DEC_EAN8_ADDENDA_SEPARATOR"
"DEC_EAN13_ENABLED"
"DEC_EAN13_CHECK_DIGIT_TRANSMIT"
"DEC_EAN13_2CHAR_ADDENDA_ENABLED"
"DEC_EAN13_5CHAR_ADDENDA_ENABLED"
"DEC_EAN13_ADDENDA_REQUIRED"
"DEC_EAN13_ADDENDA_SEPARATOR"
"DEC_AZTEC_ENABLED"
"DEC_AZTEC_MIN_LENGTH"
"DEC_AZTEC_MAX_LENGTH"
"DEC_HK25_ENABLED"
"DEC_HK25_MIN_LENGTH"
"DEC_HK25_MAX_LENGTH"
"DEC_CODABAR_ENABLED"
"DEC_CODABAR_MIN_LENGTH"
"DEC_CODABAR_MAX_LENGTH"
"DEC_CODABAR_START_STOP_TRANSMIT"
"DEC_CODABAR_CHECK_DIGIT_MODE"
"DEC_CODABAR_CONCAT_ENABLED"
"DEC_CODABLOCK_F_ENABLED"
"DEC_CODABLOCK_F_MIN_LENGTH"
"DEC_CODABLOCK_F_MAX_LENGTH"
"DEC_CODE11_ENABLED"
"DEC_CODE11_MIN_LENGTH"
"DEC_CODE11_MAX_LENGTH"
"DEC_CODE11_CHECK_DIGIT_MODE"
"DEC_CODE93_ENABLED"
"DEC_CODE93_MIN_LENGTH"
"DEC_CODE93_MAX_LENGTH"
"DEC_COMPOSITE_ENABLED"
"DEC_COMPOSITE_MIN_LENGTH"
"DEC_COMPOSITE_MAX_LENGTH"
"DEC_COMPOSITE_WITH_UPC_ENABLED"
"DEC_HANXIN_ENABLED"
"DEC_HANXIN_MIN_LENGTH"
"DEC_HANXIN_MAX_LENGTH"
"DEC_IATA25_ENABLED"
"DEC_IATA25_MIN_LENGTH"
"DEC_IATA25_MAX_LENGTH"
"DEC_I25_ENABLED"
"DEC_I25_MIN_LENGTH"

"DEC_I25_MAX_LENGTH"
"DEC_I25_CHECK_DIGIT_MODE"
"DEC_KOREA_POST_ENABLED"
"DEC_KOREA_POST_MIN_LENGTH"
"DEC_KOREA_POST_MAX_LENGTH"
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"DEC_M25_MIN_LENGTH"
"DEC_M25_MAX_LENGTH"
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"DEC_MAXICODE_MIN_LENGTH"
"DEC_MAXICODE_MAX_LENGTH"
"DEC_MICROPDF_ENABLED"
"DEC_MICROPDF_MIN_LENGTH"
"DEC_MICROPDF_MAX_LENGTH"
"DEC_MSI_ENABLED"
"DEC_MSI_MIN_LENGTH"
"DEC_MSI_MAX_LENGTH"
"DEC_MSI_CHECK_DIGIT_MODE"
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"DEC_PDF417_MIN_LENGTH"
"DEC_PDF417_MAX_LENGTH"
"DEC_QR_ENABLED"
"DEC_QR_MIN_LENGTH"
"DEC_QR_MAX_LENGTH"
"DEC_RSS_14_ENABLED"
"DEC_RSS_LIMITED_ENABLED"
"DEC_RSS_EXPANDED_ENABLED"
"DEC_RSS_EXPANDED_MIN_LENGTH"
"DEC_RSS_EXPANDED_MAX_LENGTH"
"DEC_S25_ENABLED"
"DEC_S25_MIN_LENGTH"
"DEC_S25_MAX_LENGTH"
"DEC_TELEPEN_ENABLED"
"DEC_TELEPEN_MIN_LENGTH"
"DEC_TELEPEN_MAX_LENGTH"
"DEC_TELEPEN_OLD_STYLE"
"DEC_TLC39_ENABLED"
"DEC_TRIOPTIC_ENABLED"
"DEC_OCR_MODE"
"DEC_POSTAL_ENABLED"
"DEC_POSTAL_ENABLED_DIRECT",

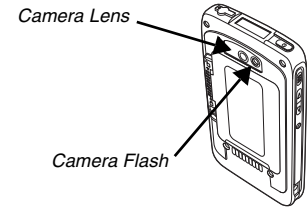
"DEC_POSTNET_CHECK_DIGIT_TRANSMIT"
"DEC_PLANETCODE_CHECK_DIGIT_TRANSMIT"
"DEC_VIDEO_REVERSE_ENABLED"
"DEC_WINDOW_MODE"
"DEC_WINDOW_TOP"
"DEC_WINDOW_BOTTOM"
"DEC_WINDOW_LEFT"
"DEC_WINDOW_RIGHT"
"DEC_OCR_ACTIVE_TEMPLATES"
"DEC_OCR_TEMPLATE"
"GENERIC"
"DEC_ECI_HANDLING"
"SCN_ACTIVESTANDBY_TIMEOUT"
"SCN_SCAN_TIMEOUT"
"WEDGE_POWER_TIMEOUT"
"ENABLE_WEDGE"
"ENABLE_GOOD_Read_BEEP"
"PREAMBLE"
"POSTAMBLE"
"ENTER_DELAY"



Using the Color Camera

Overview

Dolphin 75e terminals are equipped with 8.0-Megapixel auto focus cameras to provide easy integration of color picture and video capture into business applications. The camera lens and camera flash are located on the back panel of the terminal.







Opening the Camera app and Adjusting the Settings

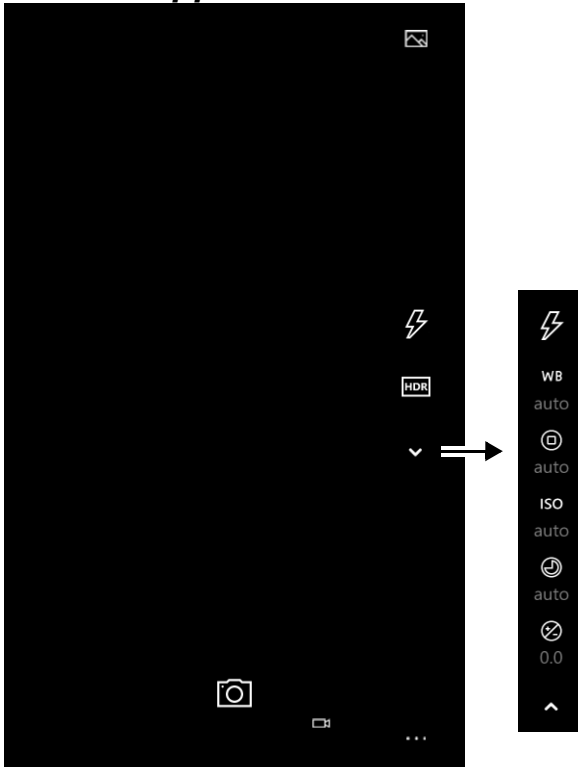
To open the Camera app, touch **Camera**  on the **Apps list** screen.

Adjusting the Photo and Video Settings

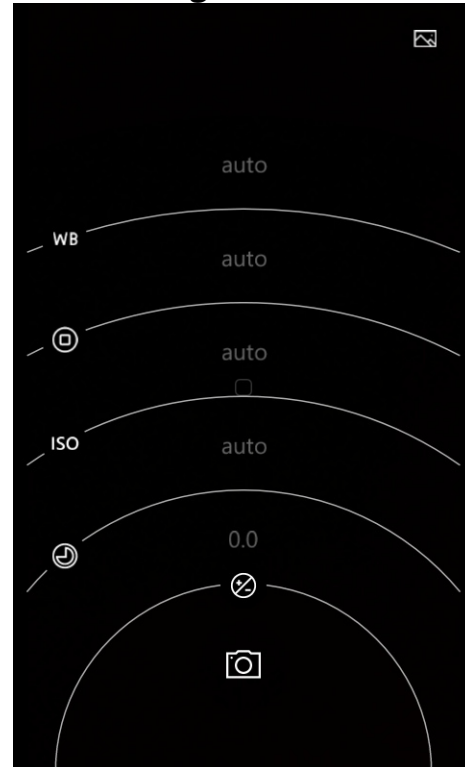
The camera photo and video settings are adjustable from within the **Camera** app. You can change the settings using the following methods:

- Touch the flash or HDR icon to switch between the available options (see [On-Screen Settings Menu](#) on page 4-2).
- Touch  to expand the on-screen settings menu. Select the option you want to change. When the dial appears, slide the icon along the curve to adjust the setting (see [On-Screen Settings Menu](#) on page 4-2).
- Drag the camera icon  or video icon  up toward the center of the screen to see all the dials. Move each icon along the dial curve to adjust the associated setting. When you are done, drag the camera or video icon back down toward the bottom of the screen.
- Touch the three dots  to change lenses, use the self-timer, or access advanced settings (see [Advanced Photo and Video Settings](#) on page 4-2).

Camera App















Dial Settings











On-Screen Settings Menu

The following settings are available from the on-screen Photo settings menus:

- **Flash** — On , Off  or Auto 
- **HDR** (high dynamic range) — On  or Off  (see note below)
- **White balance** WB — Auto, Cloudy , Sun light , Florescent light , or Incandescent light 
- **Focus**  — Auto or Manual adjust M
- **Light Sensitivity** ISO — Auto, 100, 200, 400, 800, 1600, or 3200
- **Shutter speed**  — Auto, or adjust from 1/16000 to 2s
- **Brightness**  — adjusts from -2.0 to +2.0

Note: When HDR is enabled on the collapsed setting menu, the flash is controlled by the HDR feature and the expanded menu settings (▼) are overridden. When the expanded menu is opened (select ▼), then the HDR setting is automatically disabled. See [Adjusting the Photo and Video Settings](#) on page 4-1.

The following settings are available from the on-screen Video settings menu:

- **Video Light** — On  or Off 
- **White balance** WB — Auto, Cloudy , Sun light , Florescent light , or Incandescent light 
- **Focus**  — Auto or Manual adjust M
- **Brightness**  — adjusts from -2.0 to +2.0






Advanced Photo and Video Settings

1. In the Camera app, touch the three dots **•••**.
2. Select **Settings**.
3. Change any of the following:
 - Change the “Press and hold camera button” option to either **Photo Burst** or **Video**.
 - Adjust the photo **Aspect ratio**.
 - Select a viewfinder **Framing grid**.
 - Adjust the **Focus light** setting.
 - Specify **Video recording** frames per second (fps).
 - Turn **Digital video stabilization** On or Off.







You can also access links to these related items from the Settings screen:

- Manage OneDrive upload settings.
- Change where photos and videos are saved.
- Choose whether the camera app can use location information.
- Change privacy settings.

Taking a Photo

1. In the **Apps list**, touch **Camera** .
2. Select photo mode  in the viewfinder.
3. Point the camera lens at the object you want to capture. The camera lens is located on the back panel of the terminal.
4. Touch  to take the photo.
5. To view your captured photo, touch the preview in the upper right corner of the screen. By default, single photos are saved to the Camera Roll album (Phone\Pictures\Camera Roll) in the Photos Hub (**Apps list** > **Photos** ).
6. Press the **Back** button  return to the Camera app.

Recording Video

1. In the **Apps list**, touch **Camera** .
2. Select video mode  in the viewfinder.
3. Point the camera lens at the scene or object you want to capture in video.
4. Touch  to start capturing video.
5. Touch  to stop capturing video.
6. To view the captured video, touch the preview in the upper right corner of the screen. By default, videos are saved to Camera Roll album (Phone\Pictures\Camera Roll) in the Photos Hub (**Apps list** > **Photos** ).
7. Press the **Back** button  return to the Camera app.



Uploading Pictures and Videos

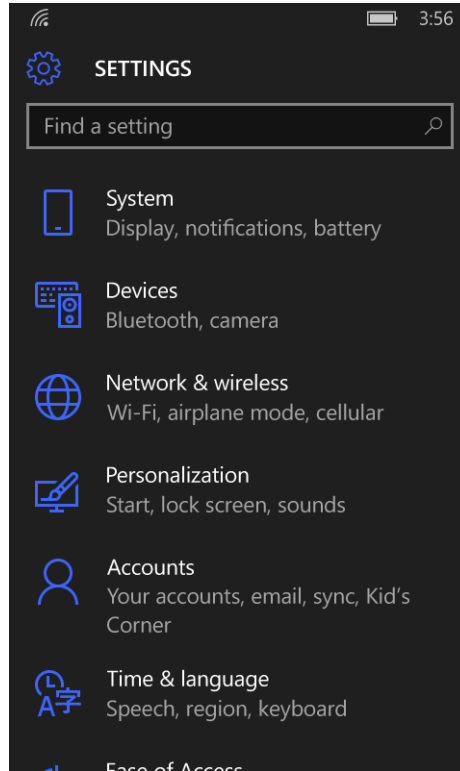
Picture and Video files can be uploaded to a computer using a USB connection. For additional information, [see page 1-13](#).



Overview

The Settings allows you to verify and/or alter system parameters to customized your terminal to meet your specific needs.

On the **Apps list** touch **Settings**  or pull down the Action Center from the top of the screen and select  **All settings**.



Note: Due to model hardware differences, some inactive settings may appear on the menus but not be supported by your Dolphin model type. Selecting an inactive setting has no effect and will not cause functional issues.

Network and Wireless Settings


For information on Wi-Fi and VPN settings, see [Wireless & Network Settings](#), beginning on page 6-1.

For information on Bluetooth settings, see [Working with Bluetooth and NFC Technology](#), beginning on page 7-1.


For information on Ethernet settings, see [Establishing Ethernet Communication](#) on page 9-6.

Personalization

Changing Start and the Screen Theme

1. In the **Apps list**, touch **Settings**  > **Personalization**.
2. Select the screen setting you want to modify.


Start

Add a picture to the background of the Start screen and set how you want the background picture to appear (e.g., full or tiled). You can also decrease the number of Tiles shown on the screen, making them larger, by turning the **Show more Tiles** option Off .



Colors

Select a new screen accent color.


Changing the Sound Settings

1. In the **Apps list**, touch **Settings**  > **Personalization** > **Sound**.
2. Select the configuration setting you want to modify.

Vibrate

Touch the toggle box to turn vibration feedback On  or Off  during touch screen interaction.

Ringtone

Touch the Ringtone box and select from the list of preset ringtones. To hear a ringtone, touch the play icon .

Play a sound for

Touch the check box to toggle sound On (check) or Off (no check) for each of the following features:

- Key press
- Lock and unlock
- Camera shutter
- System alerts

Manage App Sounds


Touch **Manage App Sounds** to access the **Notifications & actions** setting screen. To learn more see [Changing App Specific Notifications](#) on page 5-3.

Managing Security and Customizing the Screen Lock

Access the **Sign-in options** to set up a PIN lock in place of passwords for added security against unauthorized access to your terminal. The time limits before the PIN lock and the screen lock activates are independently adjustable. You can customize what you want showing when the PIN lock or the screen lock activate. Select a special photo for the background or have your notifications and appointment reminders viewable without unlocking the screen.

Adding a PIN Lock and Adjusting the Lock Activation Time Limit


To set up a PIN (password) lock:

1. In the **Apps list**, touch **Settings**  > **Accounts** > **Sign-in options**.
2. Select **Add**.
3. Enter a PIN in the **New PIN** box.
4. Retype the PIN in the **Confirm PIN** box.
5. Touch **OK**.
6. Select the box under **Require sign-in** to change the length of time between the screen lock turning on and the PIN lock activating. The default setting is **15 minutes**.

This setting only controls the PIN lock and has no effect on the screen lock time limit. For information on the screen lock, see [Setting when the Screen Lock Activates](#) on page 5-3.

Changing the PIN Lock


To change the PIN lock:

1. In the **Apps list**, touch **Settings**  > **Accounts** > **Sign-in options**.
2. Select **Change**.

-
3. Enter the current **PIN**.
 4. Enter the **New PIN**.
 5. Retype the new PIN in the **Confirm PIN** box.
 6. Touch **OK**.



Removing the PIN Lock

To remove a pin lock:

1. In the **Apps list**, touch **Settings**  > **Accounts** > **Sign-in options**.
2. Select **Remove**.
3. Select **Remove** again to save the change.


Changing the Lock Screen Background

To change the lock screen background:

1. In the **Apps list**, touch **Settings**  > **Personalization** > **Lock screen**.
2. Touch the box under **Background** and do one of the following:
 - Touch My Picture and then Browse to choose a photo from your albums or favorites stored on the terminal. Once you select the image, adjust how it looks in the box on the screen. Slide it left or right so it is centered or pinch your fingers together or apart to resize the image. Select  to save.
 - Touch Bing to receive periodic image updates from Bing.


Choosing what Notifications Show on the Lock Screen

To select what information shows on the Lock screen:

1. In the **Apps list**, touch **Settings**  > **Personalization** > **Lock screen**.
2. Touch the box under **Choose an app to show detailed status** and select an app from the list or select none to show no status.
3. Under **Choose apps to show quick status**, touch a box to select and add an app. You can show the quick status of up to five apps on the lock screen.

Setting when the Screen Lock Activates

To set the time limit of inactivity before the Screen Lock activates:

1. In the **Apps list**, touch **Settings**  > **Personalization** > **Lock screen**.
2. Touch the box under **Screen times out after**, and then select a time increment (**seconds** or **minutes**) or **never** if you do not want the screen lock to activate after a period of no activity.

Note: This setting does not control when the PIN (Sign-in) lock is activated. For information on the PIN lock, see [Adding a PIN Lock and Adjusting the Lock Activation Time Limit](#) on page 5-2.

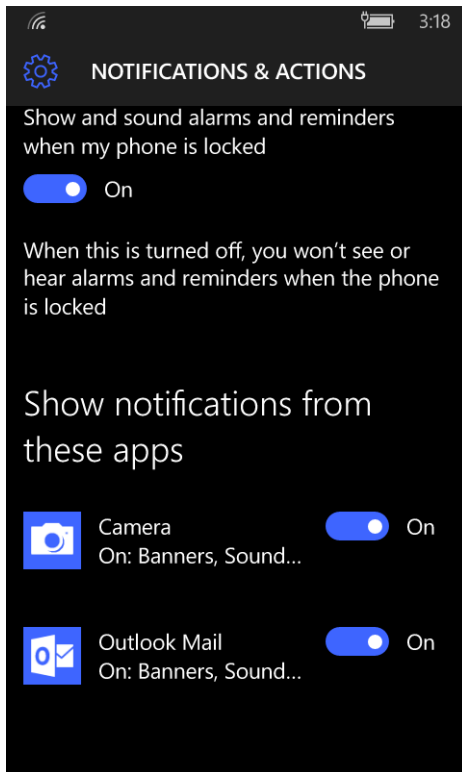
Changing App Specific Notifications

You can change how specific apps deliver notifications by accessing the **Notifications & actions** settings. Set whether you want an app to show notifications in the Action Center or personalize the characteristics of the notifications received to include a unique sound, terminal vibration, or LED activity.

