

Symbol LS3578-ER

Rugged, cordless scanner with integrated Bluetooth



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 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

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. Industryleading 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. motorolasolutions.com/LS3478ER

SYMBOL LS3578-ER

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

Symbol LS3578-ER Specifications

Physica	I Characteristics	

Physical Characteristic	s		
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 Character	ristics		
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		
tolerance: C	Folerant to typical artificial indoor and natural butdoor (direct sunlight) lighting conditions. Fluorescent, Incandescent, Mercury Vapor, Sodium Vapor, LED ⁴ : 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		

Cradles ST	B 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, \ Serial port and HID F		
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,	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		
ship and materials fo shipment, provided t		6 months) from date of s unmodified and is oper	
Recommended Serv	vice		
Service from the Star			
1 - Roll (Tilt): Controlled by 2 - Pitch: Controlled by dro 3 - Skew (Yaw): Controlled	rotating the wrist clockwise	ft to right or vice versa	
	Dept	h of Field	
Label Density	LS3	578-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 – 20 mil Code 39 – 55 mil	3.00" - 94.00" 15.00" - 180.00"	7.62 – 238.76 cm 38.10 – 457.20 cm	

Up to 45 ft. For more detailed information, please see the Product Reference Guide in the Resource tab at www.motorolasolutions.com/LS3578ER

Up to 30 ft.

Up to 9.27 m

Up to 13.72 m



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Code 39 - 70 mil

Code 39 - 100 mil



Symbol LS3578-FZ

Rugged, cordless scanner with integrated Bluetooth



FEATURES

High performance scanner with fuzzy logic decode capability

Quickly and accurately scans all 1D 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

Accurately scan damaged or poorly printed bar codes

The Symbol LS3578-FZ cordless scanner provides fuzzy logic technology, enabling you to rapidly and accurately read damaged, dirty and poorly printed one-dimensional (1D) bar codes often found in industrial environments.

In the yard, warehouse, distribution center, manufacturing plant or retail store, the Symbol 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 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-FZ is designed for scan-intensive industrial applications in the harshest operating conditions. Industryleading 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.

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Remote scanner

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Symbol LS3578-FZ Specifications

Physical Characteristics

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)	14.6 oz. (414 gm)	
Battery:	2200 mAh Lithium Ion Battery	
Battery charge time:	Fully charged (100%) in 3 hours	
Color:	Twilight Black and Yellow	
Performance Character	istics	
Scanner type:	Retrocollective	
Light source:	650 nm visible laser diode	
Scan repetition:	36 scans per second typical	
Minimum element width:	5 mil (0.127 mm	
Nominal working distance:	See decode zone	
Print contrast:	25% minimum reflective difference	
Roll (Tilt) ¹ :	+/- 20 degrees from normal	
Pitch ² :	+/- 65 degrees from normal	
Skew (Yaw) ³ :	+/- 50 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 lighting tolerance:	Tolerant to typical artificial indoor and natural outdoor (direct sunlight) lighting conditions. Fluorescent, Incandescent, Mercury Vapor, Sodium Vapor, LED ⁴ : 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	

	STB 3508 and FLB 3508	STB 3578 and FLB 3578	
Power requirements:	4.75 – 14 VDC	4.75 – 14 VDC	
Typical current dra	W:		
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 specificati	on		
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	720 kbps	
Radio Range:	air; typical indoor cor but will vary depend	Up to 300 ft. (100m) direct line of 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 protection:	IEC 1000-4-(2,3,4,5,	IEC 1000-4-(2,3,4,5,6,11)	
EMI/RFI:	European Union EN	FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Japan VCCI/MITI/Dentori	
Laser safety:	IEC825-1 Class 2		
Warranty			
and materials for a provided that the p	'8-FZ is warranted against period of 3 years (36 moni product remains unmodifie conditions. See full warrar	ths) from date of shipment, d and is operated under	
normal and proper			
normal and proper Recommended S	Service		
Recommended S Service from the S 1 - Roll (Tilt): Controlled 2 - Pitch: Controlled by 3 - Skew (Yaw): Control		eft to right or vice versa	

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.motorolasolutions.com/LS3578FZ



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