

**PRODUCT SPEC SHEET**  
**SB1-HC SMART BADGE**



# SB1-HC SMART BADGE

## THE AFFORDABLE, WEARABLE MOBILE DEVICE DESIGNED FOR ALL HEALTHCARE

**Improve the quality of care and the patient experience with the SB1-HC.** In hospitals and clinics, there are literally thousands of tasks that need to be performed every day — and the timeliness and accuracy of those tasks directly impacts the quality of care patients receive. But the cost of outfitting your entire healthcare staff with a mobile device that can streamline and improve task management has been prohibitive — until now. The SB1-HC is an affordable mobile device that provides every healthcare staff member with the features and functionality required to ensure swift action and task accuracy. With its ability to run task management applications, you can easily create a task list for each worker and track task status, while robust bar code scanning streamlines and error-proofs the execution of a wide variety of tasks. For example, technicians can scan equipment —such as holter recorders, pulse oximeters and defibrillators —to validate maintenance is about to be performed on the proper piece of equipment. Items in a supply cabinet can be scanned to automate inventory counts and replenishment, ensuring that critical supplies are always available when needed. And patient porters can scan the bar codes on patient wristbands upon pick-up and arrival to ensure that the right patient is being delivered to the right location. In addition, this tiny device has what it takes to handle life in a healthcare organization. The touch screen works even with a gloved hand. The device is designed to handle constant disinfecting with harsh chemicals. And a military standard drop specification and environmental sealing ensure dependable operation, despite drops, spills, exposure to heat and cold and more.

### **Small, lightweight and wearable**

The compact, light SB1-HC is easily worn on a lanyard, belt clip or armband, where it is available to healthcare staff in an instant.

### **Full shift power**

The SB1-HC provides the peace of mind that comes from knowing workers will always have more than ample power for a full shift. The low-power E Ink display provides over 14 hours of battery life from a single charge. And in badge mode, the screen can display a healthcare worker's picture and name whenever the device is not in use — yet draw virtually no power at all.

### **Built for constant disinfecting**

Special plastics and IP54 sealing enable the regular wipedowns required to prevent the spread of germs between patients and caregivers.

### **Durable — designed for everyday use**

The SB1-HC is a true enterprise product, built to handle everyday use in the hospital, easily surviving drops, spills, exposure to heat and cold and more.

### **Easy to read — everywhere**

The 3 in. E Ink® Pearl display is easy to read in virtually every lighting condition.

### **Easy 'touch' navigation**

Finger-style navigation eliminates the need for a stylus and supports a gloved hand.

### Fast and easy capture of any bar code

With omni-directional scanning, an integrated aimer, LED and beeper, scanning a 1-D or 2-D bar code couldn't be easier — even if bar codes are dirty, damaged or poorly printed.

### Built for sharing

No need to assign devices — healthcare workers can simply log in at the start of a shift to automatically access their personal task list, messages and authorized applications.

### Screen inversion for easy viewing

An accelerometer instantly orients the screen 180° based on device position for instant viewing — crucial in the critical world of healthcare.

### Easily connect to wireless networks

With our Wi-Fi 802.11b/g/n radio, your staff gets a secure and solid wireless connection to your WLAN — so voice and data features are simply always available.

### Enterprise-class push-to-talk<sup>1</sup>

At the press of a button, an SB1-HC user can talk to other staff who are carrying virtually any mobile device — an SB1-HC, a Zebra mobile computer (such as the MC40), a two-way radio<sup>1</sup> or popular third party smartphones.

### Government grade security protects patient data

FIPS 140-2 certification<sup>2</sup> keeps sensitive patient information safe and helps achieve compliance with healthcare-related government regulations, such as HIPAA .

## THE SB1-HC. THE CONSTANT CONNECTION YOUR HEALTHCARE STAFF NEEDS TO IMPROVE THE QUALITY OF CARE.

For more information, visit [www.zebra.com/sb1hc](http://www.zebra.com/sb1hc) or access our global contact directory at [www.zebra.com/contact](http://www.zebra.com/contact)

## SPECIFICATIONS CHART

PHYSICAL CHARACTERISTICS		WIRELESS LAN VOICE AND DATA COMMUNICATIONS	
Dimensions	3.62 in. L x 3.19 in. W x 0.94 in D 92 mm L x 81 mm W x 24 mm D	Radio	Wi-Fi IEEE © 802.11b/g/n
Weight	4.4 oz./124 g		
Colors	Healthcare White; Black	<b>INCLUDED SOFTWARE</b>	
Display	3.0 inch E Ink Pearl display; 4-bit gray scale (16 shades); QVGA (320x240)	Zebra Solutions RhoElements webkit application environment; SB1 device shell and configuration pages; Zebra Solutions Push-to-Talk Express (PTT ) client for PTT voice communications; Zebra Solutions integrated Rapid Deployment client for zero-touch staging and provisioning	
Touchpanel	Full screen resistive touch; finger operation (no stylus)		
Battery	910mAH (full charging in less than 4 hours)	<b>PERIPHERALS AND ACCESSORIES</b>	
Notification	Audio: beeper Visual: multi-color LEDs	10-slot charging cradle (desk and rack mountable); single-slot charging cradle; headset adapter; neck lanyard with safety breakaway; belt clip/holster with tether; wrist/arm-band; developer USB cable	
Audio	Integrated microphone, speaker, 2 PTT buttons (public and private), and headset jack		

