

Symbol LS3578-FZ

Rugged, cordless scanner with integrated Bluetooth

Accurately scan damaged or poorly printed bar codes

The LS3578-FZ cordless scanner provides fuzzy logic technology, enabling you to rapidly and accurately read damaged, dirty and poorly printed one-dimensional (1-D) bar codes often found in industrial environments. In the yard, warehouse, distribution centre, manufacturing plant or retail store, the LS3578-FZ 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.

Rugged design to maximize uptime

As rugged as it is innovative, the LS3578-FZ is designed for scan-intensive industrial applications in the harshest operating conditions. Industry-leading impact tests ensure reliable performance in spite of the inevitable accidental drops. The device is impervious to dust and water, and its exit window is scratch-resistant and recessed for the highest level of durability. As a result, you avoid unnecessary equipment downtime or expensive equipment replacement costs.

Low total cost of ownership (TCO)

In addition to enhancing productivity, the LS3578-FZ 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, visit us at www.zebra.com/ls3578fz

LS3578-FZ Specifications

PHYSICAL CH	ARACTERISTICS	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)



FEATURES

High performance scanner with fuzzy logic decode capability

Quickly and accurately scans all 1-D bar codes on the first scan, including poorly printed, dirty, damaged or low-contrast bar codes

Integrated Bluetooth 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

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

Helps ensure that decode feedback is clearly visible and audible to users, even in noisy environments

Weight: (including	14.6 oz. (414 gm)	Typical current draw:		
LiON battery)		Not charging	Not charging STB 3508 and FLB 3508 10	
Battery:	2200 mAh Lithium Ion Battery	mA STB 3578 and FLB 3578 105 mA @5V 45 mA @9V Fast rate charge STB 3508 and FLB 3508 915 mA @5V 660 mA @9V STB 3578 and FLB 3578 915 mA @		
Battery charge time:	Fully charged (100%) in 3 hours			
Colour:	Twilight Black and Yellow			
PERFORMANCE	CHARACTERISTICS		5V 660 mA @9V	
Scanner type:	Retrocollective	Slow rate charge STB 3508 and FLB 3508 480 mA @5V 345 mA @9V STB 3578 and FLB 3578 480 mA @ 5V 345 mA @9V		
Light source:	650 nm visible laser diode			
Scan repetition:	36 scans per second typical			
Minimum element width:	5 mil (0.127 mm	RADIO SPECIFICATION		
Nominal working distance:	See decode zone	Radio:	Bluetooth, Class 2, Version 1.2, Serial port and HID Profiles	
Print contrast:	25% minimum reflective difference	Frequency:	2.402 to 2.480 GHz adaptive	
Roll (Tilt) ¹ :	+/- 20 degrees from normal	-	frequency hopping (co-existence with 802.11 wireless networks)	
Pitch ² :	+/- 65 degrees from normal	Data rate:	720 kbps	
Skew (Yaw) ³ :	+/- 50 degrees from normal	Radio Range:	Up to 300 ft. (100m) direct line of	
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), Interleaved 2 of 5, Discrete 2 of 5, Code 93, Code 11, Code 32, Bookland EAN, IATA, GS1DataBar (formerly RSS)		sight in open air; typical indoor cordless range is100 ft. (33m), but will vary depending upon environment; see Bluetooth Radio Performance Technical Brief for more information	
		REGULATORY		
		Input transient	IEC 1000-4-(2,3,4,5,6,11)	
nterfaces supported	RS232, Keyboard Wedge, IBM	protection:		
	468X/469X, USB and Synapse	EMI/RFI:	FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Japan VCCI/MITI/Dentori	
USER ENVIRON	MENT	Laser safety:	IEC825-1 Class 2	
Operating temperature:	-4° to 122°F (-20° to 50°C)	Laser salety.	IEC023-1 Class 2	
Storage temperature	-40° to 140°F (-40° to 60°C)	WARRANTY The LS3578-FZ 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. See full warranty for details.		
: Humidity:	5% to 95% relative humidity, noncondensing			
Sealing:	Sealed to IP65 specifications			
Drop specifications:	Unit functions normally after 50 drops to concrete from 6.5 ft. (2m)			
# of Cradle	250,000+ insertions	RECOMMENDE	D SERVICE	
Insertions: Ambient lighting tolerance:	Tolerant to typical artificial indoor and natural outdoor (direct sunlight) lighting conditions. Fluorescent, Incandescent, Mercury Vapor,	Service from the Start - Bronze 1 - Roll (Tilt): Controlled by rotating the wrist clockwise or counterclockwise 2 - Pitch: Controlled by dropping or raising the wrist 3 - Skew (Yaw): Controlled by rotating the wrist from left to right or vice versa 4 - LED lighting with high AC ripple content can impact scanning performance		

Multi-point communication

Use up to three scanners with a single cradle, reducing capital expenditures and maintenance costs

Bright 650 nm laser aiming dot

Delivers clearly visible line for more accurate scanning

Supports GS1DataBar Symbologies (formerly RSS)

Ensures compatibility with emerging symbols to protect your hardware investment

Advanced data formatting

Eliminates costly modifications to the host software

Batch mode operation

Increases application design flexibility to better meet your specific needs

Remote scanner management ready

Enables you to discover, provision and upgrade devices from a central remote location, reducing management time and costs Sodium Vapor, LED4: 450 Ft Candles (4,844 Lux) Sunlight: 8000 Ft Candles (86,111 Lux)

Electrostatic discharge:

Conforms to 20 kV air discharge and 8 kV of contact discharge

Depth of Field

LABEL DENSITY	LS3578-FZ		
Paper Label	English	Metric	
Code 39 – 5 mil	2.50" – 7.25"	6.35 – 18.42 cm	
Code 39 – 7.5 mil	2.00" – 15.75"	5.08 – 40.00 cm	
100% UPC – 13 mil	1.00" – 24.00"	2.54 – 60.96 cm	
Code 39 – 20 mil	0 – 39.50"	0 – 100.33 cm	
Code 39 – 40 mil	2.00" - 67.00"	5.08 – 170.18 cm	
Code 39 – 55 mil	4.00" - 84.00"	10.16 – 213.36 cm	

For more detailed information, please see the Product Reference Guide in the Resource tab at www.zebra.com/ ls3578fz



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