Symbol LS3578-ER

Rugged, cordless scanner with integrated Bluetooth

Scan bar codes over a wide range of distances

The Symbol LS3578-ER rugged, cordless scanner provides the greatest working range of any available rugged scanner, allowing employees to scan items from as close as .25 inches /.64 cm 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 center, manufacturing plant or retail store, the Symbol LS3578-ER 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 Motorola'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 Symbol LS3578-ER 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-ER 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.motorola.com/ls3578ER or access our global contact directory at www.motorola.com/enterprisemobility/contactus.

Symbol LS3578-ER Specifications

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

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

Physical Characteristics

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)
Weight: (including LiON battery)	14.8 oz. (420 gm)
Battery:	2200 mAh Lithium Ion Battery
Battery charge time:	Fully charged (100%) in 3 hours
Color:	Twilight Black and Yellow

Performance Characteristics

Scanner type:	Retrocollective
Light source:	650 nm visible laser diode
Scan repetition:	36 scans per second typical
Minimum element width:	7.5 mil (0.191 mm)
Nominal working distance:	See decode zone
Print contrast:	25% minimum reflective difference
Roll (Tilt)[1]:	+/- 10 degrees from normal
Pitch[2]:	+/- 65 degrees from normal
Skew (Yaw)[3]:	+/- 60 degrees from normal
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, MSI, Code 11, Code 32, Bookland EAN, IATA, GS1DataBar (formerly RSS)
Interfaces supported:	RS232, Keyboard Wedge, IBM 468X/469X, USB and Synapse

User Environment

Operating temperature:	-4° to 122°F (-20° to 50°C)
Storage temperature:	-40° to 140°F (-40° to 60°C)
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 Insertions:	250,000+ insertions
Ambient light immunity:	Immune to direct exposure of normal office and factory lighting conditions, as well as direct exposure to sunlight.
Electrostatic discharge:	Conforms to 20 kV air discharge and 8 kV of contact discharge

Cradles	STB 3508 and FLB 3508	STB 3578 and FLB 3578
Power requirements:	4.75 – 14 VDC	4.75 – 14 VDC
Typical current draw:		
Not charging	10 mA	105 mA @5V 45 mA @9V
Fast rate charge	915 mA @5V 660 mA @9V	915 mA @5V 660 mA @9V
Slow rate charge	480 mA @5V 345 mA @9V	480 mA @5V 345 mA @9V

Radio specification

Radio:	Bluetooth, Class 2, Version 1.2, Serial port and HID Profiles
Frequency:	2.402 to 2.480 GHz adaptive frequency hopping (co-existence with 802.11 wireless networks)
Data rate:	720 kbps
Radio Range:	Up to 300 ft. (100m) direct line of sight in open air; typical indoor cordless range is 100 ft. (33m), but will vary depending upon environment; see Bluetooth Radio Performance Technical Brief for more information

Regulatory

Input transient protection:	IEC 1000-4-(2,3,4,5,6,11)
EMI/RFI:	FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Japan VCCI/MITI/Dentori
Laser safety:	IEC825-1 Class 2

Warranty

The Symbol LS3578-ER 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.

Recommended Service

Service from the Start - Bronze

Depth of Field		
Label Density	**LS3578-ER**	
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 www.motorola.com/ls3578er

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