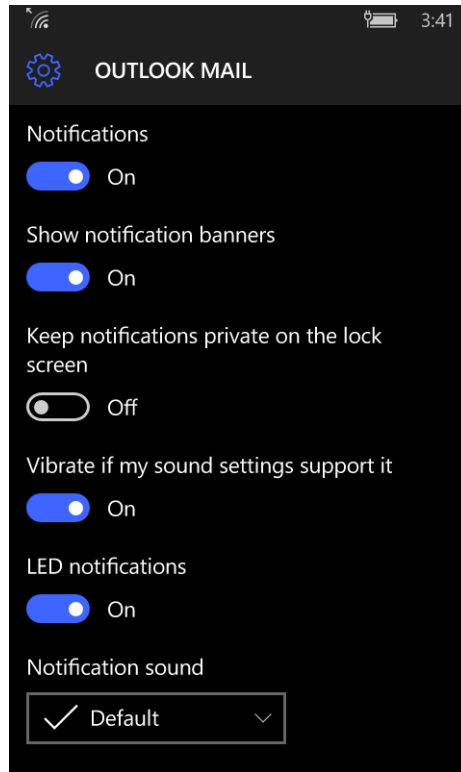
1. In the **Apps list**, touch **Settings**  > **System** > **Notifications & actions** or select  **All settings** > **System** > **Notifications & actions** from the Action Center.







2. Scroll down to the heading **Show notifications from these apps**.

Notifications & Actions



Outlook Mail Settings



3. Touch the toggle box to next to an app to turn On  or Off  notifications from the app.
4. Select the app if you want to customize how notifications should be handled.
5. Turn the following options On  or Off  for the selected app.
 - Show notification banners
 - Keep notifications private on the lock screen
 - Vibrate if my sound settings support it
 - LED notifications: When turned On , the left LED (closest to the H in the Honeywell logo) briefly blinks blue to indicate a new message has been received.
6. Touch the **Notification sound** box and then select from the list of preset sounds or select **✕ none** to turn sound off.
To hear a sound, touch the play icon .





To learn more about how to customize the Action Center, see page 1-6.

Selecting What to Sync


When you first set up the terminal and sign into your Microsoft account, sync settings is turned on by default (except for **Theme** syncing). A Microsoft account or work account is required to use this feature.

To select what settings you want synced across your Microsoft devices:

1. In the **Apps list**, touch **Settings**  > **Accounts** > **Sync your settings**.

-
2. Touch the toggle box to turn the **Sync settings** feature On  or Off .
 3. Set limits on what you want to sync by turning the **Theme** and/or **Passwords** options On  or Off .

Setting Up Quiet Hours



You can turn on the Quiet Hours setting so you are not disturbed by notifications between the hours of 12 am and 6 am. Open and expand the Action Center (see page 1-6) and then select the quiet hours  quick setting to enable or disable the feature. The setting is highlighted in blue when enabled.

Email and Messaging Accounts

Adding a Microsoft Account

A Microsoft account (email address and password) is required to sign into some services like Outlook.com, OneDrive®, Windows Phone or Shop. You can have more than one Microsoft account but the first account you set up on the terminal will be the account used for any services that require an Microsoft account.

Important: Once you add the first Microsoft account, there is no way to change it without resetting the terminal. For more information, see [Resetting the Terminal](#) on page 1-12.



1. In the **Apps list**, touch **Settings**  > **Accounts**.
2. Touch **Your email and accounts**.
3. Touch  **add an account**, and then **Microsoft account**
4. Select **sign in**. If you do not already have an account, select **create one** and follow the on-screen prompts.
5. Enter the account email address and password, and then touch **next**.
6. You may need to validate your identity by entering a Microsoft code. The code is sent to you using the contact information you provided when setting up your Microsoft account.
7. Select **yes** or **no** to set the your cloud syncing and backup preferences.

Adding Additional Accounts

Once your first Microsoft account is set up, you can still add other accounts (e.g., Google, Hotmail.com, Live.com, MSN) to keep your email, contacts and the calendars in sync on the terminal.

For information on how to add a Microsoft Exchange, Office 365 or an account that uses Exchange ActiveSync, see [Adding an Exchange Account](#) on page 5-6.

To add an additional account:

1. In the **Apps list**, touch **Settings**  > **Accounts**.
2. Touch **Your email and accounts**.
3. Touch  **add an account**.
4. Select the account type you want to add. If your account type is not listed, select **other account** to add an email account from an Internet Service Provider (ISP).

Note: Select Outlook.com for Hotmail.com, Live.com or MSN accounts. Outlook.com only shows if you are already signed into your first Microsoft account.




5. Enter the account email address and password.

For Google accounts, you may need to validate your identity. When prompted, sign into the account using your email address and password. A validation code is sent to you using the contact information you set up for your Google account. Enter the validation code when prompted. You may need to select **Allow** or **Accept** to give permission for the connection.



-
6. Select **Sign in**.
 7. Touch **done**.

Manual Set Up

If you prefer to manually input the account settings (e.g., email server addresses and account type) to set up the account:


1. In the **Apps list**, touch **Settings**  > **Accounts**.
2. Touch **Your email and accounts**.
3. Touch  **Add an account**.
4. Choose  **Advanced setup**. You may need to scroll down to the bottom of the list to see the option.
5. Select either **Exchange ActiveSync** or **Internet email** for the account type.
6. Enter the required account information and security settings. Check with your service provider for the correct settings if you are not sure what to enter.
7. Touch **Sign in**.

Adding an Exchange Account


1. In the **Apps list**, touch **Settings**  > **Accounts**.
2. Touch **Your email and accounts**.
3. Touch  **Add an account**, and then **Exchange**.
4. Enter the account email address and then select **Next**.
5. Enter the your password, and then touch **Sign in**.
6. Touch **Done**.

Modifying or Removing an Account

To modify account settings:

1. In the **Apps list** > **Settings**  > **Accounts** > **Your email and accounts**.
2. Touch the account you want to modify.
3. Touch **Manage**.
4. Select one of the following:
 - Account Name
 - Change mailbox sync settings
 - Change account settings
5. Edit the settings and then select **Done**.
6. Touch **Save** to apply the changes.

To remove an account:


1. In the **Apps list > Settings**  **> Accounts > Your email and accounts.**
2. Touch the account you want to delete.
3. Touch **Manage**.
4. Select **Delete account**.
5. Touch **Delete** to confirm.

Workplace Accounts

Some organizations provide a workplace account for easy terminal setup. The workplace account may include an app or account profile that can be installed on the terminal or additional information on the specific settings needed to access the organization's network.

Adding a Work Account

To Sign-in to a Microsoft Azure Active Directory (Azure AD) account:

1. In the **Apps list > Settings**  **> Accounts.**
2. Touch **Work access**.
3. Touch the **Add or remove a work or school account** link to go to your account page.
4. Scroll down and select **Add a work or school account** again. If the option is not available you are already signed in.
5. Enter your Azure AD account address and if prompted, your password. You may be redirected to your organization's sign-in page without having to enter a password if your Azure AD account is federated.
6. Follow any on screen prompts as the authentication and device registration process completes. You may need to enter a password if your Azure account is federated. The process for varies depending on the organization.
7. You may be prompted to set up a PIN if you have not already created one. Touch **Create PIN**.
8. Enter a PIN.
9. Enter the PIN again to confirm, and then select **OK**.

Once the setup process is complete, select **Settings > Accounts > Your email and accounts**. The Azure AD account should be listed at the top of the screen and also under the Accounts used by other apps heading.


If your account is set up for auto-enrollment into an MDM, the account appears under "Enroll in to device management" on the Work access screen (**Settings > Accounts > Work access**).

Note: If a work account is not available and you want to learn how to manually add virtual private network profile to the terminal, see [Virtual Private Networks \(VPN\)](#) on page 6-4.

Deleting a Work Account

Note: This option may not be available if your organization prevents the deletion of a workplace account.


To delete a work account:

1. In the **Apps list > Settings**  **> Accounts > Your email and accounts.**
2. Touch the account you want to delete.
3. Touch **Manage**.
4. Select **Delete account**.
5. Touch **Delete** to confirm.

System


Change the Terminal Name

To change the default terminal name:

1. In the **Apps list**, touch **Settings**  > **System** > **About**.
2. Select **Edit name**. The default name is *Windows Phone*.
3. Input a new name.
4. Select **Save**.





Viewing Software and Hardware information

To view basic software and hardware information:

1. In the **Apps list**, touch **Settings**  > **System** > **About**.
The Model, Software, and Installed RAM information appear under "Device information".
2. Select **More info** to view additional information including:
 - Version number
 - OS build number
 - Firmware revision number
 - Hardware revision number
 - Bootloader version
 - Radio software version
 - Radio hardware version
 - Chip SOC version
 - Screen resolution
 - MAC address
 - IMS registration

Note: The More info button disappears once the list expands. The list stays expanded until you restart the terminal. When you restart the terminal, the More Info button reappears and the detailed list is hidden.

To view detailed software and hardware information:

1. In the **Apps list**, touch **DiagnosticInfoW10** .
2. Swipe up or down to scroll through the following:
 - System Date/Time
 - Device Information
 - Honeywell Apps (version number)
 - Radio Information (includes MAC, Bluetooth, IP Addresses)
 - Battery Information
 - Memory Information
 - Scanner Information
3. If you want to export the diagnostic information to a text file, touch **Save** .
4. Select a folder location and then touch .
5. Change the file name. The default name is *DiagnosticInfo*.
6. Select **Save** , and then **OK**.




Performing a Factory Reset (Clean Boot)


To learn how to perform a Factory Reset (Clean Boot), see [Resetting the Terminal](#) on page 1-12.

Changing the Display Settings

Brightness Level



To adjust the screen brightness level or set the screen brightness to automatically adjust:

1. In the **Apps list**, touch **Settings**  > **System** > **Display**
2. Modify one of the following settings:
 - Use the slider adjustment to change the fixed brightness level.
 - Select the toggle box to turn automatic brightness adjustment **On**  or **Off** .
3. Select **Apply**. If prompted, restart the terminal.

You can also adjust the brightness level by touching  from the expanded Action Center.

Screen Rotation


By default, the display automatically adjusts the orientation of the screen between landscape and portrait when the terminal is rotated. To prevent the screen from automatically rotating, turn on the Rotation lock setting.

1. In the **Apps list**, touch **Settings**  > **System** > **Display**.
2. Select the toggle box to turn the screen Rotation lock **On** .

You can also turn the Rotation lock  On or Off from the Action Center.


Viewing Storage Statistics and Managing Apps and Files

To view space statistics (e.g., used and available) for the terminal's internal storage and an optional SD card, if one is installed:

1. In the **Apps list**, touch **Settings**  > **System**.
2. Select **Storage**.
3. To view a detailed breakdown of the use statistics and to access additional file and app management options, touch either **This Device** or **SD card (D:)**.


Changing the Default Storage Location for New Media, Apps, and Downloads

If you have installed a memory card in the terminal, you can change the default storage location for new media (e.g., music, videos), apps, or downloads from the **This device** (internal storage) to the **SD card (D:)**.


1. In the **Apps list**, touch **Settings**  > **System**.
2. Select **Storage**.
3. Swipe up until you see the options under "Save locations"
4. Select the box under the location you want to change and then touch **SD card (D:)**.

Formatting an SD Card


To format an SD card installed in the terminal:

1. In the **Apps list**, touch **Settings**  > **System** > **Storage**.
2. Select **SD card (D:)**.
3. Swipe up to reach the bottom of the SD card screen.
4. Touch **Format**.
5. Select **Yes, I'm sure** to confirm.



Viewing, Moving, or Uninstalling an App

1. In the **Apps list**, touch **Settings**  > **System** > **Storage**.
2. Select **This Device** or **SD card (D:)**, if a card is installed.
3. Touch **Apps & games** to view a list of apps installed on the terminal organized by size (largest to smallest).
4. Select the app you want to move or uninstall.
5. Touch either **Move** or **Uninstall**.
6. If you are moving the app, select the drive.
7. Touch **Move** or **Uninstall** depending on the action you selected in step 5.

Cleaning up Storage Space

1. In the **Apps list**, touch **Settings**  > **System** > **Storage**.
2. Select **This Device** or **SD card (D:)**, if a card is installed.
3. Touch **Temporary Files**.
4. Select one of the following options:
 - **Delete temporary files** to delete all known temporary file caches.
 - **View Downloads** to open and manage the content of the Downloads folder on the selected drive.
 - **Delete telemetry** to delete all telemetry files from stored on the terminal and the optional SD card.
 - **Microsoft Edge settings** to manage Microsoft Edge settings, history and storage.

Managing Apps and Files

1. In the **Apps list**, touch **Settings**  > **System** > **Storage**.
2. Select **This Device** or **SD card (D:)**, if a card is installed.
3. Select one of the following categories and actions:
 - Touch **Music** > **View music** to open the Photos  app.
 - Touch **Videos** > **View videos** to open the my videos collection.
 - Touch **Documents** > **View documents** to open File explorer to manage your Microsoft Office files.

-
- Touch **Mail & messaging**. Select either **Manage mail** to open and manage your email account (e.g., Outlook) or **Manage messages** to open and manage your Skype messaging account.
 - Touch **Maps > Manage maps** to open your Offline Maps settings.

Changing the Battery Settings

See [Managing Battery Power](#) on page 2-12.





Changing USB Settings

See [Changing USB Permissions and Notifications](#) on page 1-14.




Time and Language Settings

By default, the terminal is set to automatically update the time and date for your current location, when an active network connection is available for syncing. You can turn Off automatic updating and manually change the date, time and the time zone or switch the clock from to a 12-hour to a 24-hour clock format from the **date + time** settings screen.

Changing the Date, Time, or Time Zone

1. In the **Apps list**, touch **Settings**  > **Time & language**.
2. Select **Date & time**.
3. Turn the 24-hour clock format On  or Off . The default setting is Off.
4. By default, the terminal is set to automatically update the time and date for your current location.
To manually set the date and time, turn Off  the **Set date and time automatically** feature, and then modify the date and time.
5. If you turn off the automatic date and time setting, touch the Time zone box and then select the new time zone.

Changing the Terminal Language

1. In the **Apps list**, touch **Settings**  > **Time & language**.
2. Select **Language**, and then touch  **Add languages**.
3. Select all the languages you want available on the terminal, and then touch . The selected languages appear in the available language list.
4. Touch **Restart phone** to enable the first language on the list.

If you want a different language enabled, touch and hold the language, and then select **move up**. Repeat moving the language up until it is the first language on the list, and then touch **Restart phone**.

Changing the Terminal Region

You can change terminal **Country/Region** and set the **Regional format** from the **Settings**  > **Time & language > Region** screen.

Adding and Modifying Keyboards

You can activate more than one keyboard language. To switch between the languages swipe horizontally on the keyboard space bar.

To add keyboard languages:

1. In the **Apps list**, touch **Settings**  > **Time & language**.
2. Select **Keyboard**, and then touch  **Add languages**.
3. Select all the languages you want available on the keyboard, and then touch .

The selected languages are added to the available keyboard list. The next time you access the keyboard, swipe horizontally to switch between the keyboard languages. If you prefer to use a language switching key, select **More keyboard settings**, and then check the **Show the language switching key** box.

To remove a language on the list, touch and hold the language and then select **remove**.


Advanced Keyboard Settings

To modify common settings for all the keyboard languages, select **More keyboard settings**. Cursor control is adjustable for left or right hand use.

In the **Apps list**, touch **Settings**  > **Time & language** > **Keyboard** > **More keyboard settings**.

Input and Accessibility

Customizing Services and System Features for Accessibility


1. In the **Apps list**, touch **Settings**  > **Ease of access** to configure services and features that make using the terminal easier.
2. The following features and settings are available:
 - **Narrator**
Select to turn on the screen reader feature for text and buttons and access audio reader settings.
 - **High contrast**
Select to turn on high contrast to change the colors and hide background images for easier reading.
 - **Magnifier**
Select to turn on screen magnification with a two finger double-tap on the touch screen.
 - **Closed caption**
Select to turn on Display captions customize the appearance of closed captions.
 - **More options-**
Select to access the **Text scaling** slider. Use the slider to increase the size of the text on the screen.

For more information on these features, go to www.windowsphone.com.

Configuring the Speech Feature

When you use the Microsoft speech recognition service, the words you speak and the supporting data are sent to Microsoft to provide and improve the service. An active Internet connection is required and the “Get to know me” option under the Privacy settings must be turned On.

To configure the **Speech** feature:

1. In the **Apps list**, touch **Settings**  > **Time & Language**.
2. Select **Speech**.
3. To change the default language select it from the installed language list, and then touch **Set default**.
4. Check the box if you want to Recognize non-native accents for this language improve voice recognition for non-native speakers. You may need to scroll down to see the setting.
5. Touch the box under **Voice** and select the type of voice you want to hear for apps (e.g., turn-by-turn directions).




-
6. Use the slider to adjust the **Speed** of the voice.

Privacy





Changing the Location Service Settings

Location services are used when apps access Wi-Fi networks to approximate the location of the terminal to improve search results and other services. When you first open an app, you may be asked to provide permission for the app to use the terminal location information for better performance.

Turning Location Services On or Off

1. In the **Apps list**, touch **Settings**  > **Privacy**.
2. Select **Location**.
3. Turn **Location** On  or Off . When this feature is turned On, the terminal location is available to apps with permissions set to allow access to location information.




Turning the Location Request Indicator On or Off

1. In the **Apps list**, touch **Settings**  > **Privacy**.
2. Select **Location**.
3. Turn **Show location icon** On  or Off . When this option is turned On,  shows on the notification/status bar at the top of the screen when an app is requesting location data.

Clearing the Location History

1. In the **Apps list**, touch **Settings**  > **Privacy**.
2. Select **Location**.
3. Touch **Clear** to delete temporary location data stored on the terminal.

Setting Location Permissions for Specific Apps

1. In the **Apps list**, touch **Settings**  > **Privacy**.
2. Select **Location** and scroll down to the “Choose apps that can use your location” list.
3. Turn permission to use your location On  or Off  any app listed.

Modifying and Viewing App Permissions


You can control whether all apps or just specific apps have permission to access the terminal features (e.g., camera, your calendar and contacts, messaging or the terminal microphone).

Limiting App Permissions

1. In the **Apps list**, touch **Settings**  > **Privacy**.
2. Select the feature you want an app to stop using (e.g., Camera, Microphone, Contacts).
3. Turn access permission On  or Off  for a specific app or for all apps.

Update and Backup

Microsoft periodically releases software updates for the Windows 10 IoT Mobile Enterprise software running on the terminal.


To check the update status of the terminal software, in the **Apps list**, touch **Settings**  > **Update & security** > **Phone update**. The update status is listed with time of the last update check. To manually check for updates, touch **Check for updates**.

You can also set the terminal to automatically download and install the updates if:

- Sufficient space on the terminal storage is available.
- Sufficient charge on the battery is available.
- An active Wi-Fi network connection is available.
- Data sense and battery saver settings do not limit data usage.

Enabling Automatic Updates

To set the terminal to automatically download and install updates:

1. Touch **Settings**  > **Update & security** > **Phone update**.
2. Select **Advanced options**.
3. Select either **Automatic (recommended)** or **Notify to schedule restart** from the “Choose how updates are installed” box.

To set the terminal to **Defer updates**, check the box. This setting does not affect security updates but it prevent you from getting the latest Windows features when released.

Using the SD card for Manual Flash

This option is for advanced administrator or developer use to flash a specific firmware image to the 75e or if Internet access is not available for over-the-air (OTA) automatic updates. To update the Dolphin 75e using from a microSD card, you will need a:

- 4GB microSD card
- Valid Windows 10 IoT Mobile Enterprise full flash update image (.ffu) supplied by customer support.



Caution: All data on the terminal is erased during the flash process. Back up all files you want to keep before updating the software.

1. Locate the Part Number (P/N) for your terminal. The number can be found printed on the label inside of the battery compartment. The number starts with “75E”.
2. Rename the update image to “upg_<platform>_00.00.ffu”. <platform> corresponds to the first six characters of the Part Number (P/N), excluding the dash (-).

