



# SYMBOL DS3500-ER SERIES

## MAXIMUM PERFORMANCE, PRODUCTIVITY, SCANNING RANGE AND RUGGED DESIGN

### RAPIDLY SCAN 1-D AND 2-D BAR CODES AT NEARLY ANY RANGE — FROM NEAR TO FAR

Warehouses in distribution centers and manufacturing plants, warehouse-style retail stores, outdoor lumber yards and pipelines all have one thing in common — the need to scan different types of bar codes across a wide range of distances. The DS3500-ER Series of full range corded and cordless scanners allows you to do just that — capture bar codes from near contact to as far as 30 ft./9.14 m away. With this single device, workers can scan an item in hand or an item on the tallest rack in the warehouse. The need to purchase multiple types of devices to capture different types of bar codes at different distances is eliminated, so you can boost productivity and minimize your investment.

### DELIVERING THE ULTIMATE IN SPEED

When it comes to performance, you can expect the same superior scanning experience that has made Zebra the world's leader in bar code technology. Easily read bar codes under several layers of shrinkwrap — without any impact on read speed. Workers can also hold the trigger down to continuously scan items. It doesn't matter how well lit an area is — the DS3500-ER Series can read bar codes in darkness or in bright sunlight. And you can easily format the data for easy integration into your existing systems, without costly modification of host software.

### BUILT TO LAST IN THE HARSHTEST INDUSTRIAL ENVIRONMENTS

With Zebra's maximum rugged specifications, the DS3500-ER Series can handle whatever comes its way during the workday. Indoors and outdoors, you can drop it on concrete, cover it in dust or grease, spray it with high pressure jets of water or expose it to extreme temperatures with the same result — day-in and day-out reliable operation.

For more information on how you can put the DS3500-ER Series to work in your organization, please visit us on the web at [www.zebra.com/ds3500er](http://www.zebra.com/ds3500er) or access our global contact directory at [www.zebra.com/contact](http://www.zebra.com/contact)

### FEATURES

#### Wireless option with Integrated Bluetooth Class II, Version 2.1

Cable-free convenience  
 secure wireless transmissions; reduces repairs due to cable failure

#### Maximum scanning range:

Full range scanner captures from near contact to over 30 ft./9.14 m

#### Scans 1-D and 2-D bar codes:

Flexibility to capture the bar codes in use today — and tomorrow

#### Maximum rugged design:

IP65; 6.5 ft./2m drop to concrete; 2,000 revolutions (4,000 hits) in Zebra's tumble drum; dual frictionless fixed sensor design

#### Superior motion tolerance:

Protects productivity — no wait times between trigger pulls

#### FI PS 140-2 validated:

Secures the most sensitive data and enables compliance with a myriad of industry regulations (cordless models only)

#### Omni-directional:

No need to line up scanner and bar code

#### Superior decode capability:

## SPECIFICATIONS CHART

PHYSICAL CHARACTERISTICS		CRADLES <sup>1</sup>	
Dimensions	7.34 in. L x 4.82 in. W x 2.93 in. D 18.65 cm H x 12.25 cm W x 7.43 cm D	STB 3508 and FLB 3508	Power Reqs. : 4.75-14 VDC  Typical current draw: Not charging : 35 mA @5V, 45 mA @9V  Fast rate charge <sup>2</sup> : 915 mA @5V,
Weight	DS3508-ER (without cable): 12.8 oz. (363 grams) DS3578-ER: 13.79 oz. (391 gm)		

<b>Battery</b>	DS3578 only: 2200 mAh Lithium Ion Battery (note that DS3508 does not require a battery)	660 mA @9V Slow rate charge <sup>3</sup> : 480 mA @5V, 345 mA @9V
----------------	-----------------------------------------------------------------------------------------	----------------------------------------------------------------------

Captures bar codes under multiple layers of shrinkwrap as well as codes that are damaged, scratched or dirty

<b>Battery Charge Time</b>	Fully charged (100%) in 4.5 hours	<b>STB 3578 and FLB 3578</b>	Power Reqs. : 4.75-14 VDC
<b>Color</b>	Twilight Black/Yellow		Typical current draw: Not charging : 105 mA @5V, 110 mA @9V Fast rate charge <sup>2</sup> : 915 mA @5V, 660 mA @9V Slow rate charge <sup>3</sup> : 480 mA @5V, 345 mA @9V

### Scan in darkness or in bright sunlight:

Maintain productivity in any lighting

## PERFORMANCE CHARACTERISTICS

<b>Light Source</b>	Aiming pattern: 650nm visible laser diode Illumination: 630nm LED
<b>Roll/Pitch/Yaw</b>	360°, ±60°, ±60°
<b>Motion Tolerance</b>	Up to 60 in./sec. (1.52m/sec.) for 100% 13 mil UPC; motion tolerance will vary depending on code type, scan distance and print quality

## RADIO SPECIFICATION

<b>Radio</b>	Bluetooth Class II Version 2.1, Serial Port and HID Profiles
<b>Frequency</b>	2.402 to 2.480 GHz adaptive frequency hopping and co-existence with 802.11 wireless networks
<b>Data Rate</b>	720 Kbps

### Continuous scanning mode:

Depress and hold trigger to keep scanning — no pausing between scans

## USER ENVIRONMENT

<b>Operating Temp</b>	-4° F to 122° F/-20° C to 50° C
<b>Storage Temp</b>	-40° F to 140° F/-40° C to 60° C
<b>Humidity</b>	5% to 95% relative humidity, non-condensing
<b>Sealing</b>	Sealed to IP65 specifications
<b>Drop Specifications</b>	Functions normally after repeated 6.5 ft. (2 m) drops to concrete

