#### PRODUCT SPEC SHEET SYMBOL LS3578-A&E



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# RUGGED, CORDLESS SCANNER WITH INTEGRATED BLUETOOTH

# SCAN BAR CODES OVER A WIDE RANGE OF DISTANCES

The LS3578-A&E rugged, cordless scanner provides the greatest working range of any available rugged scanner, allowing employees to scan items from as close as .25 inches /.64cm to as far away as 45 feet /13.7 m. It also allows employees to quickly switch from reading bar codes on inventory to capturing smaller symbologies on bar code menus and pick lists. In the yard, warehouse, distribution centre, manufacturing plant or retail store, the LS3578-A&E offers superior performance and reliability as well as a user-friendly form factor that helps ensure comfortable use over long shifts. Plus, integrated Bluetooth provides reliable and secure wireless data transmission between the scanner and host, including Zebra's rugged VC5090 Vehicle-Fixed Mount Mobile Computer.

## CORDLESS FREEDOM FOR IMPROVED PRODUCTIVITY

With no cord between the scanner and host, employees can move freely throughout their work environment, increasing productivity and efficiency while keeping supply chain inventory up to date at all times. Plus, having no cord reduces downtime from cable breakdowns – a common point of failure in handheld devices used in industrial facilities.

#### LOW TOTAL COST OF OWNERSHIP (TCO)

In addition to enhancing productivity, the LS3578-A&E offers a low TCO. The industrial-strength construction maximizes the scanner's working life, and multiple on-board interfaces provide true plug-and-play simplicity with your host system today and tomorrow. Support for Remote Scanner Management (RSM) enables you to discover, provision and upgrade devices from a central remote location, dramatically reducing management time and costs. And since even the most rugged devices require a support plan, a full complement of Enterprise Mobility Services are available to help you protect your investment and maintain peak performance.

For more information on how the LS3578-A&E can benefit your business, please visit us on the web at <u>www.zebra.com/Is3578er</u> or access our global contact directory at <u>www.zebra.com/contact</u>

# SPECIFICATIONS CHART

PHYSICAL CHARACTERISTICS		CRADLES	
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)	Power requirements	4.75 – 14 VDC (STB 3508 AND FLB 3508) 4.75 – 14 VDC (STB 3578 AND FLB 3578)
Weight (including LiON battery)	14.8 oz. (420 gm)	Not charging	STB 3508 AND FLB 3508 10 mA STB 3578 AND FLB 3578 105 mA
Battery	2200 mAh Lithium Ion Battery	@5V 45 mA @9V	@5V 45 mA @9V



### **FEATURES**

Wide working range: .25"/.64 cm to 45 ft./ 13.7 m

Allows workers to scan items at varying distance without having to move, reducing fatigue and speeding task completion

#### Integrated Bluetooth<sup>®</sup> Class 2 v1.2 (Serial Port and HID Profiles with authentication and security)

Cordless scanning with secure wireless data transmission

#### **Cordless scanning**

Enables real-time bar code data collection unrestricted by a cable, reducing repairs from cable failure

#### Batch mode operation

Increases application design flexibility to better meet your specific needs

#### Ergonomic, rugged industrial design withstands up to 50 drops to concrete from 6.5 ft. (2m) and 2,500 3 ft. ( 1m) tumbles (5,000 hits)

Ensures maximum reliability with less downtime resulting from accidental drops

## IP65-rated seal ( electronic enclosure)

Protects against water and dust for reliable performance in the harshest environments