Example file name: upg_75EL0N_00.00.ffu

3. Copy the renamed .ffu image to the root directory of the microSD card.
4. Install the microSD card in the 75e.
5. Apply external power to the terminal and power it on. The update will go through a verification phase and then an update phase. A progress bar progress bar appears on the screen during each phase.

Important: The terminal must have power for the length of the entire flash process or it could become unstable. Do not attempt to remove the battery during the process. The process can take up to 15 minutes.






6. Set up the terminal again when you are prompted to select a language.

Backup Your Apps and Settings to OneDrive

When you create and sign into a Microsoft account on the terminal, you gain access to services that let you back up important apps, settings, photos and videos to OneDrive for recovery purposes if something happens to the terminal. For more information on Microsoft accounts and OneDrive, go to www.windowsphone.com.



You can set the terminal to automatically backup your apps and settings when a Wi-Fi connection is available and the terminal is connected to a power source. A reminder to create a new backup appears if the terminal has not been able to create a recent backup after three weeks due to the lack of a network connection and power source connection.

To enable or disable automatic backups of your settings and apps:

1. In the **Apps list**, touch **Settings**  > **Update & security**.
2. Select **Backup**.
3. Turn the items you want backed up to OneDrive On  or Off .
4. Select **More options**.
5. Turn On  or Off  **Enable automatic backups** under "Schedule backup".

Performing a Manual Backup





To manually initiate a backup:

1. In the **Apps list**, touch **Settings** .
2. Select **Backup** and verify the items you want backed up are turned On .
3. Touch **More options**.
4. Select **Back up now**.

Backup Your Photos and Videos

You can set the terminal to automatically upload your photos and videos to OneDrive so you can access them from any device. A Microsoft account and Wi-Fi connection are required for this option.


To set up automatic photo and video uploads:

1. In the **Apps list**, touch **OneDrive** .
2. Touch **Menu**  > **Settings**.
3. Select **Camera upload** and turn On  automatic upload.
4. Verify **Include videos** is turned On .

Deleting a Backup

An Wi-Fi connection is required to delete backup files.

To delete a backup from OneDrive:


1. In the **Apps list**, touch **Settings**  > **Backup**.
2. Touch **More options**.
3. Select **Go to OneDrive.com** and log in to your Microsoft account.
4. Select **Get more storage** > **Device Backups**.
5. Select **Delete**.

Extras

Battery Status Settings


For information on the checking the battery status, see [Checking the Battery Health](#) on page 2-11.

Changing the Button Illumination Settings

1. In the **Apps list**, touch **Settings**  > **Extras**.
2. Select **button illumination**.
3. Select one of the following options:
 - **Off**
When selected, the button backlights are always turned Off.
 - **On with Backlights**
When selected, the button backlights are always On, except when the terminal is in sleep mode.
 - **On with Backlight in Dark Environment**
When selected, the button backlights turn on only when the terminal sensors indicate light levels have dropped to the specified Brightness Threshold level. You can set the threshold to be between 0 and 999.

Modifying the Sensor Settings


To configure the integrated motion detection sensors for advanced power management:

1. In the **Apps list**, touch **Settings**  > **Extras**.
2. Select **sensor settings**.
3. Check the box for one or more of the following options:
 - **Low power mode on face down**
When selected, the terminal automatically enters Sleep mode (Suspend mode) when placed face down on a flat surface. By default this option is disabled
 - **Keep on when motion detected**
When selected, the terminal is prevented from entering Sleep mode (Suspend mode) when motion is detected. By default this option is disabled.
 - **Turn off display on face down**
When selected, the terminal display is automatically turned off when placed face down on a flat surface. Once the display turns off, the terminal enters sleep mode after 60 seconds. You can adjust the length of time between the terminal display going off and entering sleep mode. By default this option is disabled.
 - **Turn off display on close proximity**
When selected, the terminal display is automatically turned off when the sensors indicate something is in close proximity to the face of the terminal. Once the display turns off, the terminal enters sleep mode after 60 seconds. You adjust the length of time between the terminal display going off and entering sleep mode. By default this option is disabled.
4. To edit the touch screen time out limit, touch the time increment, and then enter a new value. The default is 60 seconds.
For more information on Sleep mode, see [Turning Sleep Mode \(Suspend Mode\) On/Off](#) on page 1-10.

Modifying Wi-Fi Radio Settings

For information on setting up and changing the Wi-Fi settings, see [Advanced Wi-Fi Radio Settings and Security](#) on page 6-3.

Wireless & Network Settings

In the **Apps list**, touch **Settings**  > **Network & wireless** to access settings to turn the on board wireless radios in the terminal On or Off and for configuring your network connections.

Connecting the Terminal to a Wireless Network

You connect the terminal to a wireless network through the on-board radios (802.11a/b/g/n/ac and/or Bluetooth). Each radio has its own configuration settings and requires specific information about the wireless network to connect. A successful connection depends on your network infrastructure so you may need to consult your network administrator before attempting a connection.

WLAN (802.11a/b/g/n/ac)

The Dolphin 75e has a 802.11a/b/g/n/ac WLAN (Wireless Local Area Network) radio. The radio is interoperable with other 802.11a/b/g/n/ac, Wi-Fi compliant products including access points (APs), workstations via PC card adapters, and other wireless portable devices.






Bluetooth


See [Working with Bluetooth and NFC Technology](#) on page 7-1.

Wi-Fi Network Connections



The Dolphin 75e supports Wi-Fi network connections for open or secure networks that use any of the following security protocols: WPA/WPA2-Enterprise (PEAP, TLS and TTLS), WPA/WPA2-PSK (AES and Mixed-Mode), WEP, and OPEN. By default, the terminal Wi-Fi radio is turned On.

Turning Wi-Fi Networking On or Off

1. In the **Apps list**, touch **Settings**  > **Network & wireless**.
2. Select **Wi-Fi**.
3. Touch the toggle box to turn **Wi-Fi networking** On  or Off .
4. If you turned Wi-Fi networking Off , select when you want Wi-Fi turned back On . You have the option to choose **in 1 hour**, **in 4 hours**, **in 1 day** or **manually**.

You can also temporarily toggle the Wi-Fi On and Off by selecting the  in the Action Center.

Connecting to a Wi-Fi Network




1. In the **Apps list**, touch **Settings**  > **Network & wireless** > **Wi-Fi**.
2. Verify the **Wi-Fi networking** is turned On .

The terminal searches for available Wi-Fi networks within range. If the terminal previously connected to a Wi-Fi network, it automatically reconnects to the same network.
3. Touch the network name you want to connect to from the available Wi-Fi network list.
4. If the network is secured, you are asked to provide information relevant to the network security protocol (e.g., password, key, or certificate). Enter the required information.
5. Touch **Done** to connect.

Connecting to a Hidden Wi-Fi Network

For security reasons, some networks do not broadcast the network name and do not appear on the available network list even if you are in range.

To connect to a hidden network:

1. In the **Apps list**, touch **Settings**  > **Network & wireless** > **Wi-Fi**.
2. Verify the **Wi-Fi networking** is turned On .
3. Select **Manage** and then touch Add .
4. Input the network name, and then tap **Add**. The network name is case sensitive.
5. If the network is secured, you are asked to provide information relevant to the network security protocol (e.g., password, key, or certificate). Enter the required information.
6. Touch **Done** to connect.


Managing Wi-Fi Networks

Viewing and Editing Network Connection Information


When a Wi-Fi connection is active, you can view connection information (e.g., IP address, Subnet mask, Default gateway, DNS and DNS suffix) or edit the network settings by selecting the network name on the Wi-Fi settings screen. If the network connection is not active, touch **Manage** from the Wi-Fi settings screen, and then touch the network name under **Known networks**.

Stopping the Terminal from Automatically Connecting to a Wi-Fi Network

If you do not want the terminal to automatically connect to a known network:

1. In the **Apps list**, touch **Settings**  > **Network & wireless** > **Wi-Fi**.
2. Select **Manage**. You may need to scroll down to view the option.
3. Under **Known networks**, touch the network name.
4. Remove the check from the **Connect automatically** check box.

Deleting a Saved Network



1. In the **Apps list**, touch **Settings**  > **Network & wireless** > **Wi-Fi**.
2. If the terminal is connected to the Wi-Fi network, touch and hold the network name you want to delete, and then select **Delete**.
3. If the terminal does not have an active connection to the network, select **Manage**.
4. Under **Known networks**, touch and hold the network name you want to delete.
5. Select **Delete**.

Advanced Wi-Fi Radio Settings and Security

The **Wi-Fi Radio Settings** network utility provides several options for advanced configuration of the Wi-Fi 802.11 radio in the terminal.

Modifying the Channel Settings



If you want to manually select the channel(s) the 802.11 radio uses:

1. In the **Apps list**, touch **Settings**  > **Extras**.
2. Select **Wi-Fi Radio Settings**.
3. Touch **Channel Settings**, and then swipe left or right to view the channels available under the 2.5GHz, 5GHz, and DFS bands.
4. Select the box next to a channel to enable (check) or disable (no check) the channel for Wi-Fi use.
5. Touch save .

Changing the Roaming Settings

By default roaming is enabled for the 802.11 radio. When enabled, the Wi-Fi radio automatically roams from one access point to another as needed to provide seamless connectivity.


To turn off Wi-fi roaming capabilities On or Off:


1. In the **Apps list**, touch **Settings**  > **Extras**.
2. Select **Wi-Fi Radio Settings**.
3. Touch **Roaming Settings**.
4. Touch the **Roaming** check box to turn roaming On (checked) or Off (not checked).
5. If enabling roaming, you have to option to set **Threshold (-dBm)**, **AP Diff (dBm)** and the **Roam Scan period (ms)** values.
6. Touch save .

Enabling Protected Management Frame (PMF) or AKM with SHA256 Key Derivation


The Dolphin 75e supports AP Protected Management Frame (802.11w) authentication and encryption technology for data communication, which adds protection against attacks targeted for wireless management frames. You can configure the radio to restrict access to APs that meet the PMF standard and enable AKM with SHA256 Key Derivation for added security.


To change the Wi-Fi Radio settings:

1. In the **Apps list**, touch **Settings**  > **Extras**.
2. Select **Wi-Fi Radio Settings** under the extras heading.
3. Touch **PMF Settings**.
4. Modify the following settings to meet your security needs:
 - Check the **PMF Enabled** box to turn On WLAN data communication using Protected Management Frame standards. The default setting for this option is On (checked).
 - Check the **PMF Require** box to restrict AP selection for WLAN data communication to APs that meet PMF standards. The default setting for this option is Off (no check).
 - Check the **AKM with SHA256 Key Derivation** box to use HMAC-SHA256 as the Authentication and Key Management (AKM) suite to protect security. The default setting for this option is Off (no check).

-
5. Touch save .

Changing WLAN Radio Default Behaviors

1. In the **Apps list**, touch **Settings**  > **Extras**.
2. Select **Wi-Fi Radio Settings**.
3. Touch **Other Settings**.
4. Modify the following settings to meet your application needs:
 - Check the **IdlePowerSave Enabled** box to save power when the terminal is not connected to an AP by disabling portions of the radio.
 - Check the **AOAC Enabled** (Always On/Always Connected) box if you want the Wi-Fi to remain on when the screen times out.
 - Choose a **ProtocolPowerSave** setting to define PowerSave enter/exit behavior when the terminal is connected to or disconnected from AC power.
 - **OS Behavior** (default)
Select this option if you want to use the default OS behavior.
By default, the OS instructs the WLAN radio to disable PowerSave when the terminal is connected to an AC power source and to enable (enter) PowerSave when the terminal is using battery power.
 - **Enable**
Select this option if you want the WLAN driver to override the OS default behavior and always use PowerSave.
 - **Disable**
Select this option if you want the WLAN driver to override the OS default behavior and never use PowerSave.
 - Choose **Band** options to control/restrict which band the WLAN radio operates on.
 - **Both**,
Select if you want the WLAN radio to support both 2.4GHz and 5GHz bands.
 - **2.4GHz**
Select if you want the WLAN radio to only support 2.4GHz band.
 - **5GHz**
Select if you want the WLAN radio to only support 5GHz band.

5. Touch save .

Airplane Mode

See [Turning Airplane Mode On/Off](#) on page 1-10.



Virtual Private Networks (VPN)

You can use a Virtual Private Network connection for additional security when connecting to your organization's network or Internet via Wi-Fi. To establish a VPN connection you must first create a VPN profile on the terminal either by setting up a **work account** (see page 5-7) using a profile supplied by your organization or by manually creating a profile. To manually set up a VPN profile, you may need to do one of the following first:

- Ask your ISP or network administrator for the VPN connection settings for your organization (e.g., proxy server name, server type, port, type of Socks protocol used, and your user name and password) if you do not already have the information.
- Visit the Windows Phone Store to download an app for the VPN service you want to use. Check the service provider's web site for any additional installation or set up requirements.

Adding a VPN Profile

To manually set up a VPN profile:

1. In the **Apps list**, touch **Settings**  > **Network & Wireless** > **VPN**.
2. Touch **add** .
3. Select the **Windows (built-in)** for the VPN provider if you have not already downloaded and installed your service provide app.
4. Enter a **Connection name** (e.g., Work VPN, My VPN).
5. In the **Server name or address** box, input the server name or IP address of the VPN server.
6. In the **Type** box, choose one of the following:
 - **Automatic**
 - **Point to Point Tunneling Protocol (PPTP)**
 - **L2TP/IPsec with certificate**
 - **L2TP/IP with pre-shared key or IKEv2** - You will need to enter a Pre-shared key with this connection type.
7. In the **Type of sign-in info** box, choose one of the following:
 - **User Name and Password**
 - **Smart Card**
 - **One-time password**
 - **Certificate**
8. Enter User name and password (optional depending on your connection type).
9. Touch **Save**. Your VPN profile appears on the VPN settings screen.

Connecting to a VPN


The type of VPN profile determines what you need to do to connect to the VPN. Profiles that have been set to connect automatically do not require you to manually connect each time you want to access the VPN. The terminal automatically connects to the VPN when you access the organization's network or Internet sites that have and IP address in the protected IP range.

If you need to connect manually:

1. Once the VPN profile has been created (see [Adding a VPN Profile](#)), select the profile name from the **VPN** setup screen.
2. Select **Connect**.


Note: When a VPN connection is established over the Wi-Fi, VPN appears in the status bar at the top of the screen.*

Disconnecting the VPN

1. In the **Apps list**, touch **Settings**  > **Network & Wireless** > **VPN**.
2. Select the name of the VPN profile and touch **Disconnect**.


Editing or Deleting a VPN Profile

To edit a VPN profile:

1. In the **Apps list**, touch **Settings**  > **Network & Wireless** > **VPN**.
2. Touch the name of the VPN profile you want to edit.
3. Select **Properties**.
4. Edit the connection settings for the profile or select **Edit** to change the original setup data for the profile.

-
5. Select **Save**.

To delete a VPN profile:

1. In the **Apps list**, touch **Settings**  > **Network & Wireless** > **VPN**.
2. Touch the name of the VPN profile you want to delete.
3. Select either **Properties** or **Remove**.
4. Edit the profile information and select **save**.

Working with Certificates

The Windows 10 IoT Mobile Enterprise allows you to install digital certificates for secure client communications with websites and services via three methods: Microsoft Edge, email or mobile device management (MDM). Once a certificate is installed, it can be used when setting up your VPN profiles, Wi-Fi and email accounts. A certificate can only be removed by resetting the terminal.

Installing a Certificate via Microsoft Edge

Some certificates are posted and made available for download through a device-accessible URL.

1. Type the URL in the Microsoft Edge address bar.
2. Select the certificate, it opens on the 75e.
3. When prompted, select to install the certificate.

Installing a Certificate via email

The Windows 10 IoT Mobile Enterprise certificate installer supports .cer, .p7b, .pem, and .pfx files.

1. Open the email that has the encrypted certificate file attached.
2. Save the file to the 75e.
3. Select the file to open it and choose install.
4. Enter any security information (e.g., password, user name) required.

Installing a Certificate via MDM

Administrators can use MDM software to add root and CA certificates or configure the terminal to enroll a client certificate with an enrollment server that supports Simple Certificate Enrollment Protocol (SCEP) used for certificate based client authentication (e.g., Wi-Fi, VPN, email). Contact your Mobile Device Management (MDM) supplier for further assistance.

To learn more about using MDM solutions with Windows 10 IoT Mobile Enterprise, go to the following Microsoft support Web sites:

- <https://technet.microsoft.com>
- <https://technet.microsoft.com/en-us/windows/mt631179>
- <https://technet.microsoft.com/en-us/itpro/windows/manage/windows-10-mobile-and-mdm>


Removing Certificates


A Factory Reset (Clean Boot) is required to remove a certificate installed on the terminal. To learn how to perform a Factory Reset, see [Resetting the Terminal](#) on page 1-12.

Ethernet Communication

See [Establishing Ethernet Communication](#) on page 9-6.

Viewing Network Adapter Information and Renewing/Releasing IP Addresses

The **IPConfig**  app displays, releases, and renews IP parameters for on-board network adapters.

1. In the **Apps list**, touch **IPConfig** .
2. From the **AdapterInfo** screen, touch the box under **Adapter**.
3. Select one of the integrated network adapters installed in the terminal from the drop down menu:
 - **Qualcomm Atheros Wireless LAN Adapter**
 - **Microsoft Wi-Fi Direct Virtual Adapter**

Every field on the screen pertains to the adapter selected from the drop down menu. Swipe up or down to view the following:


- Mac and IP addresses
- Netmask
- Gateway
- DHCP enabled (Yes)
- DHCP server
- Index
- Lease Expiration date
- Lease Obtained date
- Type (e.g. 802.11 or Ethernet CSMACD)

Note: Address assignment is by DHCP only. Static IP configuration is not currently supported on terminals with Microsoft Windows 10 IoT Mobile Enterprise.


Swipe left to view the **NetworkParams** screen. This screen provides information on:


- Host Name
- DNS
- Node Type
- Routing enabled (Yes or No)
- Proxy enabled (Yes or No)

To Renew or Release the IP Address used by the selected adapter:

4. Touch **more**  on the **AdapterInfo** screen.
5. Select either **Renew IP Address** or **Release IP Address**. You can refresh the information shown by selecting .

Using the Ping App to Test a Network Connection

The **Ping**  app provides a GUI-based version of the traditional command line ping utility. Pinging sends out an echo request to a specific computer on the network. Use Ping to verify communication links or to make sure a specific IP address is working.

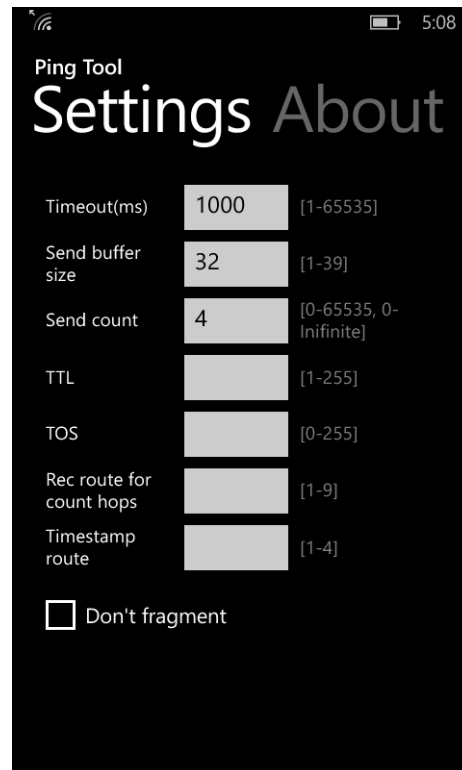
In the **Apps list**, touch **Ping** . The app is organized into three screens: **Ping**, **Settings**, and **About**. You can switch between the screens by swiping left or right.

