

**PRODUCT SPEC SHEET**  
**SYMBOL DS3500-ER SERIES**



# 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)

## SPECIFICATIONS CHART

PHYSICAL CHARACTERISTICS		CRADLES <sup>1</sup>	
<b>Dimensions</b>	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	<b>STB 3508 and FLB 3508</b>	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
<b>Weight</b>	DS3508-ER (without cable): 12.8 oz. (363 grams)		

### 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 Motorola'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

	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)
<b>Battery Charge Time</b>	Fully charged (100%) in 4.5 hours
<b>Color</b>	Twilight Black/Yellow

## 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

## 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># 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

## SYMBOLGY DECODE CAPABILITY

@5V, 660 mA @9V  
Slow rate charge<sup>3</sup> : 480 mA  
@5V, 345 mA @9V

## STB 3578 and FLB 3578

Power Reqs. : 4.75-14  
VDC

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

## 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

**Data Rate** 720 Kbps

**Radio Range** 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

## 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
<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

with a myriad of  
industry regulations  
(cordless models only)

## Omni- directional:

No need to line up  
scanner and bar code

## Superior decode capability:

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

## Scan in darkness or in bright sunlight:

Maintain productivity  
in any lighting

## Continuous scanning mode:

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

## 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

**1-D Codes**

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, 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

**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 : \*

**OPTIONS**

**Accessories**

Holster; tool balancer pulley (tethered); standard cradle (charge only; radio/charge); forklift cradle (charge only; radio/charge)

**WARRANTY**

The DS3500-ER Series is warranted against defects in workmanship and materials for a period of 3 years (36 months) from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions.

**RECOMMENDED SERVICES**

Service from the Start Advance Exchange Support

**NOTES**

1. Cradles STB/FLB3508 and STB/FLB3578 are utilized with the DS3578. (The DS3508 doesnot 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.

Far : 205 in./520.7 cm

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<b>Code 39 - 100</b>	Near : *
<b>mil</b>	Far : 335 in./851.0 cm

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\* Dependent upon length of bar code



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