<b>Radio Range</b>	Radio range: Up to 300 ft. (100m) direct line of sight in open air. typical indoor cordless range is 100 ft. (33m), but range will vary depending upon environment
--------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------

### Advanced data formatting:

Enables sophisticated formatting of scanned data before it is sent to the host, eliminating the high cost of modifying your host application

<b># Cradle Insertions DS3578</b>	DS3578 only: 250,000+ insertions (not applicable to DS3508)
<b>Ambient Light Immunity</b>	Sunlight – 8,000 ft. candles (86,000 LUX); Incandescent; Fluorescent; Mercury Vapor; Sodium Vapor – 150 ft. candles (1,600 LUX); Immune to direct exposure to normal office and factory lighting conditions, as well as direct exposure to sunlight

## INTERFACES

<b>Interfaces Supported</b>	USB, RS-232, RS-485 (IBM 46xx Protocols), Keyboard Wedge
<b>Electrostatic Discharge (ESD):</b>	+/- 15kV air discharge and +/-8kV contact discharge

## REGULATORY

<b>Electrical Safety</b>	UL60950-1, CSA C22.2 No. 60950-1, EN 60950-1 / IEC 60950-1
<b>Laser Safety</b>	EN 60825-1, IEC 60825-1, 21CFR1040.10, CDRH Class II , IEC Class 2

## SYMBOLGY DECODE CAPABILITY

<b>1-D Codes</b>	UPC/EAN (UPCA/UPCE/UPCE1/EAN-8/EAN-13/ JAN-8/JAN-13 plus supplementals, ISBN (Bookland), ISSN, Coupon Code), Code 39 (Standard, Full ASCII , Trioptic), Code 128 (Standard, Full ASCII , UCC/EAN-128, ISBT-128 Concatenated), Code 93, Codabar/ NW7, Code 11 (Standard, Matrix 2 of 5), MSI Plessey, I 2 of 5 (Interleaved 2 of 5 / IT F, Discrete 2 of 5, IATA , Chinese 2 of 5), GS1 DataBar (Omni-directional, Truncated, Stacked, Stacked Omni-directional, Limited,
------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>EMI/RFI</b>	FCC Part 15 Class B, ICES-003 Class B, EN 55022, EN 55024, AS/ NZS 4268:2008, Japan VCCI
----------------	------------------------------------------------------------------------------------------

<b>Environmental</b>	Compliant with RoHS directive 2002/95/EEC
----------------------	-------------------------------------------

## OPTIONS

<b>Accessories</b>	Holster; tool balancer pulley ( tethered); standard cradle (charge only; radio/charge); forklift cradle ( charge only; radio/charge)
--------------------	--------------------------------------------------------------------------------------------------------------------------------------

## WARRANTY

Expanded, Expanded Stacked, Inverse),  
Base 32 (Italian Pharmacode)

**PDF417 (and Variants)**

PDF417 (Standard, Macro),  
microPDF417 (Standard, Macro),  
Composite Codes (CC-A, CC-B,  
CC-C)

**2-D Codes**

TL C-39, Aztec (Standard, Inverse)  
, MaxiCode, DataMatrix/ECC  
200 (Standard, Inverse), QR Code  
(Standard, Inverse, Micro)

**Postal**

U.S. Postnet, U.S. Planet, U.K.  
Postal, Japan Postal, Australian  
Postal, Dutch Postal, 4 State  
Postal

**IUID Support**

Supports IUID parsing — the ability  
to read and separate IUID  
fields per application requirements

The DS3500-ER Series is warranted against defects in workmanship and materials for a period of: Scanner: thirty-six (36) months, Battery: one (1) month. For the complete Zebra hardware product warranty statement, go to: <http://www.zebra.com/warranty>

**RECOMMENDED SERVICES**

Service from the Start Advance Exchange Support

**NOTES**

1. Cradles STB/FLB3508 and STB/FLB3578 are utilized with the DS3578. (The DS3508 does not use a cradle; it is tethered to the host.) In addition, STB/FLB3508 is a charge-only cradle with no communication capabilities.
2. Requires an external power supply.
3. Cradle defaults to slow rate charge when an external supply is not used.

**DS3500-ER SERIES DECODE ZONE**

**Code 39 - 7.5 mil**

Near : 8.5 in./21.6 cm  
Far : 34 in./86.4 cm

**Code 39 - 10 mil**

Near : 8 in./20.3 cm  
Far : 42 in./106.7 cm

**Code 39 - 20 mil**

Near : \*  
Far : 88 in./223.5 cm

**Code 39 - 55 mil**

Near : \*  
Far : 205 in./520.7 cm

**Code 39 - 100 mil**

Near : \*  
Far : 335 in./851.0 cm

\* Dependent upon length of bar code



**ZEBRA**

Part number: SS-DS3500-ER. Printed in USA 04/15. ©2015 ZIH Corp. ZEBRA, the Zebra head graphic and Zebra Technologies logo are trademarks of ZIH Corp., registered in many jurisdictions worldwide. SYMBOL is a trademark owned by Symbol Technologies, Inc., which is an indirect wholly owned subsidiary of Zebra Technologies Corporation. All rights reserved. All other trademarks are the property of their respective owners.

**ZEBRA TECHNOLOGIES**