From the **Ping** screen you can initiate a ping to a specified remote host and see the results. Enter the destination IP address in the box and then touch **Ping**. The results appear in the lower half of the screen. You can configure the parameters of the ping being sent from the **Settings** screen.

Ping



Settings



Note: You do not need to complete all the fields on Settings screen to successfully execute a Ping. Just enter the Destination IP address on the Ping screen.


Configuring the Ping App


Swipe left to access the **Settings** screen and then modify one or more of the following fields:

- **Timeout**
Enter the timeout time in millisecond intervals; 1000 is the default.
- **Send buffer size**
Indicate the buffer size for sending; 32 is the default.
- **Send count**
Indicate the count for sending; 4 is the default. Check Infinite to make the send count infinite.
- **TTL**
Enter the Time To Live (TTL); 1–255. This is the maximum amount of time a packet is allowed to travel through the network before it is discarded.
- **TOS**
Enter the Type of Service (TOS); 1–255. This specifies the value in the IP header for Echo request messages sent.
- **Rec route for count hops**
Enter the number of hops to record in the IP header; 1–9. This field traces the route of the packets for each hop. The hop count is the number of network devices between the starting node and the destination node that an IP packet hits while traveling over a network. The number of hops is recorded in the IP header.
- **Timestamp route**
Enter the number of timestamps to record for each hop; 1–4 The timestamp is the packet's arrival time at each hop.

Check the box next to **Don't Fragment** to specify echo request messages are sent with the Don't Fragment flag in the IP header set to 1. The Echo Request message cannot be fragmented by routers in the path to the destination.

Changing How Data Packets are Routed

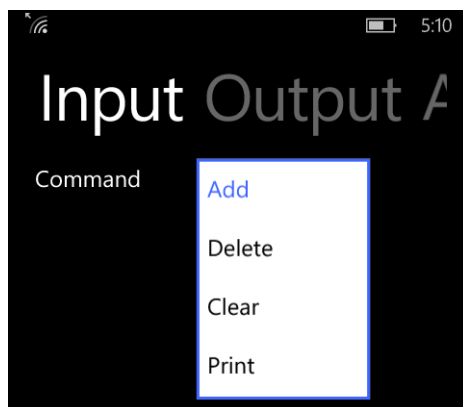
The **Route**  app allows you to view and edit the rules that govern how packets destined for various subnets are routed. These rules tell the device which gateways on a given interface's subnet may be used to route packets to hosts on other subnets.

In the **Apps list**, touch **Route** .

The Route screen opens to the **Input** screen. Route is organized into three screens: **Input**, **Output**, and **About**. Enter and execute a command on the **Input** screen and review the results on the **Output** screen.

Using the Command Options in the Route App

On the **Input** screen, touch the box next to access the available **Commands** (i.e., Add, Delete, Clear or Print).



To add a route:

1. On the **Input** tab, select **Add** from the Commands drop-down list.
2. Specify the range of IP addresses to which this rule will apply using the **Destination** and **Netmask** fields.
3. Enter the **Gateway**.
4. Enter the **Metric** (not always required).
5. Enter the **Interface** (not always required).
6. Touch **Execute**. The system verifies your results and the **Output** screen lets you know if your entry was added successfully.

To delete an active route:

1. On the **Input** tab, select **Delete** from the Commands drop-down list.
2. Enter the IP address in the **Destination** field.
3. Touch **Execute**. The system processes the request and displays how many routes were deleted.

To clear the routing tables of all the gateway entries:

1. On the **Input** tab, select **Clear** from the Commands drop-down list.
2. Touch **Execute**. The system processes your request and the number of entries deleted appears on the **Output** screen.

To print network routing tables to the Output screen:

1. On the **Input** tab, select **Print** from the Commands drop-down list.
2. Touch **Execute**. The **Output** tab displays the network routing table.





Working with Bluetooth and NFC Technology

Bluetooth Technology

Bluetooth is a short-range wireless communications technology used to exchanged data between devices over a distance of approximately 26.2 feet (8 meters). Windows 10 IoT Mobile Enterprise supports both Bluetooth™ 2.1 and 4.0 wireless communication technology.

Turning the Bluetooth Radio On or Off

Before you can connect or pair your terminal to another device using Bluetooth technology, you must first turn on the Bluetooth radio.


1. In the **Apps list**, touch **Settings**  > **Devices**
2. Select **Bluetooth**, and then turn the **Status** to On .



Once the Bluetooth radio is activated, the terminal automatically starts searching for discoverable devices. When a device is found in range, it appears on the screen. The terminal also becomes discoverable to other nearby devices with Bluetooth technology as long as the Bluetooth settings screen is displayed.

Pairing and Trusted Devices

The terminal supports pairing with other devices using Bluetooth technology. Pairing happens during general connection setup. Paired devices are “trusted” devices. This means that there is unrestricted access to all services (including services that require authorization and authentication).


Connecting to Other Bluetooth Devices

To connect to other Bluetooth devices, you need to perform a device search, select a discovered device, and then connect to the selected device. Pairing happens as part of the connection process. After paired with a device, the terminal automatically connects whenever the device is in range, if the Bluetooth radio is turned On , and the terminal is not locked or in sleep mode.

1. Make sure the Bluetooth device you are attempting to connect to is in range and set to be discoverable by other devices using Bluetooth technology. Both the terminal and device must be active (not locked or in sleep mode).
2. In the **Apps list**, touch **Settings**  > **Devices** > **Bluetooth**.
3. Verify the Bluetooth radio **Status** is On .
4. Touch on the name of the device you want to pair with the 75e. As the Bluetooth radio attempts to connect with the device, “pairing” appears under the name.
5. If the device requires a pin, do one of the following:
 - Compare the pin displayed on both the terminal and other device in the Pairing accessory message box. If they match, select **OK**.
 - Enter the pin for the device and then select **Done**.
6. When the devices are paired successfully, “paired” appears under the device name.


Note: When attempting to connect to a printer or headset with Bluetooth capabilities, the pin may default to either 1234 or 0000. If there is no default, consult the device literature for the number.

Disconnecting Paired Bluetooth Devices

1. In the **Apps list**, touch **Settings**  > **Devices** > **Bluetooth**.
2. Touch and hold the name of the paired device, and then select **Delete**.

Making the Terminal Discoverable

By default, the Dolphin terminal is not discoverable by other Bluetooth devices unless the following conditions are met:

- The Bluetooth radio is turned On .
- The Bluetooth settings screen is displayed.
- The screen lock is Off and the terminal is not in sleep mode.


Bluetooth Advanced Options

If your Bluetooth device has problems with speech recognition, select **advanced** on the Bluetooth settings screen. Check the box next to **Use an alternate Bluetooth audio connection for Speech**.

Sharing Photos and Videos

Before attempting to transfer files, make sure the receiving Bluetooth device is in range of the terminal and set to be discoverable by other devices. The device must be able to support the Bluetooth Object Push Profile (OPP) needed for the transfer. Depending on the operating system of the receiving device, you may need to set the device to receive incoming beams (Android devices).

1. Verify the Bluetooth radio is turned on for both devices. See [Turning the Bluetooth Radio On or Off](#) on page 7-1.
2. Pair the terminal with the device that going to receive the file. To learn how, see [Connecting to Other Bluetooth Devices](#) on page 7-1.

3. In the **Apps list** on the terminal, touch **Photos** .

4. Do one of the following:

- To share a photo, browse to and select the photo. Touch **Share**.
- To share a video select **albums > Camera Roll**. Select the video you want to share, and then touch **Share**.

5. Touch **Bluetooth**.

6. On the **Choose Bluetooth device** screen, touch the name of the receiving device from the paired device list.

A message at the top of the screen notifies you the file is **Sharing** with a progress indicator (%).

7. Accept the file transfer on the receiving device. The acceptance procedure depends on the device's OS and security protocols.

A **Transfer complete** message appears at the top of the screen on the Dolphin 75e.

If you are sharing with another Windows 10 IoT Mobile Enterprise, "Done and saved. Tap to view." appears at the top of the screen indicating a successful file transfer.

Near Field Communication (NFC) Technology

NFC technology provides the ability for short-range, wireless data transfer between the terminal and NFC tags or other NFC enabled devices placed in close proximity (tapped) to the back of the terminal. NFC equipped Dolphin 75e models support the following modes of operation:

- **NFC tag Reader/Write mode**
The terminal reads/writes NFC Data Exchange Format (NDEF) information from/to an NFC tag.
- **Peer-to-Peer (P2P) mode**
The terminal uses either Bluetooth or WLAN technology to transfer content (e.g., a picture, contact information, Web page URL, or file) between NFC enabled devices.

Note: Sleep mode (Suspend mode) and the screen lock temporarily turn the NFC radio off.

Hardware Requirements

NFC functionality is hardware dependent and only available on Dolphin 75e models ending with the letter N (e.g., 75exxN). Use only NFC compatible replacement battery doors with NFC equipped Dolphin models.




Security Recommendation

NFC functionality is enabled by default on Dolphin 75e models ending with the letter N (e.g., 75exxN). The recommended setting for NFC functionality is disabled until the feature is required. Enabling NFC allows data exchanges between the terminal and other NFC devices or tags.

NFC Settings

Enabling or Disabling NFC Functionality


To enable or disable NFC for short-range wireless data exchange:



1. In the **Apps list**, touch **Settings**  > **Devices**.
2. Touch **NFC**.
3. Turn On  or Off  **Tap to share** to enable NFC sharing and pairing.
4. Touch **While screen is on** to see more options for NFC sharing permissions. The following options are available:
 - **While phone is unlocked**
 - **While screen is on**
 - **Anytime**

Note: The Dolphin 75e does not currently support the Tap to pay feature.

Sharing Photos and Videos

To share files between the terminal and another device using NFC technology:

- The Bluetooth radio must be enabled on both the terminal and the other device. Depending on the OS of the other device, you may also need to enable other options. Consult the user documentation for the device.
- NFC functionality must be enabled on both devices. On the Dolphin 75e, **Tap to share** must be turned On  under NFC settings. Depending on the OS of the other device, you may also need to enable other options. Consult the user documentation for the device.

1. In the **Apps list** on the terminal, touch **Photos** .
2. Do one of the following:
 - To share a photo, browse to and select the photo. Touch **Share**.
 - To share a video select **Albums** > **Camera Roll**. Select the video you want to share, and then touch **share** .
3. Touch **Tap to share (NFC)**.
4. Hold the terminal and the other device back to back.

A message at the top of the screen notifies you the file is **Waiting** for the other device to approve the transfer.

5. **Accept** the file transfer on the receiving device. The acceptance procedure depends on the device's OS and security protocols.

Once the transfer is accepted, the message at the top of the screen notifies you the file is **Sharing** and a progress indicator (%) is shown. When the Dolphin 75e is done sending, **Transfer complete** appears.

If you are sharing with another Dolphin 75e, "Done and saved. Tap to view." appears at the top of the screen to indicate a successful file transfer.

Reading NFC Tags

Embedded NFC tags can be included in business cards, advertising media, books and posters. When the tag is read by the terminal, the information contained on the tag can be quickly saved, for example, a person's contact information. The tag might also include a URL opens a coupon, additional product information or a company Web site.

To read an NFC tag:

1. Hold the NFC tag close to the back of the terminal.
2. When an NFC tag is recognized, touch **Accept** to open the contact or website.

Dolphin 70e Black HomeBase (Model 70e-HB)

Overview

The Dolphin 70e Black HomeBase (Model 70e-HB) is a charging and communication cradle that supports USB Hi-Speed 2.0v communication, which enables the terminal to interface with the majority of PC-based enterprise systems. The HomeBase also contains an auxiliary battery well that charges a spare Honeywell standard or extended battery.

The 70e-HB charger is designed for use with the following Dolphin models and batteries manufactured for Honeywell International Inc:

Dolphin Models	Battery Model No.	Battery Part No.	Battery Specification
Dolphin 75e Dolphin 70e	70e-BTSC	BAT-STANDARD-02	Li-ion 3.7V, 6.179 watt hour
	70e-BTEC	BAT-EXTENDED-02	Li-ion 3.7V, 12.358 watt hour



We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.

Unpacking the HomeBase

Open the shipping box and inspect the package to see that the following standard items are included:

- One Dolphin HomeBase, model 70e-HB
- One power supply (see [Power](#) on page 8-4)
- One power cord

These items are needed to operate the HomeBase. If any items are missing or anything appears to be damaged, contact your Customer Account Representative. Keep the original packaging in case you need to return the HomeBase for service or to store the HomeBase while not in use.

Optional Equipment

A standard USB (Type A to B) cable is required when using the HomeBase for communication between the terminal and a host device.

Charging Overview

The base provides power to the intelligent battery charging system in all Dolphin terminals that senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge. The base completes a full charge of the main battery installed in the terminal seated in the terminal well in 4 hours for the standard battery or 6 hours for the extended battery. The base completes a full charge of the battery pack in the [Auxiliary Battery Well](#) (see page 8-3) in 4 hours for the standard battery or 6 hours for the extended battery.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the [Guidelines for Battery Pack Use and Disposal](#) on page 2-13.



We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

Convenient Storage

The intelligent battery charging system makes this base a safe and convenient storage receptacle for your Dolphin terminal.

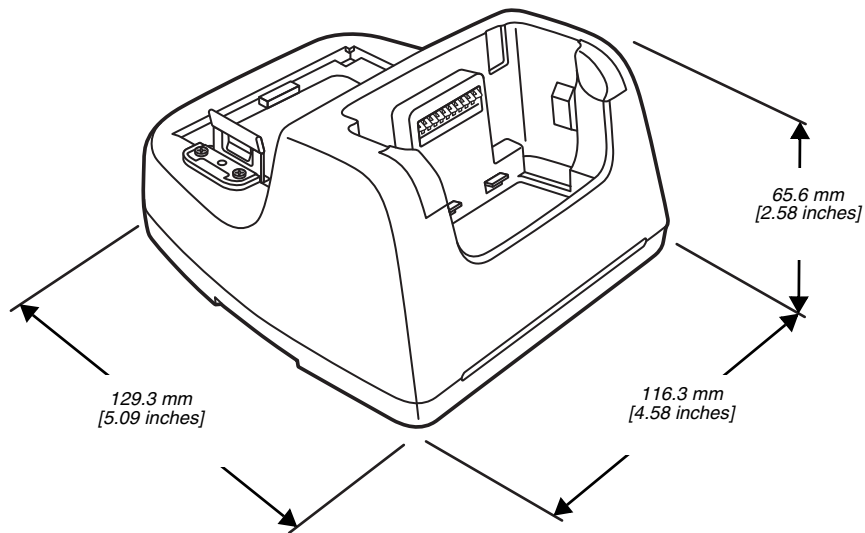
Capacity

The base holds one terminal and features an auxiliary battery well behind the terminal well that can charge a battery pack independently of the terminal well. This means that one base can charge two battery packs: the one installed in the terminal and a spare.



We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.

Dimensions



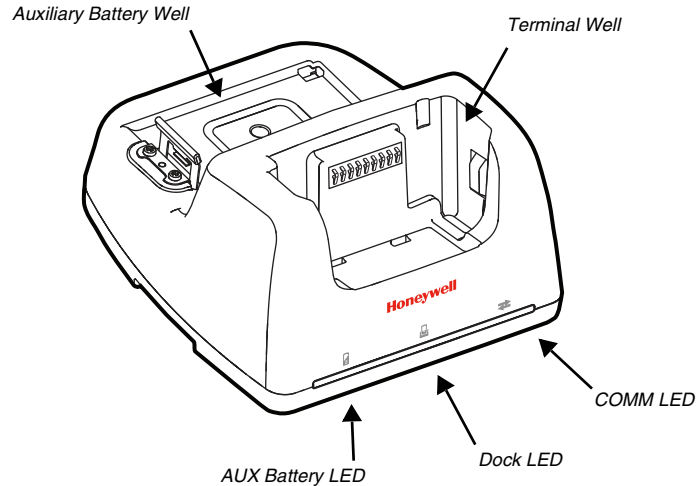
Weight

HomeBase weight: 303g [.668 lbs]

Note: Weight excludes packaging, cables and power supply.

Parts and Functions

Front Panel



Terminal Well

Place the terminal in this well to communicate with a host device, power the terminal, and charge the installed battery pack. The base completely charges the main battery in a Dolphin terminal in 4 hours for the standard battery or 6 hours for the extended battery. See [page 8-6](#) for information on USB [Communication](#) between the host and terminal via the HomeBase.

Auxiliary Battery Well

See "Auxiliary Battery Well" on page 8-4

AUX Battery LED

Indicates status of the battery charging in the auxiliary battery well; see [Back Panel](#) on page 8-4.

This color	means...
Orange	The auxiliary battery is charging.
Green	The auxiliary battery has completed charging and is ready for use.

For information about charging a battery in the auxiliary battery well, see page 8-5.

Dock LED

Indicates if a terminal is docked properly in the base.

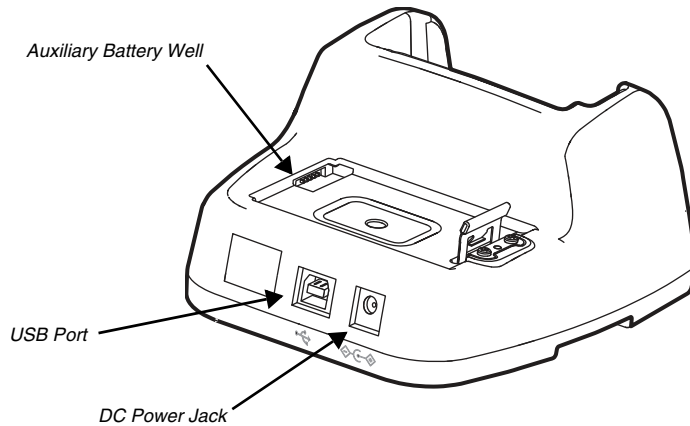
This color	means...
Blue	The terminal is properly seated in the base.

COMM LED

This is the communication LED. It indicates the status of data transfer between the Dolphin terminal and the host device.

This color	means...
Green	A USB Connection is established with the host workstation.

Back Panel



Auxiliary Battery Well

The base enables you to charge an additional battery pack independently of the terminal well in 4 hours for the standard battery or 6 hours for the extended battery. This feature ensures that you can always have a fully-charged battery for your terminal. See [Charging a Spare Battery in the Auxiliary Battery Well](#) on page 8-5.

USB Port

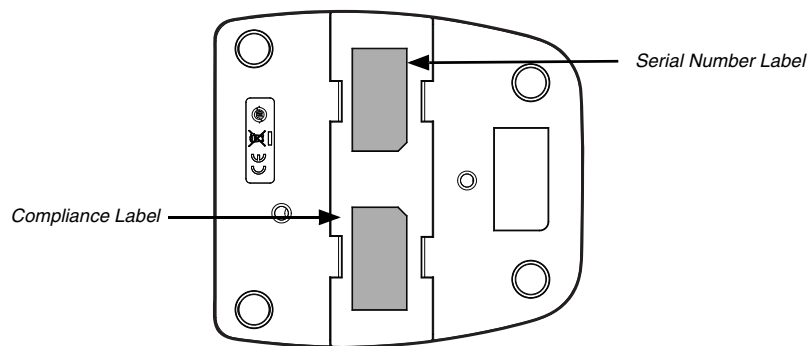
This USB port is USB v2.0 Hi-Speed (480 Mbps) compliant. Using a USB cable, you can connect the base to a host device, such as a workstation. When the terminal is seated in the terminal well, it is connected to the host device via the base. See [Communication](#) on page 8-6.

DC Power Jack

See [Power](#) on page 8-4.