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## PERFORMANCE CHARACTERISTICS

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CPU	i.MX35 (532MHz)
Memory	128 MB RAM /128 MB Flash
Applications	Supports thin client applications — HTML5 with RhoElements extensions

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## USER ENVIRONMENT

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Operating Temp.	32° F to 104° F/0° C to 40° C
Storage Temp.	-40° F to 158° F/-40° C to 70° C
Humidity	5 to 95% non-condensing
Drop Specification	Multiple 4 ft./1.22 m drop to tile over concrete per MIL STD 810G specifications
Sealing	IP54

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## INTERACTIVE SENSOR TECHNOLOGY (IST)

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Motion Sensor	Integrated accelerometer enables low-power badge mode and screen rotation
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## DATA CAPTURE

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Bar Code Reader	1-D/2-D omni-directional bar code reader with integrated aiming and built-in illumination
Reading Range	
Code Type	
80% UPC	Near: 2.50 in./6.35 cm Far: 9.36 in./23.77 cm
100% UPC	Near: 2.67 in./6.78 cm Far: 13.47 in./34.21 cm
7.5mil Code 39	Near: 2.02 in.*/5.08 cm Far: 8.57 in./5.13 cm
10mil Code 39	Near: 2.54 in.*/6.45 cm Far: 20.67 in./52.50 cm
10mil PDF417	Near: 1.64 in.*/4.16 cm Far: 7.98 in./20.27
10mil DataMatrix	Near: 2.76 in.*/7.01 cm Far: 5.41 in./13.74 cm

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\* Near distance field of view is limited and will depend on bar code length.

## VOICE AND AUDIO

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PTT voice communications; integrated microphone, speaker and headset for PTT communications

## CLEANING INSTRUCTIONS

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Approved Cleanser Active Ingredients:  
100% of the active ingredients in any cleaner must consist of one or some combination of the following: isopropyl alcohol; hydrogen peroxide; mild dish soap

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Harmful Ingredients:  
The following chemicals are known to damage the plastics on the SB1-HC devices and should not come in contact with the device: ammonia solutions, compounds of amines or ammonia; acetone; ketones; ethers; aromatic and chlorinated hydrocarbons; aqueous or alcoholic alkaline solutions; ethanolamine; toluene; trichloroethylene; benzene; carbolic acid and TB-lysoform. In addition, bleach solutions are known to corrode gold contacts over time.

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Cleaning Instructions:  
Do not apply liquid directly to the SB1-HC devices. Dampen a soft cloth or use pre-moistened wipes. Do not wrap the device in the cloth or wipe, but gently wipe the unit. Be careful not to let liquid pool around the display window or other places. If a solution containing bleach is used on the gold contacts, it is recommended that an immediate wipe down using isopropyl alcohol (IPA) be administered to remove residuals. Allow unit to dry before use.

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Special Cleaning Notes:  
Many vinyl gloves contain phthalate additives, which are often not recommended for medical use and are known to be harmful to the housing of the SB1-HC devices. The SB1-HC devices should not be handled while wearing vinyl gloves containing phthalates, or before hands are washed to remove contaminant residue after gloves are removed. If products containing any of the harmful ingredients listed above are used prior to handling the SB1-HC devices, such as hand sanitizers that contain ethanolamine, hands must be completely dry before handling the devices to prevent damage to the plastics

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## REGULATORY

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Visit [www.zebra.com/sb1hc](http://www.zebra.com/sb1hc) for regulatory information

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## WARRANTY

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Subject to the terms of Zebra's hardware warranty statement, the SB1-HC is warranted against defects in workmanship and materials for a period of 12 months from the date of shipment. For complete warranty statement, go to: <http://www.zebra.com/warranty>

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## RECOMMENDED SERVICES

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Service from the Start Advance Exchange Support



**ZEBRA**

1 The Zebra Solutions Push-to-Talk Express client is required on all devices (initiating and receiving) to enable push-to-talk services with mobile computers and third-party smartphones. Zebra Solutions Radio Link is required to enable push-to-talk with two-way radios.

2 Available Q2 2014

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