Bright LED and beeper with adjustable volume

Battery charge time	Fully charged (100%) in 3 hours	Fast rate charge	STB 3508 AND FLB 3508 915 mA	Helps ensure that decode
Colour	Twilight Black and Yellow	_	@5V 660 mA @9V <b>STB 3578</b> AND FLB 3578 915 mA @5V 660 mA @9V	feedback is clearly visible and audible to users, even in noisy environments
PERFORMANCE CHARACTERISTICS		Slow rate charge	STB 3508 AND FLB 3508 480 mA	Multi-point
Scanner type	Retrocollective	-	@5V 345 mA @9V <b>STB 3578</b> AND FLB 3578 480 mA @5V 345	communication
Light source	650 nm visible laser diode		Use up to three scanners with a single cradle, reducing capital expenditures and maintenance costs	
Scan repetition	36 scans per second typical			
Minimum element	7.5 mil (0.191 mm)	RADIO SPECIFICATION		
width		Radio	Bluetooth, Class 2, Version 1.2,	Bright 650 nm laser aiming dot
Nominal working distance	See decode zone	Frequency	Delivers clearly visible	
Print contrast	25% minimum reflective difference		2.402 to 2.480 GHz adaptive frequency hopping (co-existence	for more accurate scanning
Roll (Tilt) <sup>1</sup>	+/- 10 degrees from normal		with 802.11 wireless networks)	Supports GS1DataBar
Pitch <sup>2</sup>	+/- 65 degrees from normal	- Data rate	720 kbps	Symbologies ( formerly RSS)
Skew (Yaw) <sup>3</sup>	+/- 60 degrees from normal	<ul> <li>Radio Range</li> </ul>	Up to 300 ft. (100m) direct line of sight in open air; typical indoor	Ensures compatibility with
Decode capability	UPC.EAN, UPC.EAN with Supplemental, GS1-128 (formerly UCC/EAN 128), JAN 8 & 13, Code 39,Code 39 Full ASCII, Code 39 Trioptic, Code 128, Code 128 Full ASCII, Codabar (NW7),	-	cordless range is 100 ft. (33m), but will vary depending upon environment; see Bluetooth Radio Performance Technical Brief for more information	emerging symbols to protect your hardware investment Advanced data formatting Eliminates costly modifications to the host
	Interleaved 2 of 5, Discrete 2 of 5, Code 93, MSI, Code 11, Code 32,	REGULATORY		software
	Bookland EAN, IATA, GS1DataBar (formerly RSS)	Input transient protection	IEC 1000-4-(2,3,4,5,6,11)	Remote scanner management ready
Interfaces supported	RS232, Keyboard Wedge, IBM 468X/469X, USB and Synapse	EMI/RFI	FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Japan VCCI/MITI/Dentori	Enables you to discover, provision and upgrade devices from a central remote location, reducing
USER ENVIRON	MENT	Laser safety	IEC825-1 Class 2	management time and costs
Operating Temp.	-4° to 122°F (-20° to 50°C)	-		
Storage temperature	-40° to 140°F (-40° to 60°C)	WARRANTY		
Humidity	5% to 95% relative humidity, noncondensing	The LS3578-A&E is warranted against defects in workmanship and materials for a period of 3 years (36 months) from date of shipment, provided that the		
Sealing	Sealed to IP65 specifications	product remains unn	nodified and is operated under	
Drop specifications	Unit functions normally after 50 drops to concrete from 6.5 ft. (2m)	<ul> <li>normal and proper c details.</li> </ul>	onditions. See full warranty for	
# of Cradle Insertions	250,000+ insertions	RECOMMENDE	ED SERVICES	
Ambient lighting	Tolerant to typical artificial indoor	Support Services	Service from the Start - Bronze	
tolerance	and natural outdoor (direct sunlight ) lighting conditions. Fluorescent, Incandescent, Mercury Vapor, Sodium Vapor, LED4: 450 Ft Candles (4,842 Lux) Sunlight: 4,000 Ft Candles (43,040 Lux)	or counterclockwise raising the wrist 3 - S the wrist from left to	lled by rotating the wrist clockwise 2 - Pitch: Controlled by dropping or Skew (Yaw): Controlled by rotating right or vice versa 4 - LED lighting content can impact scanning	
Electrostatic discharge	Conforms to 20 kV air discharge and 8 kV of contact discharge	_ ^		

#### DEPTH OF FIELD

LABEL DENSITY	LS3578-A&E		
Paper Label	English	Metric	
Code 39 – 7.5 mil	0.25" – 20.00"	0.64 – 50.80 cm	
Code 39 – 10 mil	2.00" – 32.00"	5.08 – 81.28 cm	
Code 39 – 15 mil	3.00" - 69.00"	7.62 – 175.26 cm	
Code 39 – 20 mil	3.00" – 94.00"	7.62 – 238.76 cm	
Code 39 – 55 mil	15.00" – 180.00"	38.10 – 457.20 cm	
REFLECTIVE LABEL			
Code 39 – 70 mil	Up to 30 ft.	Up to 9.27 m	
Code 39 – 100 mil	Up to 45 ft.	Up to 13.72 m	

For more detailed information, please see the Product Reference Guide in the Resource tab at <u>www.zebra.com/</u> Is3578er





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