Bottom Panel

For details on how to mount the HomeBase, see [Mounting the HomeBase](#) on page 8-6.



Power

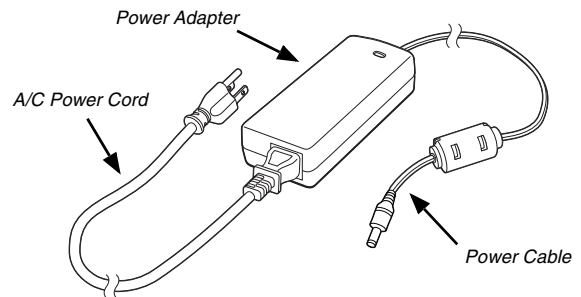
The base requires 12 Volts DC input for communications, battery charging, and power output to the terminal. The power adapter included with the base, converts the voltage from the AC power source to 12 Volts DC. **Use only a UL listed power supply, which has been qualified by Honeywell with output rated at 12VDC and 3 amps with the device.** The operating temperature range is -10° to 50°C (14° to 122°F). Honeywell recommends that you leave the base connected to its power source at all times, so that it is always ready to use.



We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.

Connecting Power to the HomeBase

1. Plug the A/C power cord into the power adapter.
2. Plug the power cable into the power connector on the back of the HomeBase.
3. Plug the A/C power cord into a grounded power source.
4. The base is now powered.



Charging the Main Battery

The base provides power to the Dolphin terminal and allows the charging of the terminal's battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that Dolphin terminals may be stored in the base indefinitely without damage to the terminals, battery, or the base. When the terminal is docked, the base completes a full charge in 4 hours for the standard battery or 6 hours for the extended battery.



For more information about Honeywell battery packs and how to check battery power levels in your terminal, refer to [Battery](#) (page 2-8).

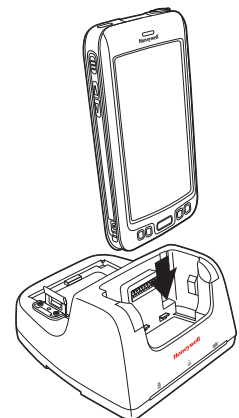
To Power a Terminal and Charge its Main Battery



Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.

1. Install the battery pack in the terminal; see [Install the Battery](#) on page 1-1.
2. Slide the terminal into the terminal well. The Dock LED illuminates blue. Battery charging begins immediately if required by the Dolphin terminal.

Note: When the terminal is docked, the Battery Icon changes from  to  indicating the terminal is running on external power. Battery charging occurs in the background. When the Dolphin is removed from the base, the battery icon indicates the charge level of the battery, see [Common Status and Notification Icons](#) on page 1-7.



We recommend use of Honeywell Li-Ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

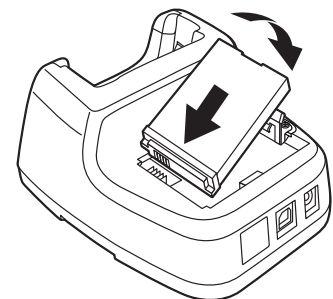
Charging a Spare Battery in the Auxiliary Battery Well

The auxiliary battery well located on the back of the base charges a spare battery independently of the terminal well. The Aux Battery LED on the front panel indicates the status of the battery in this well. Charge time is 4 hours for the standard battery pack or 6 hours for the extended battery pack; see [Auxiliary Battery Well](#) on page 8-4.

1. Insert the battery at an angle.

Note: Align the battery contacts with the contacts inside the auxiliary battery well.

2. Snap the battery into place with a hinging motion. The Aux Battery LED lights orange during charging.
3. Use the AUX Battery LED to monitor the charging progress. The LED changes to green when the auxiliary battery has completed charging and is ready for use.



Communication

Dolphin terminals support USB communications out of the box. The base also supports USB communications via the USB port located on the back. The base acts as a USB device by interfacing the USB signals of the Dolphin terminal to the USB of the host workstation. Using a standard USB cable, the base's USB interface allows the Dolphin terminal to communicate with a workstation.

Note: This base cannot be daisy-chained.

Requirements

- A base powered by a power cable and power adapter cable
- A standard USB (Type A to B) communication cable
- A work station running Windows XP, Windows Vista, or Windows 7.

Establishing USB Communication

1. Connect power to the HomeBase (see [Power](#) on page 8-4).
2. Plug the USB communication cable into the USB port on the back of the base.
3. Connect the other end of the USB cable to the host workstation.
4. Insert the Dolphin terminal into the terminal well of the base. The Dock LED illuminates blue.
5. If you have a computer running Windows® 10, open the Phone Companion app from **Start > All apps**.

If you have a computer running Windows 8 or Windows 8.1, the Windows Phone® app automatically opens when you connect the terminal to the computer using the USB charge/communication cable supplied

If you have a computer running Windows 7 or Mac, go to www.windowsphone.com to download and install the Windows Phone app for desktop or Mac. In the Windows Phone app, set your phone name and sync preferences.

6. In the Phone Companion app, select Windows as your terminal platform, and then set your sync preferences.

In the Windows Phone app, set your phone name and sync preferences. You can always modify your preferences later by selecting Settings in the upper right corner of the app screen.

If you want to use File Explorer or Windows Explorer to transfer files between your Dolphin terminal and PC without using the Windows Phone app, see [Using File Explorer or Windows Explorer to Transfer Files](#) on page 1-14.

Note: The Dolphin terminal should always be removed from the HomeBase when connecting or disconnecting the USB cable.

Mounting the HomeBase

Set the base on a dry, stable surface, such as a desktop or workbench near an electrical outlet. The user should be able to view and operate the Dolphin terminal while it is in the base. When choosing a mounting location, bear in mind that the location must allow users' easy access to the Auxiliary Battery Well and the back panel of the HomeBase where the USB port and the power jack are located.

Optional DIN Rail Mount

A DIN rail (7.5 X 35 mm) may be installed on the bottom of the base to provide the optional security of mounting the base to a flat horizontal surface with hardware.

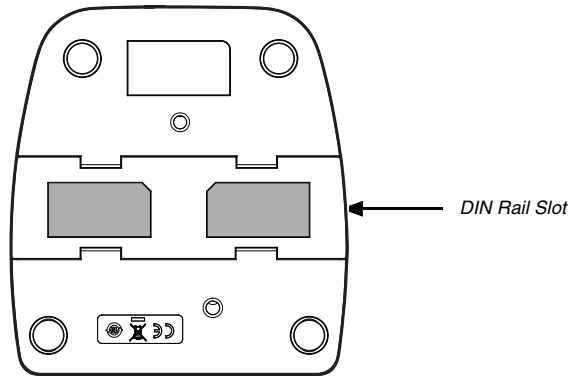
Additional Hardware

- DIN Rail, Qty. 1
- 3/16 in. dia x 5/8 in. long pan head screw, Qty. 2
- 1/2 in. OD x 7/32 in. ID x 3/64 in. thick washer, Qty. 4
- 3/16 in. dia nut, Qty. 2

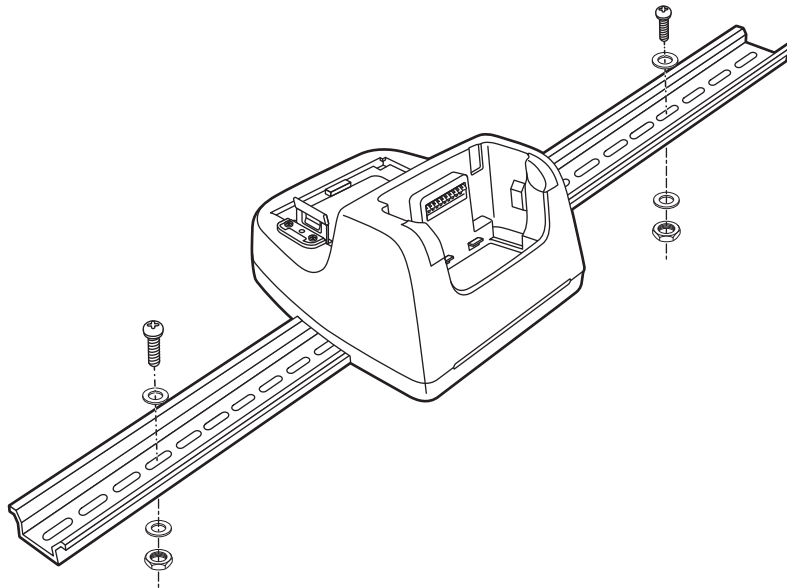
Note: The items listed are for reference only. Final hardware selection is dependent on the material type and thickness of the mounting surface.

Installing the DIN Rail

1. Slide the DIN rail into the slot along the bottom panel of the base.



2. Use the appropriate hardware to secure the DIN rail to the desk or flat surface.





Dolphin 70e Black eBase (Model 70e-EHB)

Overview

The Ethernet Base (eBase) enables a single Dolphin 75e computer to communicate with a host device over an Ethernet network. The 70e-EHB charger is designed for use with the following Dolphin models and batteries, manufactured for Honeywell International Inc:

Dolphin Models	Battery Model No.	Battery Part No.	Battery Specification
Dolphin 75e Dolphin 70e	70e-BTSC	BAT-STANDARD-02	Li-ion 3.7V, 6.179 watt hour
	70e-BTEC	BAT-EXTENDED-02	Li-ion 3.7V, 12.358 watt hour



We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.

Unpacking the eBase

Open the shipping box and inspect the package to see that the following standard items are included:

- One Dolphin eBase Ethernet cradle, model 70e-EHB
- One power supply (see [Power](#) on page 9-4)
- One power cord

These items are needed to set up and operate the eBase. If any items are missing or anything appears to be damaged, contact your Customer Account Representative. Keep the original packaging in case you need to return the eBase for service or to store the eBase while not in use.

Optional Equipment

- A standard USB (Type A to B) cable is required when using the eBase for USB communication between the terminal and a host device.
- A standard CAT-5 Ethernet network cable is required when using the eBase for communication between the terminal and a host device over an Ethernet network.

Charging Overview

The base provides power to the intelligent battery charging system in all Dolphin terminals that senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge. The base completes a full charge of the main battery pack installed in the terminal seated in the terminal well in 4 hours for the standard battery or 6 hours for the extended battery. The base completes a full charge of the battery pack in the [Auxiliary Battery Well](#) (see page 9-3) in 4 hours for the standard battery or 6 hours for the extended battery.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the [Guidelines for Battery Pack Use and Disposal](#) on page 2-13.



We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

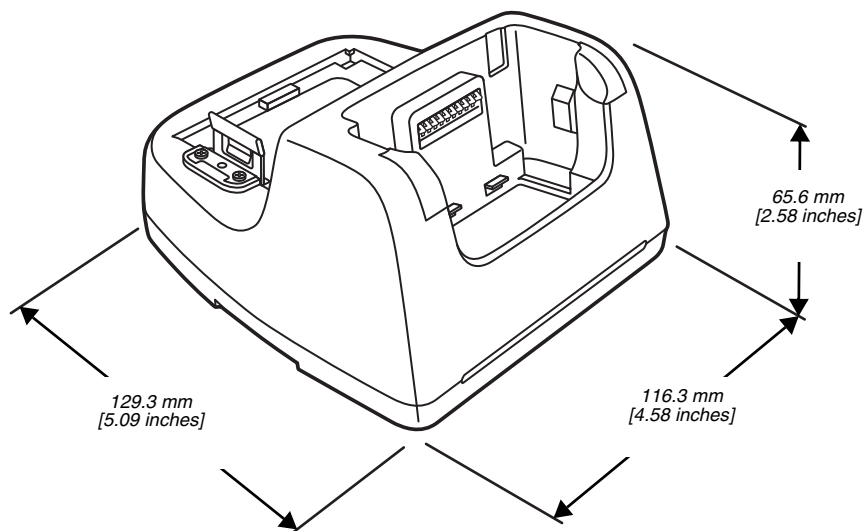
Convenient Storage

The intelligent battery charging system makes this base a safe and convenient storage receptacle for your Dolphin terminal.

Capacity

The base holds one terminal and features an auxiliary battery well behind the terminal well that can charge a battery pack independently of the terminal well. This means that one base can charge two battery packs: the one installed in the terminal and a spare.

Dimensions



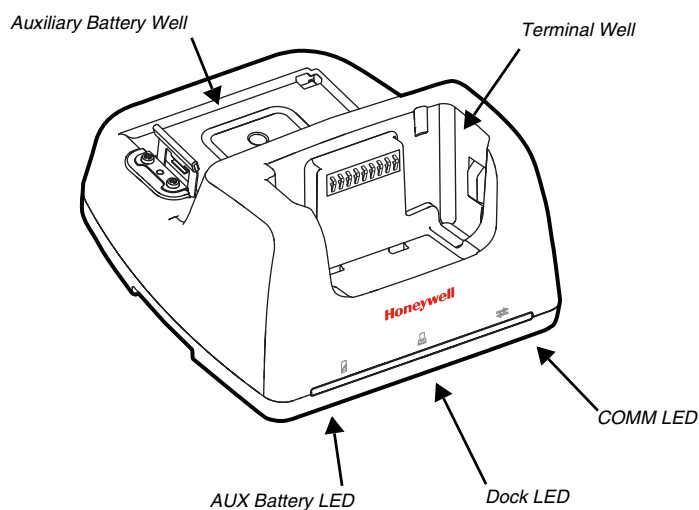
Weight

eBase weight: 310g [.683 lbs]

Note: Weight excludes packaging, cables and power supply.

Parts and Functions

Front Panel



Terminal Well

Place the terminal in this well to communicate with a host device, power the terminal, and charge the installed battery pack. The eBase completely charges the main battery in a Dolphin terminal in 4 hours for the standard battery or 6 hours for the extended battery.

Auxiliary Battery Well

See "Auxiliary Battery Well" on page 9-3

AUX Battery LED

Indicates status of the battery charging in the auxiliary battery well; see [Back Panel](#) on page 9-3.

This color	means...
Orange	The auxiliary battery is charging.
Green	The auxiliary battery has completed charging and is ready for use.

For information about charging a battery in the auxiliary battery well, see page 9-5.

Dock LED

Indicates if a terminal is docked properly in the base.

This color	means...
Blue	The terminal is properly seated in the base.

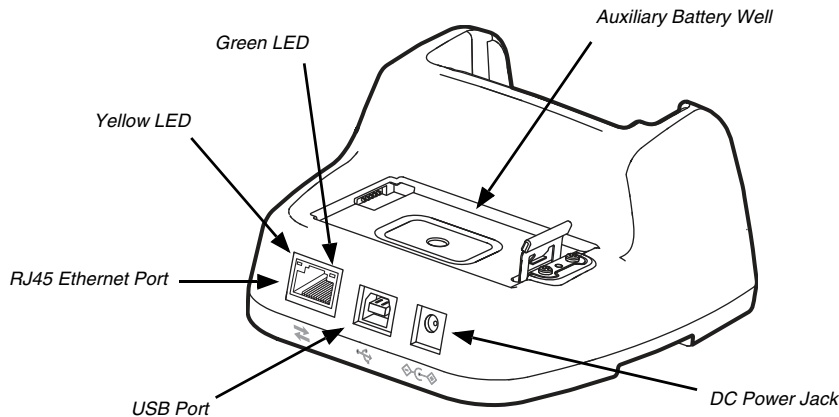
COMM LED

Indicates the status of the connection and data transfer between the Dolphin terminal and the host device.

This color	means...
Green	A USB Connection is established with the host workstation.

Note: Ethernet activity is indicated by RJ45 integrated LED on the back panel of the base.

Back Panel



Auxiliary Battery Well

The eBase enables you to charge an additional battery pack independently of the terminal well in 4 hours for the standard battery or 6 hours for the extended battery. This feature ensures that you can always have a fully charged battery for your terminal.

USB Port

This USB port is USB v2.0 Hi-Speed (480 Mbps) compliant. Using a USB cable, you can connect the base to a host device, such as a workstation (PC). When the terminal is seated in the terminal well, it is connected to the host device via the base.

RJ45 Ethernet Port

Use a standard CAT-5 Ethernet cable; you can connect the ebase to an Ethernet-compliant device to facilitate Ethernet communication to and from the terminal. The RJ45 connector includes integrated LEDs that provide Ethernet communication status and speed information.

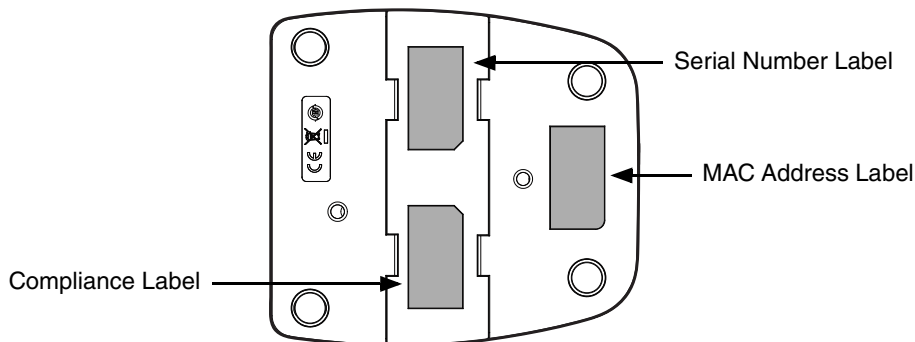
Status	Yellow LED	Green LED
No Ethernet Link	Off	Off
10Mbps Ethernet Connection Established	Off	On
100Mbps Ethernet Connection Established	On	On
Data transfer in progress	Connection Speed Dependent (see above)	Flashing

DC Power Jack

This connector receives input from the power adapter. Plug the power connector cable from the power adapter into this connector, see [Power](#).

Bottom Panel

For details on how to mount the eBase, see [Mounting the eBase](#) on page 9-7.



Power

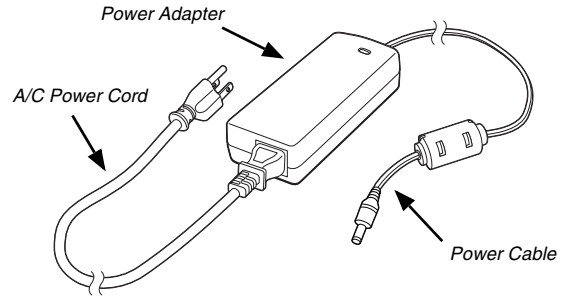
The base requires 12 Volts DC input for communications, battery charging, and power output to the terminal; the power adapter included with the base converts the voltage from the AC power source to 12 Volts DC. **Use only a UL listed power supply, which has been qualified by Honeywell with output rated at 12VDC and 3 amps with the device.** The operating temperature range is -10° to 50°C (14° to 122°F). Honeywell recommends that you leave the eBase connected to its power source at all times, so that it is always ready to use.



We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.

Connecting Power to the eBase

1. Plug the A/C power cord into the power adapter.
2. Plug the power cable into the power connector on the back of the eBase.
3. Plug the A/C power cord into a grounded power source.



Charging the Main Battery

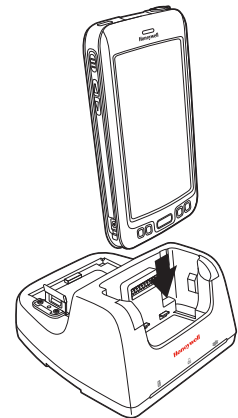
The base provides power to the Dolphin terminal and allows the charging of the terminal's battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that Dolphin terminals may be stored in the base indefinitely without damage to the terminals, battery packs, or the base. When the terminal is docked, the base completes a full charge in 4 hours for the standard battery or 6 hours for the extended battery.

For more information about Honeywell battery packs and how to check battery power levels in your terminal, refer to [Battery](#) (page 2-8).



To Power a Terminal and Charge its Main Battery



Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.



1. Install the battery pack in the terminal; [see page 1-1](#).
2. Slide the terminal into the terminal well. The Dock LED illuminates blue. Battery charging begins immediately if required by the Dolphin terminal.

Note: When the terminal is docked, the Battery Icon changes from  to , indicating the terminal is running on external power. Battery charging occurs in the background. When the Dolphin is removed from the base, the battery icon indicates the charge level of the battery, see [Common Status and Notification Icons](#) on page 1-7.

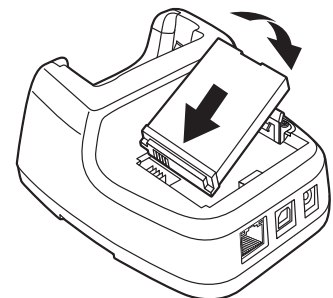


We recommend use of Honeywell Li-Ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

Charging a Spare Battery in the Auxiliary Battery Well

The auxiliary battery well located on the back of the base charges a spare battery independently of the terminal well. The Aux Battery LED on the front panel indicates the status of the battery in this well. Charge time is 4 hours for the standard battery pack or 6 hours for the extended battery pack; see [Auxiliary Battery Well](#) on page 9-3.

1. Insert the battery at an angle.
Note: Align the battery contacts with the contacts inside the auxiliary battery well.
2. Snap the battery into place with a hinging motion. The Aux Battery LED lights orange during charging.
3. Use the AUX Battery LED to monitor the charging progress. The LED lights green when the auxiliary battery has completed charging and is ready for use.



Communication

Establishing Ethernet Communication

Connecting the Dolphin Terminal to the eBase

By default, the Dolphin terminal is configured to obtain IP addresses automatically via DHCP server. This means that in most cases you would simply plug-and-play the unit.

1. Connect power to the eBase (see [Power](#) on page 9-4).
2. Plug the CAT-5 Ethernet cable into the RJ45 connector on the back of the eBase.
3. Plug the Ethernet cable into the network.
4. Insert the Dolphin into the terminal well. The Dock LED on the base illuminates blue.

Displaying the eBase and Terminal IP Address

Once the Dolphin terminal has been successfully connected to the network through eBase, the terminal uses the eBase IP address. The IP address can be used by any application on the Dolphin terminal.

In the **Apps list**, touch **DiagnosticInfoW10**  to view the assigned IP Address.

Establishing USB Communication

Dolphin terminals support USB communications out of the box. The base also supports USB communications via the USB port located on the back. The base acts as a USB device by interfacing the USB signals of the Dolphin terminal to the USB of the host workstation. Using a standard USB cable, the base's USB interface allows the Dolphin terminal to communicate with a workstation.

Note: This base cannot be daisy-chained.

Requirements

- A base powered by a power cable and power adapter cable
- A standard USB (Type A to B) communication cable
- A work station running Windows XP, Windows Vista, Windows 8 or Windows 7.

Setting Up and Connecting the Dolphin Terminal to an eBase

1. Connect power to the HomeBase (see [Power](#) on page 9-4).
2. Plug the USB communication cable into the USB port on the back of the base.
3. Connect the other end of the USB cable to the host workstation.
4. Insert the Dolphin terminal into the terminal well of the base. The Dock LED illuminates blue.
5. If you have a computer running Windows® 10, open the Phone Companion app from **Start > All apps**.

If you have a computer running Windows 8 or Windows 8.1, the Windows Phone® app automatically opens when you connect the terminal to the computer using the USB charge/communication cable supplied

If you have a computer running Windows 7 or Mac, go to www.windowsphone.com to download and install the Windows Phone app for desktop or Mac. In the Windows Phone app, set your phone name and sync preferences.

6. In the Phone Companion app, select Windows as your terminal platform, and then set your sync preferences.

In the Windows Phone app, set your phone name and sync preferences. You can always modify your preferences later by selecting Settings in the upper right corner of the app screen.

If you want to use File Explorer or Windows Explorer to transfer files between your Dolphin terminal and PC without using the Windows Phone app, see [Using File Explorer or Windows Explorer to Transfer Files](#) on page 1-14.

Note: The Dolphin terminal should always be removed from the HomeBase when connecting or disconnecting the USB cable.

Mounting the eBase

Set the base on a dry, stable surface, such as a desktop or workbench near an electrical outlet. Be sure to provide enough workspace with good lighting for the user to view and operate the Dolphin terminal while it is in the base. When choosing a mounting location, bear in mind that the location must allow users' easy access to the Auxiliary Battery Well and the back panel of the eBase where the USB port, Ethernet port, and power jack are located.

Optional DIN Rail Mount

A DIN rail (7.5 X 35 mm) may be installed on the bottom of the base to provide the optional security of mounting the base to a flat horizontal surface with hardware.

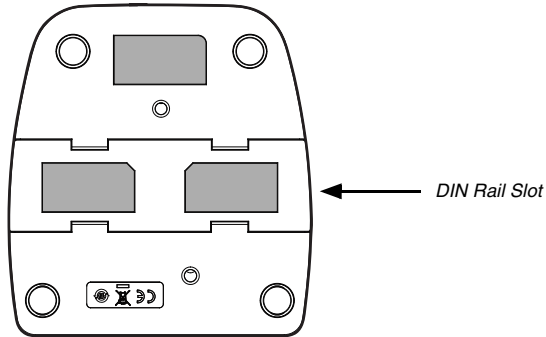
Additional Hardware

- DIN Rail, Qty. 1
- 3/16 in. dia x 5/8 in. long pan head screw, Qty. 2
- 1/2 in. OD x 7/32 in. ID x 3/64 in. thick washer, Qty. 4
- 3/16 in. dia nut, Qty. 2

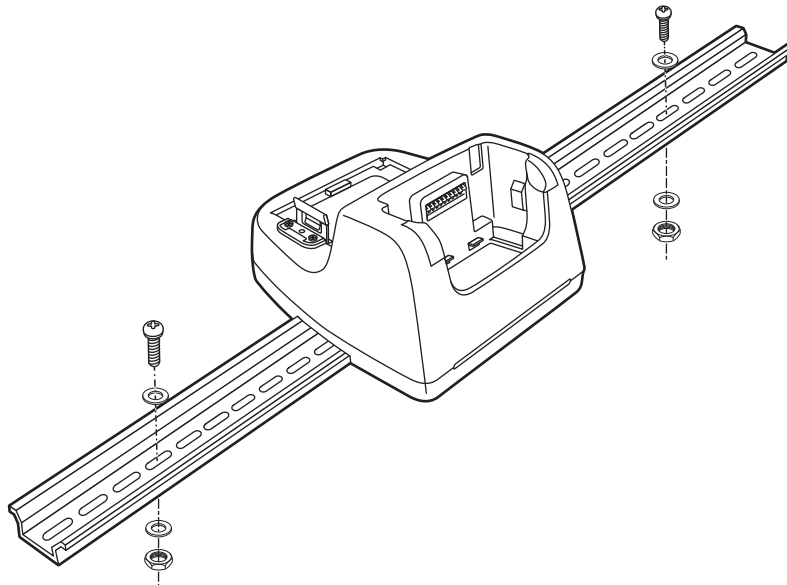
Note: The items listed above are for reference only. Final hardware selection is dependent on the material type and thickness of the mounting surface.

Installing the DIN Rail

1. Slide the DIN rail into the slot along the bottom panel of the base.



2. Use the appropriate hardware to secure the DIN rail to the desk or flat surface.





Dolphin 70e Black Mobile Base (Model 70e-MB)

Overview

The Dolphin Mobile Base charging cradle is designed specifically for in-premise and in-transit data collection applications. The base features a mounting bracket and a cigarette lighter adapter to adapt it to your environment.

The 70e-MB charger is designed for use with the following Dolphin models and batteries manufactured for Honeywell International Inc:

Dolphin Model	Battery Model No.	Battery Part No.	Battery Specification
Dolphin 75e Dolphin 70e	70e-BTSC	BAT-STANDARD-02	Li-ion 3.7V, 6.179 watt hour
	70e-BTEC	BAT-EXTENDED-02	Li-ion 3.7V, 12.358 watt hour



We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.

Charging Overview

The base provides power to the intelligent battery charging system in all terminals that senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge. The base completes a full charge of the main battery in 4 hours for the standard battery pack or 6 hours for the extended battery pack.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the [Guidelines for Battery Pack Use and Disposal](#) on page 2-13.

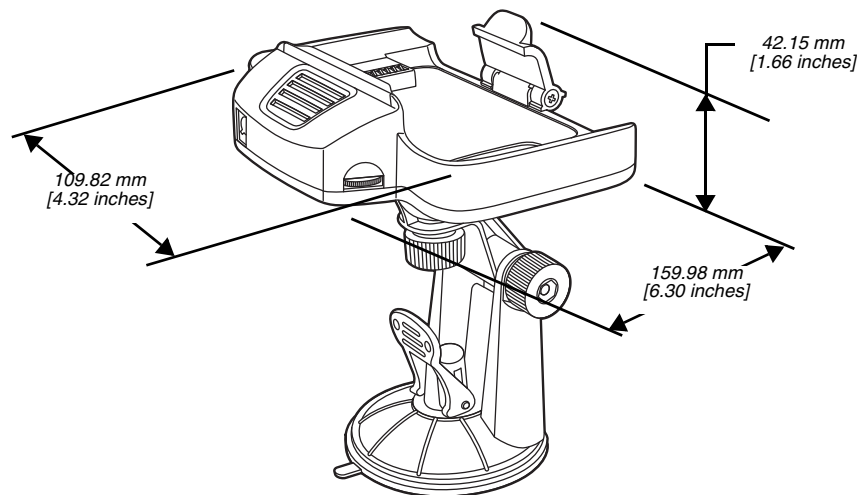


We recommend use of Honeywell Li-Ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

Convenient Storage

Intelligent battery charging makes the base a safe and convenient storage receptacle for your Dolphin terminal.

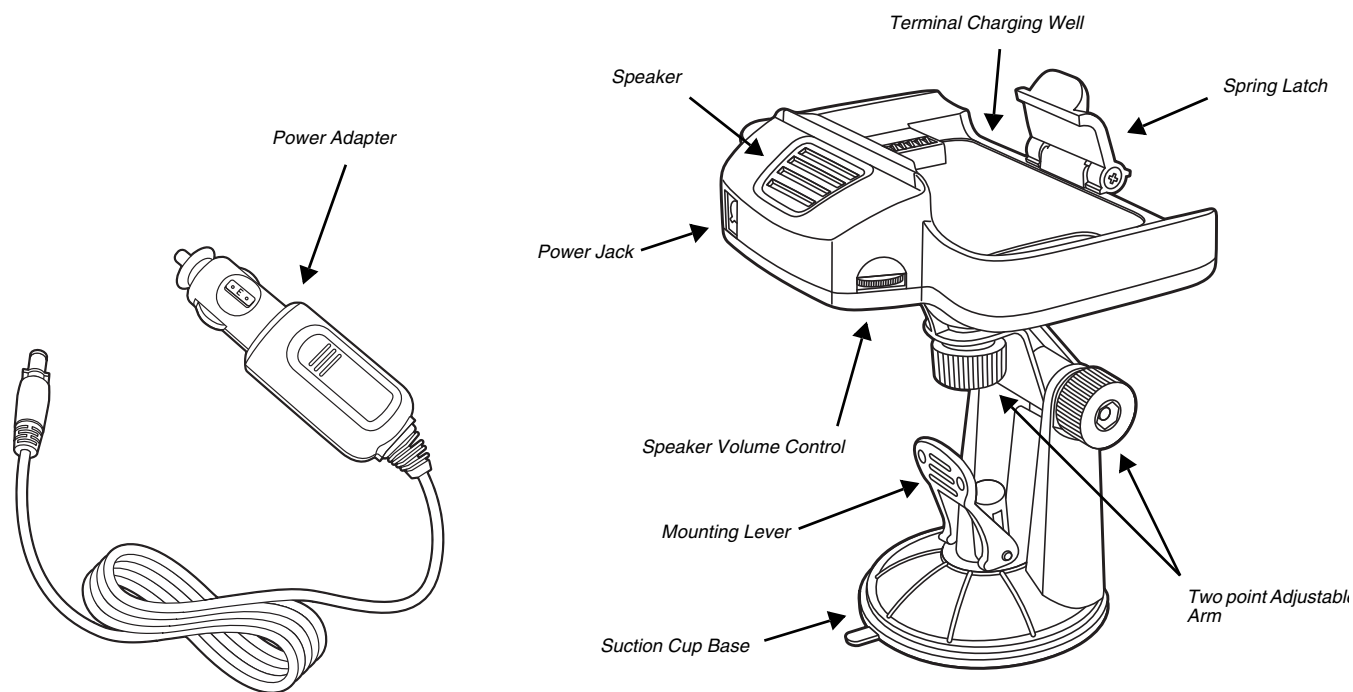
Dimensions



Weight

Mobile Base and adjustable arm weight: 270g [.595 lbs]

Mobile Base Components



Adjustable Arm with Suction Cup Base for Windshield Mounting

The Mobile Base includes a two point adjustable arm with a suction cup base for fixed mount locations (e.g., a car windshield).

Power Adapter

The mobile base is provided with a power adapter cable that can be connected to a vehicle cigarette lighter outlet.

UL listed power supply

Input: 10V - 30VDC, 0.43A(30V) - 1.28A(10V)

Output: 4.75V - 5.25VDC, 0 - 2A



Verify that the power source is always within the specified range and observe correct input voltage polarity. An improper input voltage range or reverse polarity could damage the power conversion circuitry.

Speaker and Volume Control Dial

The integrated speaker amplifies the Dolphin terminal's audio signals and the speaker volume is adjusted using the dial located on the side of the base.

Spring Latch

The spring latch secures the terminal in the Mobile Base charging well.

Terminal Charging Well

Place the terminal in this well to charge the battery.

Mounting the Mobile Base

Safety Precautions

Honeywell is not responsible for any damages caused to you, your vehicle, or other individuals due to the installation of the Dolphin Mobile mount. Follow these safety precautions when mounting the mobile base:



Do not mount the base in a location where it prevents safe operation of the vehicle and/or impedes the vehicle operator's field of view.



Do not mount the base in a location where the connectors on the bottom panel of the base are not easily accessible. Be sure to leave enough room for unrestricted cable connections.



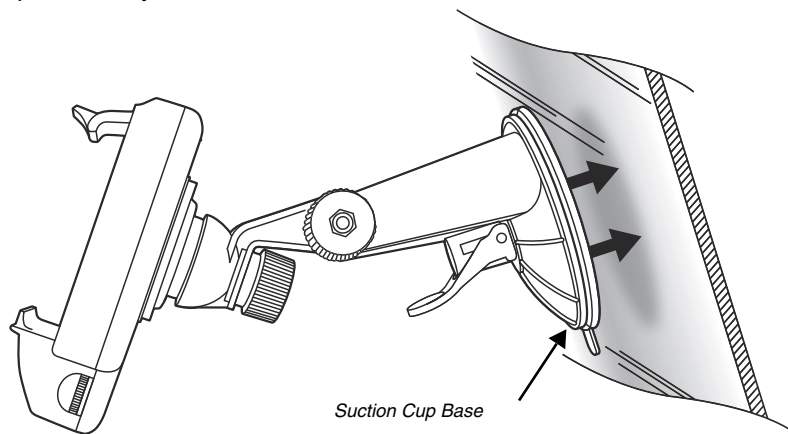
The Mobile base is intended for use in an enclosed space protected from the elements. Do not mount the Mobile base on external vehicle surfaces.



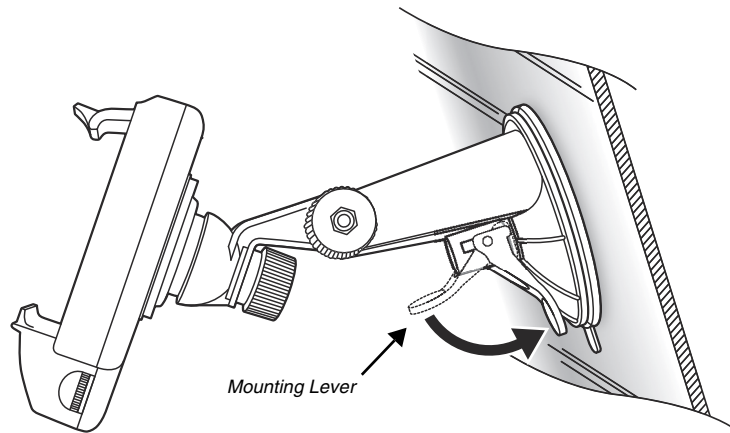
Do not install the Mobile base in an air bag deployment zone. Honeywell assumes no responsibility of liability for injury or death because of car crashes and/or air bag deployment.

Installation

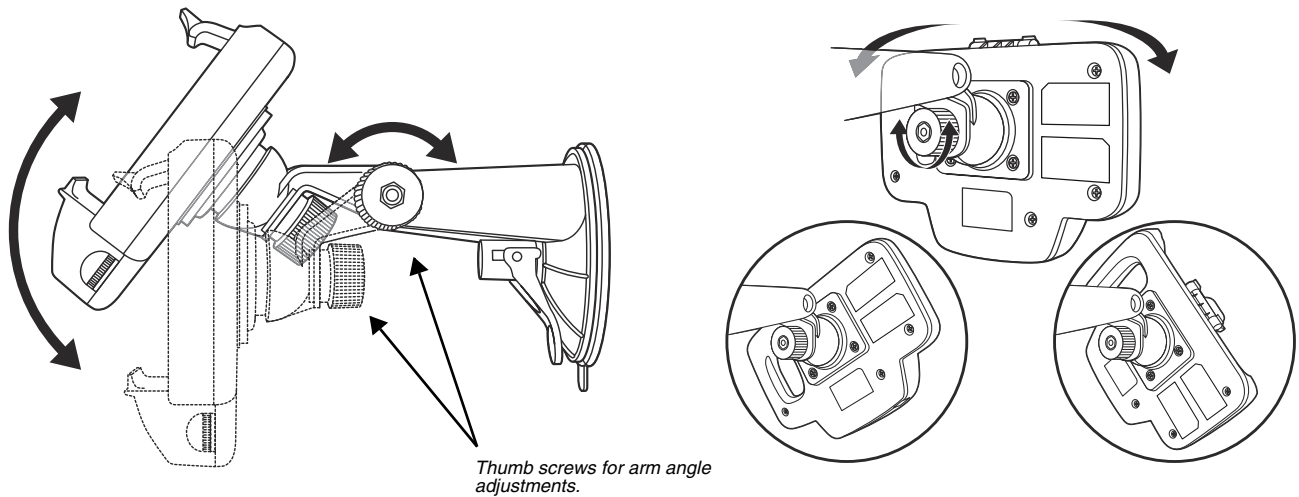
1. Push the suction cup base firmly to the windshield.



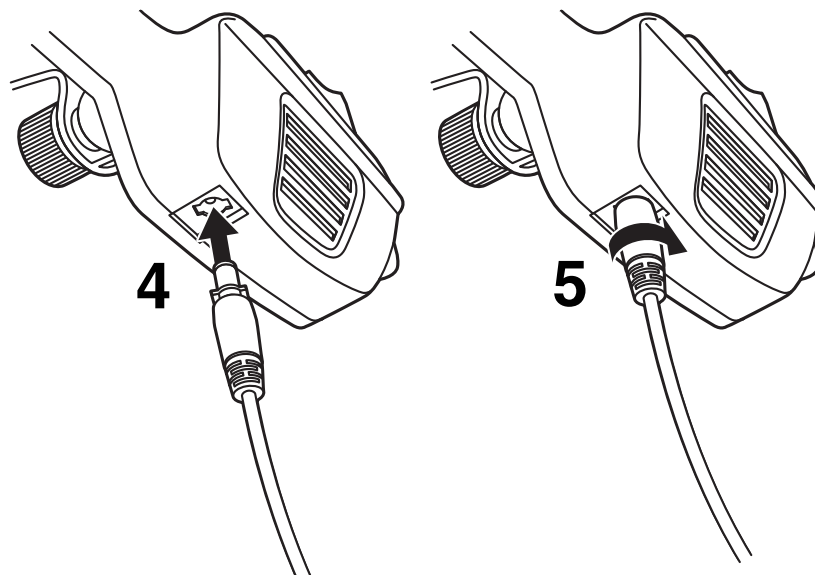
2. Flip the mounting lever down to secure the suction cup.



-
3. To adjust the angle of the bracket arm, twist the thumb screws counterclockwise to loosen the locks. Reposition the angle of the arm, and then twist the knobs clockwise to lock the arm into position.



4. Insert the power cable connector into the power jack on the Mobile Base.
5. Twist the cable connector 90° clockwise to engage the cable lock.



6. Plug the power adapter into the vehicle power outlet (e.g., cigarette lighter outlet)

Charging the Main Battery

The mobile base provides power to the Dolphin and allows charging of the main batteries in the terminal. The main battery charges in 4 hours for the standard battery or 6 hours for the extended battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that terminal may be seated in the base indefinitely without damage to the terminal, battery pack, or the base.

For more information about Honeywell battery packs and how to check battery power levels in your terminal, refer to [Battery](#) (page 2-8).

To Power a Terminal and Charge its Main Battery

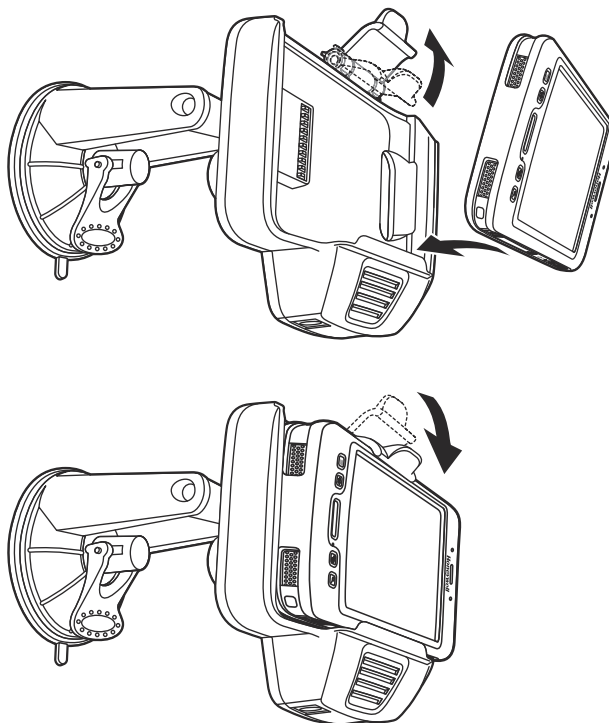


Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.



We recommend use of Honeywell Li-Ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

1. Install the main battery in the terminal; see [Install the Battery](#) on page 1-1.
2. Mount the Mobile base and install the power cable; see [Mounting the Mobile Base](#) on page 10-3.
3. Pull the spring latch back and insert the Dolphin 75e into the terminal well. Charging begins immediately if required by the Dolphin terminal.



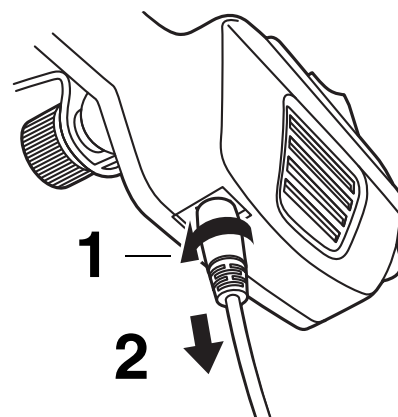
Note: Align the contacts on the back panel of the terminal with the charging contacts on the Mobile Base.

Removing the Cable



Attempting to remove the cable without disengaging the lock may result in damage to the base and power cable not covered by the warranty.

1. Twist the cable 90° counterclockwise to disengage the cable lock.
2. Remove the cable from the power jack.



Dolphin 70e Black ChargeBase (Model 70e-CB)

Overview

The Dolphin 70e Black ChargeBase is a 4-slot charging cradle that can power four Dolphin terminals, and charge their main batteries in 4 hours for the standard battery or 6 hours for the extended battery. The 70e-CB charger is designed for use with the following Dolphin models and batteries manufactured for Honeywell International Inc:

Dolphin Models	Battery Model No.	Battery Part No.	Battery Specification
Dolphin 75e Dolphin 70e	70e-BTSC	BAT-STANDARD-02	Li-ion 3.7V, 6.179 watt hour
	70e-BTEC	BAT-EXTENDED-02	Li-ion 3.7V, 12.358 watt hour



We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.

Unpacking the ChargeBase

Open the shipping box and inspect the package to see that the following standard items are included:

- One Dolphin ChargeBase, model 70e-CB
- One power supply (see [Power](#) on page 11-3)
- One power cord

These items are needed to operate the ChargeBase. If any items are missing or anything appears to be damaged, contact your Customer Account Representative. Keep the original packaging in case you need to return the ChargeBase for service or to store the ChargeBase while not in use.

Charging Overview

The base supplies power to the intelligent battery charging system in all Dolphin terminals, which senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge. As battery packs charge, the charging circuitry follows the two-step charging process (CC-CV) that is recommended for the battery type. The process monitors changes in temperature, current, and voltage. The main battery of each terminal charges in 4 hours for the standard battery or 6 hours for the extended battery.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the [Guidelines for Battery Pack Use and Disposal](#) on page 2-13.



We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

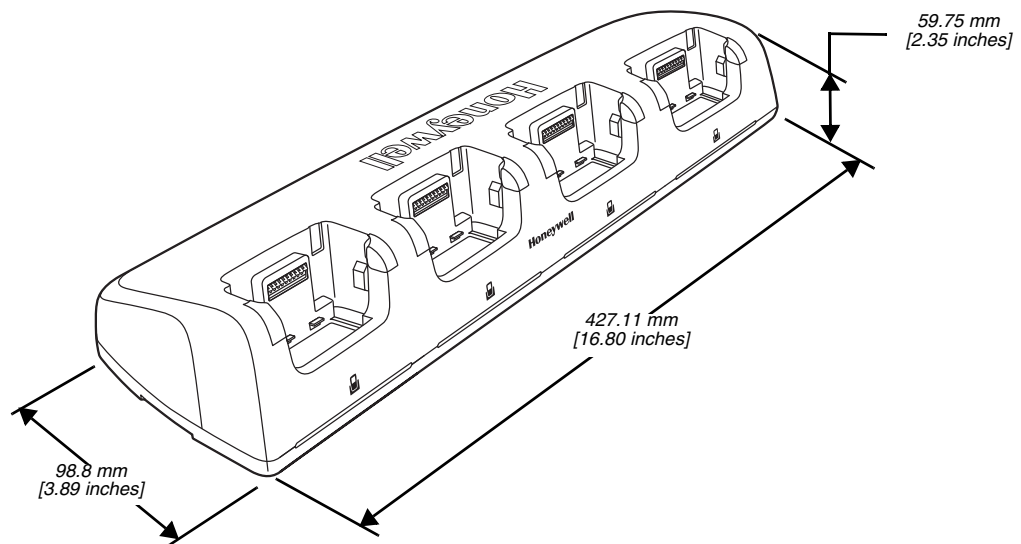
Convenient Storage

The intelligent battery charging system makes this base a safe and convenient storage receptacle for your Dolphin terminal.

Capacity

The base holds up to four Dolphin terminals. Each charging well charges each terminal independently of the other wells.

Dimensions



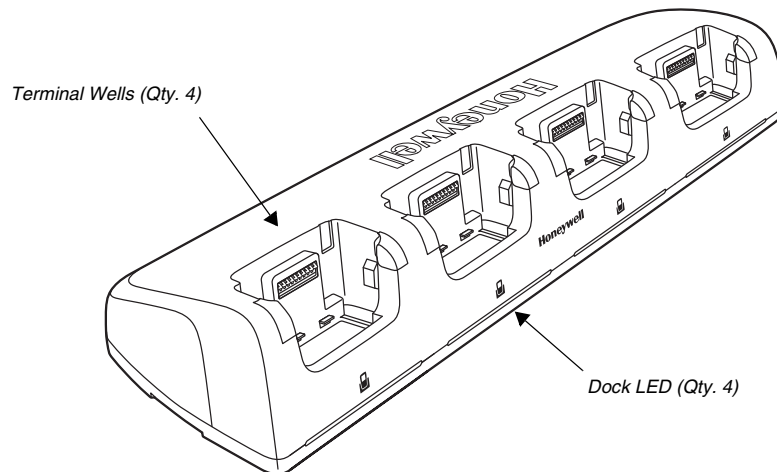
Weight

ChargeBase weight: 674g [1.49 lbs.]

Note: Weight excludes packaging, cables and power supply.

Parts and Functions

Front Panel



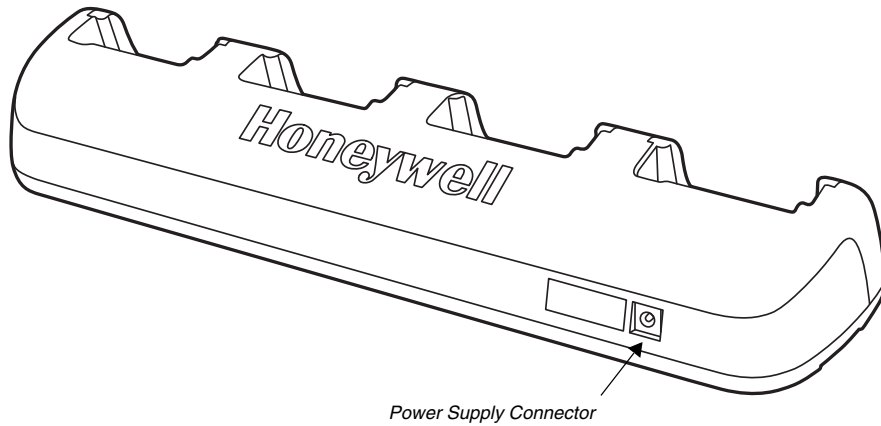
Terminal Wells

The base contains four terminal wells, which offer independent battery charging for each docked terminal.

Dock LEDs

The Dock LED indicates if the terminal is properly seated in the charging well. Each well has a dedicated Dock LED, which illuminates blue when a terminal is properly seated in the charging well.

Back Panel

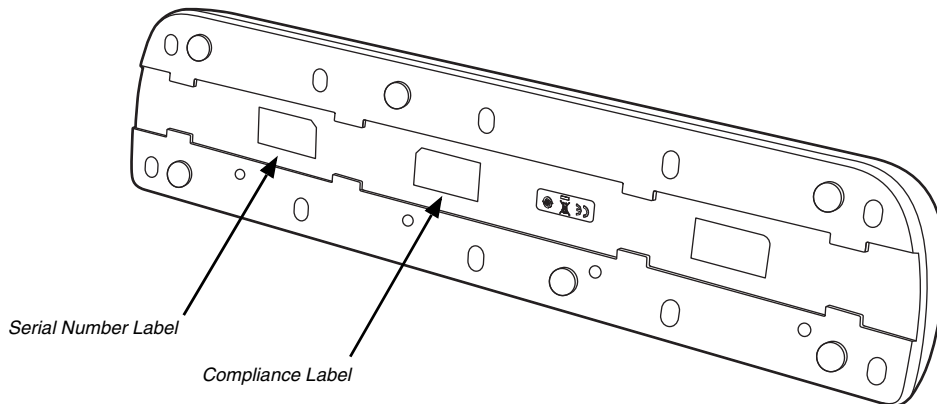


Power Supply Connector

This connector receives input from the power adapter. Plug the power connector cable from the power adapter into this connector.

Bottom Panel

For details on how to mount the base, see [Mounting the ChargeBase](#) on page 11-4.



Power

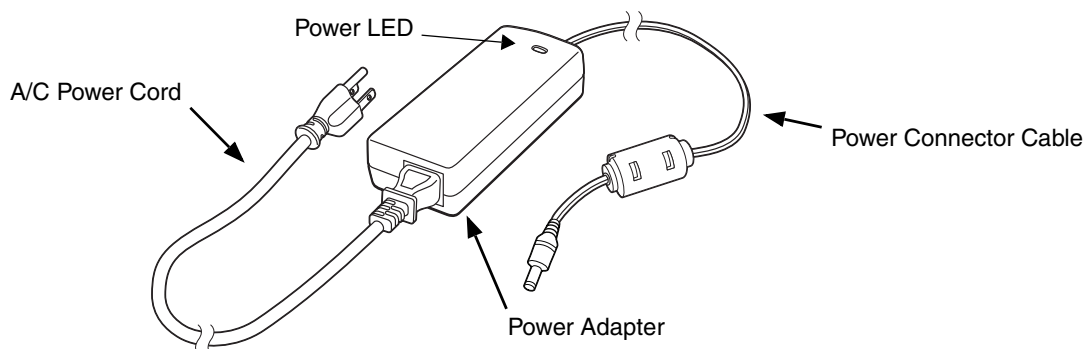
The terminal requires 12 Volts DC input for battery charging and power output to the terminal. The power adapter included with the base, converts the voltage from the AC power source to 12 volts DC. **Use only a UL Listed power supply, which has been qualified by Honeywell with output rated at 12VDC and 5 amps with the device.** The operating temperature range is -10° to 50°C (14° to 122°F).

Honeywell recommends that you leave the ChargeBase connected to its power source at all times, so that it is always ready to use.



We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.

Connecting Power to the ChargeBase



1. Plug the A/C power cord into the power adapter.
2. Plug the power cable into the power connector on the back of the ChargeBase.
3. Plug the A/C power cord into a grounded power source.
4. The base is ready to begin charging terminals.

Charging the Main Battery

The base provides power to the Dolphin terminals and allows charging of the batteries in the terminals. The battery of each terminal charges in 4 hours for the standard battery or 6 hours for the extended battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that Dolphin terminals may be seated in the base indefinitely without damage to the terminals, batteries, or the base.



For more information about Honeywell battery packs and how to check battery power level in your terminal, refer to [Battery](#) (page 2-8).

To Power a Terminal and Charge its Main Battery



Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.

1. Install the battery in the terminal, see [Install the Battery](#) on page 1-1.
2. Insert the Dolphin terminal into one of the four terminal wells. The Dock LED for the well illuminates blue. Charging begins immediately if required by the Dolphin terminal.

Note: When the terminal is docked, the Battery Icon changes from  to , indicating the terminal is running on external power. Battery charging occurs in the background. When the Dolphin is removed from the base, the battery icon indicates the charge level of the battery, see [Common Status and Notification Icons](#) on page 1-7.

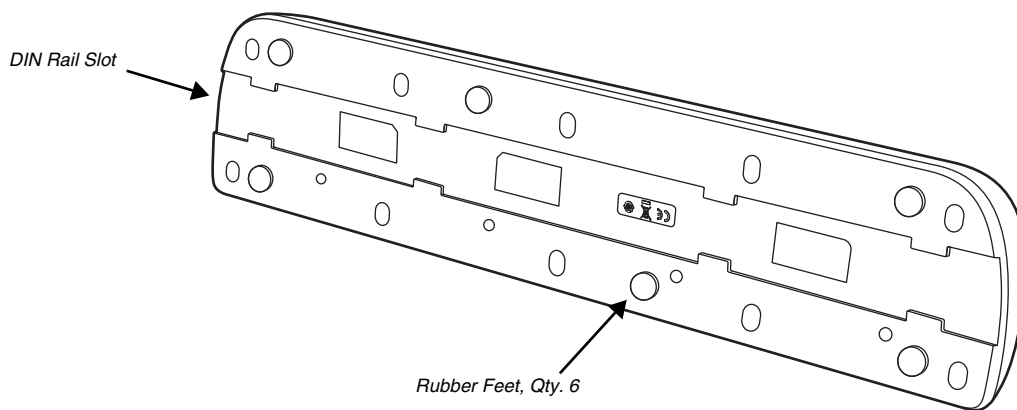


We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

Mounting the ChargeBase

Set the base on a dry, stable surface, such as a desktop or workbench near an electrical outlet. Be sure to provide enough workspace with good lighting for the user to view and operate the Dolphin terminal while it is in the base. When choosing a location, keep in mind that the mounting location must allow users to see the LEDs and provide easy access to the terminal wells and the power jack.

Bottom Panel



Optional DIN Rail Mount

A DIN rail (7.5 X 35 mm) may be installed on the bottom of the base to provide the optional security of mounting the base to a flat horizontal surface with hardware.

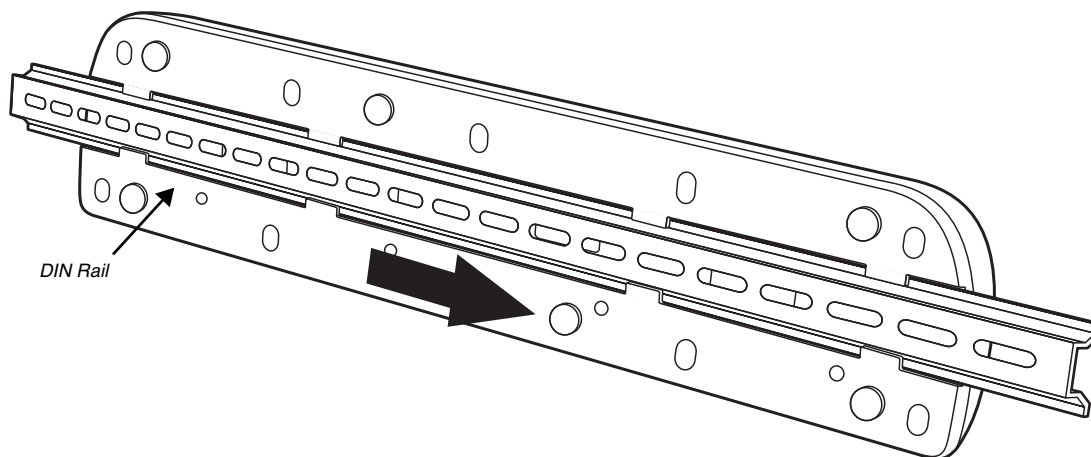
Additional Hardware

- DIN Rail, Qty. 1
- 3/16 in. dia x 5/8 in. long pan head screw, Qty. 2
- 1/2 in. OD x 7/32 in. ID x 3/64 in. thick washer, Qty. 4
- 3/16 in. dia nut, Qty. 2

Note: The items listed above are for reference only. Final hardware selection is dependent on the material type and thickness of the mounting surface.

Installing the DIN Rail

1. Slide the DIN Rail into the DIN Rail slot on the bottom panel of the base.



2. Turn the base and DIN Rail right side up.
3. Use the appropriate hardware to secure the DIN Rail to a stable, flat horizontal surface.



Dolphin 70e Black Net Base (Model 70e-NB)

Overview

The Net Base enables up to four Dolphin 75e handheld computers to communicate with a host device over an Ethernet network. In addition, the Net Base provides a second RJ45 Ethernet port for connection to an additional device such as a printer, workstation, Net Base, or another Net Base. The 70e-NB charger is designed for use with the following Dolphin models and batteries manufactured for Honeywell International Inc:

Dolphin Model	Battery Model No.	Battery Part No.	Battery Specification
Dolphin 75e Dolphin 70e	70e-BTSC	BAT-STANDARD-02	Li-ion 3.7V, 6.179 watt hour
	70e-BTEC	BAT-EXTENDED-02	Li-ion 3.7V, 12.358 watt hour



We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.

Unpacking the Net Base

Open the shipping box and inspect the package to see that the following standard items are included:

- One Dolphin Net Base Ethernet cradle, model 70e-NB
- One power supply (see [Power](#) on page 12-4)
- One power cord

These items are needed to set up and operate the Net Base. If any items are missing or anything appears to be damaged, contact your Customer Account Representative. Keep the original packaging in case you need to return the Net Base for service or to store the Net Base while not in use.

Optional Equipment

A standard CAT-5 Ethernet network cable is required when using the Net Base for communication between the terminal(s) and a host device over an Ethernet network.

Charging Overview

The base supplies power to the intelligent battery charging system in all Dolphin terminals, which senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge. As battery packs charge, the charging circuitry follows the two-step charging process (CC-CV) that is recommended for the battery type. The process monitors changes in temperature, current, and voltage. The main battery of each terminal charges in 4 hours for the standard battery or 6 hours for the extended battery.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the [Guidelines for Battery Pack Use and Disposal](#) on page 2-13.



We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

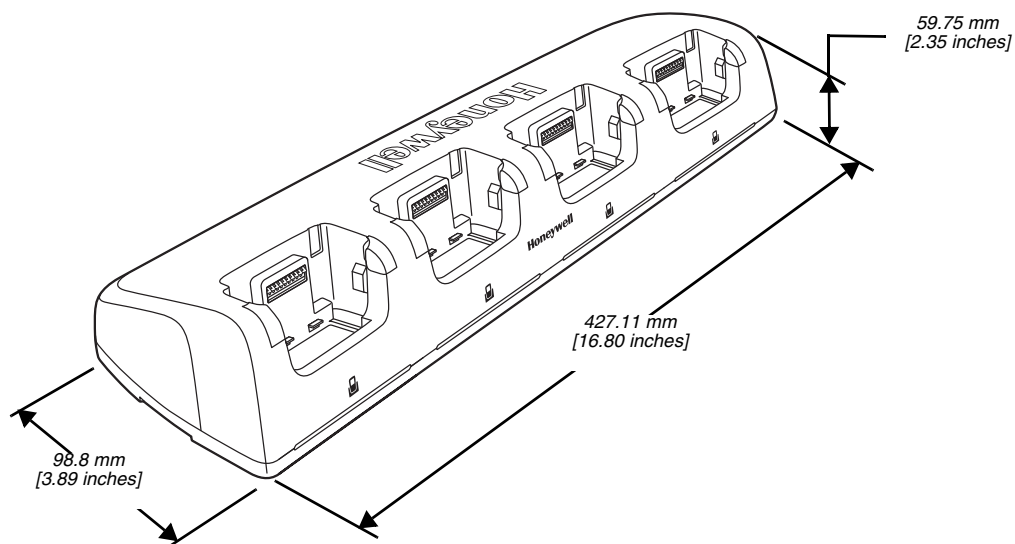
Convenient Storage

The intelligent battery charging system makes this base a safe and convenient storage receptacle for your Dolphin terminal.

Capacity

The base holds up to four Dolphin terminals. Each charging well charges each terminal independently of the other wells.

Dimensions



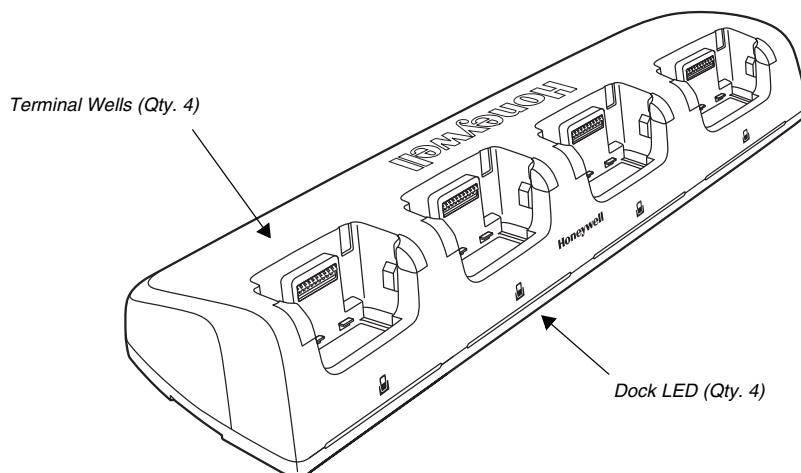
Weight

Net Base weight: 694g [1.53 lbs.]

Note: Weight excludes packaging, cables and power supply.

Parts and Functions

Front Panel



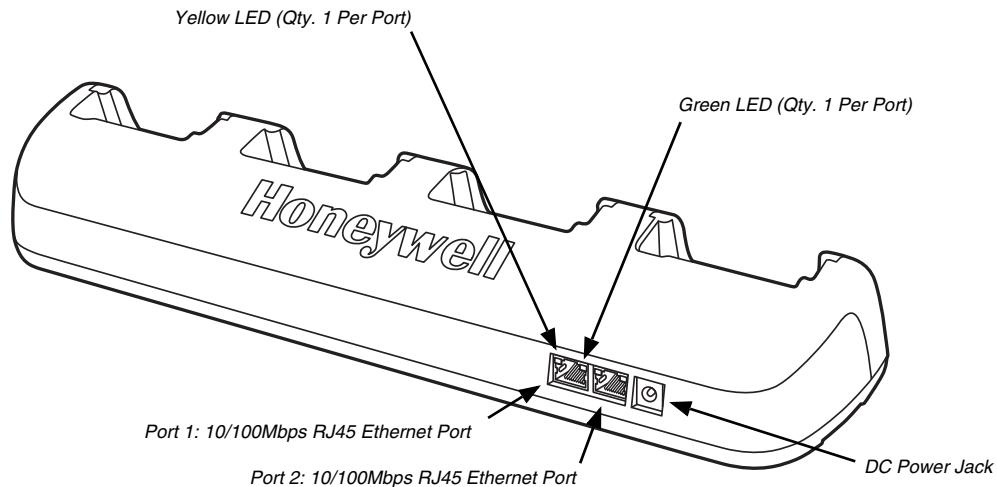
Terminal Wells

The base contains four terminal wells, which offer independent battery charging for each docked terminal.

DOCK LEDs

The Dock LED indicates if the terminal is properly seated in the charging well. Each well has a dedicated Dock LED, which illuminates blue when a terminal is properly seated in the charging well.

Back Panel



RJ45 Ethernet Ports

The Net Base contains two RJ45 Ethernet ports. You can connect the Net Base to an Ethernet-compliant device to facilitate Ethernet communication to and from the terminal by plugging a standard CAT-5 Ethernet cable into one of the two Ethernet ports provided. The second RJ45 Ethernet port can be used for connection to an additional device such as a printer, workstation, eBase, or another Net Base.

Note: The Net Base does not use a Spanning Tree Protocol (STP). When both RJ45 Ethernet ports are used, do not connect both Net Base interfaces to the same layer 2 LAN.

Each RJ45 Ethernet port has a dedicated green and yellow status LED.

Status	Yellow LED	Green LED
No Ethernet Link	Off	Off
10Mbps Ethernet Connection Established	Off	On
100Mbps Ethernet Connection Established	On	On
Data transfer in progress	Connection Speed Dependent (see above)	Flashing

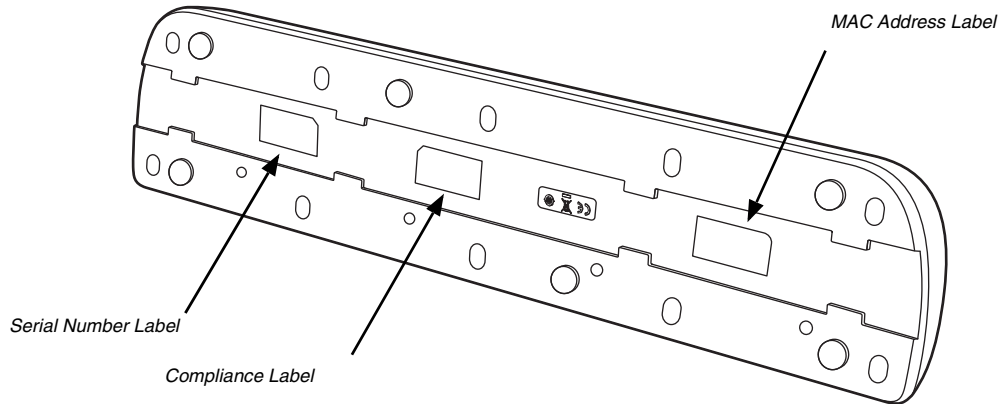
Note: The terminal and Ethernet link must be set up properly to allow the terminal to communicate to other devices and/or the Internet. For more information, see [Establishing Ethernet Communication](#) on page 12-5.

DC Power Jack

This connector receives input from the power adapter. Plug the power connector cable from the power adapter into this connector, see [Power](#).

Bottom Panel

For details on how to mount the base, see [Mounting the Net Base](#) on page 12-5.



Power

The terminal requires 12 Volts DC input for battery charging and power output to the terminal. The power adapter included with the base, converts the voltage from the AC power source to 12 volts DC. **Use only a UL Listed power supply, which has been qualified by Honeywell with output rated at 12VDC and 5 amps with the device.** The operating temperature range is -10° to 50°C (14° to 122°F).

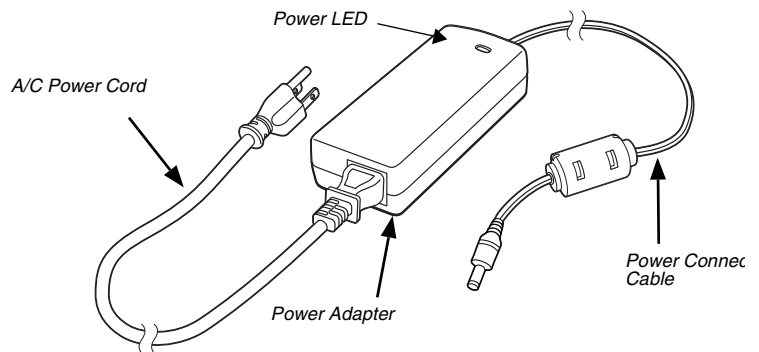
Honeywell recommends that you leave the Net Base connected to its power source at all times, so that it is always ready to use.



We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.

Connecting Power to the Net Base

1. Plug the A/C power cord into the power adapter.
2. Plug the power cable into the power connector on the back of the Net Base.
3. Plug the A/C power cord into a grounded power source.
4. The base is ready to begin charging terminals.



Charging the Main Battery

The base provides power to the Dolphin terminals and allows charging of the batteries in the terminals. The battery of each terminal charges in 4 hours for the standard battery or 6 hours for the extended battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that Dolphin terminals may be stored in the base indefinitely without damage to the terminals, battery packs, or the base.



For more information about Honeywell battery packs and how to check battery power levels in your terminal, refer to [Battery](#) (page 2-8).

To Power a Terminal and Charge the Main Battery



Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.

1. Install the battery in the terminal, see page 1-1.
2. Slide the Dolphin terminal into one of the four terminal wells. The Dock LED for the well illuminates blue. Charging begins immediately if required by the Dolphin terminal.

Note: When the terminal is docked, the Battery Icon changes from  to , indicating the terminal is running on external power. Battery charging occurs in the background. When the Dolphin is removed from the base, the battery icon indicates the charge level of the battery, see [Common Status and Notification Icons](#) on page 1-7.



We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

Communication

Establishing Ethernet Communication

Connecting the Dolphin Terminal to the Net Base

By default, the Dolphin terminal is configured to obtain IP addresses automatically via DHCP server. This means that in most cases you would simply plug-and-play the unit.

1. Connect power to the Net Base (see [Power](#) on page 12-4).
2. Plug the CAT-5 Ethernet cable into the RJ45 connector on the back of the Net Base.
3. Plug the Ethernet cable into the network.
4. Insert the Dolphin into the terminal well. The Dock LED for the well illuminates blue.

Displaying the Net Base and Terminal IP Address

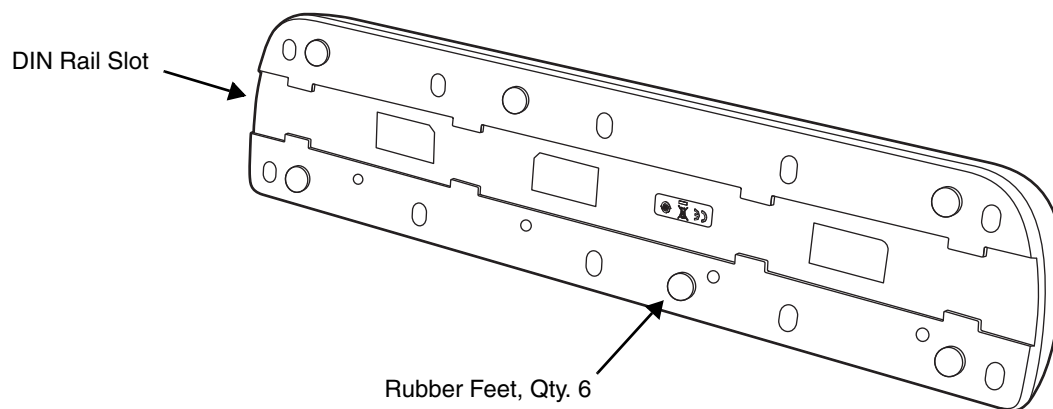
Once the Dolphin terminal has been successfully connected to the network through Net Base, the terminal uses the Net Base IP address. The IP address can be used by any application on the Dolphin terminal.

In the **Apps list**, touch **DiagnosticInfoW10**  to view the assigned IP Address.

Mounting the Net Base

Set the Net Base on a dry, stable surface, such as a desktop or workbench near an electrical outlet. Be sure to provide enough workspace with good lighting for the user to view and operate the Dolphin terminal while it is in the Net Base. When choosing a location, bear in mind that the mounting location must allow users to see the LEDs and provide easy access to the terminal wells, the Ethernet ports, and the power jack.

Bottom Panel



Optional DIN Rail Mount

A DIN rail (7.5 X 35 mm) may be installed on the bottom of the base to provide the optional security of mounting the base to a flat horizontal surface with hardware.

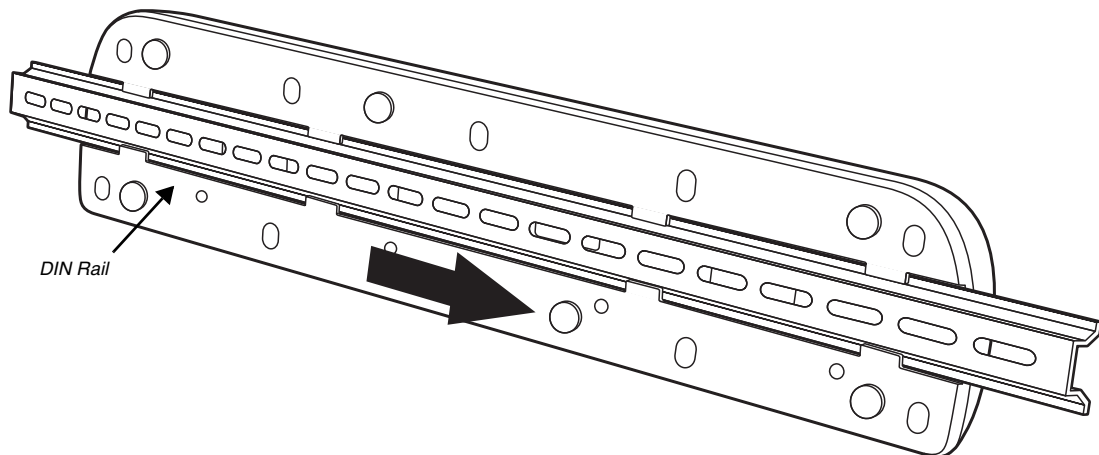
Additional Hardware

- DIN Rail, Qty. 1
- 3/16 in. dia x 5/8 in. long pan head screw, Qty. 2
- 1/2 in. OD x 7/32 in. ID x 3/64 in. thick washer, Qty. 4
- 3/16 in. dia nut, Qty. 2

Note: The items listed above are for reference only. Final hardware selection is dependent on the material type and thickness of the mounting surface.

Installing the DIN Rail

1. Slide the DIN Rail into the DIN Rail slot on the bottom panel of the base.



2. Turn the base and DIN Rail right side up.
3. Use the appropriate hardware to secure the DIN Rail to a stable, flat horizontal surface.

Dolphin 75e Terminal Agency Information

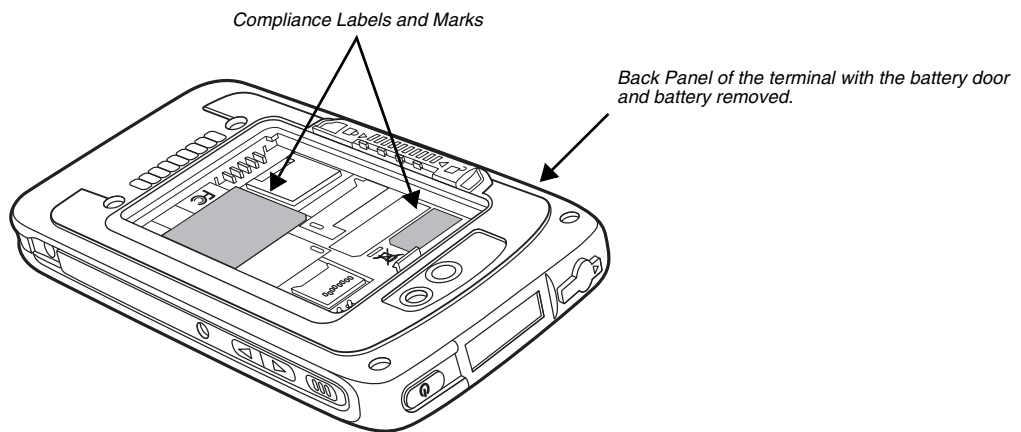
Dolphin 75e handheld computers meet or exceed the requirements of all applicable organizations that set standards for safe operation. The best way to ensure safe operation is to use the handheld computer according to the agency guidelines in this user guide and on the regulatory sheet shipped with the terminal. Read all guidelines before using your Dolphin terminal. To download product documentation for the Dolphin 75e handheld computer, go to www.honeywellaidc.com.

This documentation is relevant for the following Dolphin model: 75eL0N.



Caution: Read the [Guidelines for Battery Pack Use and Disposal](#) on page 3-16 and all cautionary markings on the battery, charging peripheral, or device using the battery before attempting to install, use, or charge the battery. Risk of fire and burns if improperly handled. Do not open, crush, heat above 60°C (140°F), or incinerate.

Label Locations



Model Number and Serial Number

The model number, serial number and part number for the terminal are located on labels affixed to the bottom of the battery well.

RF Exposure Information (SAR)

This handheld computer meets the government's requirements for exposure to radio waves. This handheld computer is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/Kg and for Europe 2 W/Kg. Although the SAR is determined at the highest certified power level, the actual SAR level of the handheld computer while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The highest reported SAR values for head and body-worn accessory are: 0.367 W/kg (1 g) for body and 0.596 W/kg (1 g) for head.

The highest reported CE SAR values for head and body-worn accessory are: 0.170 W/kg (10 g) for body and 0.310 W/kg (10 g) for head.

While there may be differences between the SAR levels of various handheld computer and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this handheld computer with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this handheld computer is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid after searching on FCC ID: HD5-75EL0N.



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