

Symbol LS4278

Cordless handheld scanner



FEATURES

Bluetooth Class 2 v1.2 (Serial Port & HID Profiles with authentication and security)

Cordless scanning with secure wireless transmission of data

Multi-line rastering scan pattern

Eliminates the need for exact aim and positioning for superior scanning accuracy

Remote scanner

management (RSM) ready Discover, provision and upgrade devices from a central remote location; dramatically reduces management effort and costs

Long life industrial charging contacts Reliable performance, rated to 250,000+ insertions

Patented, single circuit-board Lowers TCO by eliminating a major source of vulnerability

Cordless freedom improves productivity and protects profitability

Motorola's cordless Symbol LS4278 provides superior bar code scanning in a durable future-proof device that delivers an outstanding total cost of ownership. Workers can move within a 50 ft./15 m radius to scan items - and the elimination of hazardous cables creates a safer work environment. From cashiers moving around the register to scan large, heavy items and check for missed items to healthcare workers double checking that the right patient is receiving the right medication, integrated Bluetooth wireless personal area networking (WPAN) provides reliable and secure wireless transmission of data between the scanner and your host. Productivity is improved, revenues are protected and potential liability due to injury from lifting heavy objects is reduced.

Outstanding scanning performance

The Symbol LS4278 is designed to deliver exceptional scanning performance. Users can scan objects at any angle — the innovative multi-line rastering scan pattern eliminates the need for exact aim and positioning of the scanner. The laser line moves vertically during scanning, allowing accurate capture of even the smallest, stacked and poorly printed bar codes on the first scan. And with superior motion tolerance, users no longer need pause between scans, further increasing productivity.

A new level of durability – and a lower TCO

The Symbol LS4278 scanner and cradle are designed to withstand all day every day use, from drops to spills, with features that deliver maximum uptime and investment protection. The scanner's patented single board construction eliminates the most common point of failure — the interconnection between multiple boards. Even if the scanner is accidentally dropped, a five-foot (1.5m) drop specification ensures continuous reliable operation. The scanner and cradle offer industrial charging contacts that eliminate wear when cradling the device, providing a reliable charging connection through hundreds of thousands of insertions — other common charging techniques show wear between 5,000 to 10,000 insertions. Drain points are designed into the cradle to protect sensitive internal electronics from accidental liquid spills. Built-in enterprise durability combines with Motorola's Enterprise Mobility Services to deliver a low total cost of ownership. These comprehensive services are available to assist in rapid deployment as well as provide the ongoing support you need to maintain peak performance — and achieve maximum uptime and value.

For more information on the LS4278, visit www.motorolasolutions.com/LS4278 or access our global contact directory at www.motorolasolutions. com/enterprise/contactus SYMBOL LS4278 Cordless handheld scanner

Wide working range

Reads good and poor quality bar codes at similar ranges, reducing the need for the user to move the scanner back and forth

Superior motion tolerance

Eliminates the need to pause between scans

Withstands 5 ft./1.5 m

drops to concrete Protects against downtime from breakage due to everyday drops

Powered through

host cable Eliminates need for a power supply; simplifies installation

Plug-and-play;

universal cable Rapid deployment; single cable connects to any computing environment

Multi point-to-point

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

Batch mode operation

Increases application design flexibility to better meet your specific needs

Vertical or horizontal

mounting Provides versatility to accommodate your unique environment

Symbol LS4278 Specifications

-					
Physical Characteristics		User Environment			
Dimensions:	Scanner: 7.3 in. H x 3.85 in. L x 2.7 in. W/	Operating Temperature:	32° to 122° F/0° to 50° C		
	18.5 cm H x 9.7 cm L x 6.9 cm W Cradle: 2.0 in. H x 8.35 in. L x 3.4 in./	Storage Temperature:	-40° to	158° F/-40° to 70° C	
	5 cm H x 21.1 cm L x 8.6 cm W	Humidity:	5% to 95% non-condensing		
Weight:	Scanner: ~8.4 oz./238 g; Cradle: ~6.4 oz./183 g	Drop Specifications:	Withsta	nds multiple 5 ft./1.5 i	m drops to concrete
Mounting Options:	Cradle supports vertical or horizontal positions	# of Cradle Insertions:	250,000	+ insertions	
Voltage & Current:	Voltage Current (Charging/Non Charging) (Cradle) 5+/-10% VDC 620mA / 70mA with external power 5+/-10% VDC 450mA / 70mA with host power through cable cable	Ambient Lighting Tolerance:	Tolerant to typical artificial indoor and natural outdi (direct sunlight) lighting conditions. Fluorescent, Incande Mercury Vapor, Sodium Vapor, LED ¹ : 450 Ft Candles (4,844 Lux) Sunlight: 8000 Ft Candles (86,111 Lux)		
	12+/-10% VDC 270mA / 50mA with external power 12+/-10% VDC 230mA / 50mA with host power through cable	Regulatory			
		Electrical Safety:	UL1950, CSA C22.2 No. 950, EN60950/IEC950		
Color:	Cash Register White (shown) or Twilight Black	Laser Safety:	CDRH C	Class II, IEC Class 2	
Performance Characte	eristics	EMI/RFI:	FCC Part 15 Class B, ICES-003 Class B, European		
Light Source:	650 nm laser diode			rective, Australian SM/	
Scan Element Frequency	y: 50Hz	Radio:	Radio: Bluetooth, Class 2, Version 1.2, Serial Port & HID Profiles 2.402 to 2.480 GHz Adaptive Frequency Ho (co-existence with 802.11 wireless networks)		
Decode Rate:	200 decodes per second				
Radio Range:	Minimum 33 ft./10 m; typical warehouse environment 50 ft./15 m	Accessories	Data rate: 720 kbps		
Battery Specifications:	720 maH NiMH - (3) AAA Number of scans per full charge: 32,000+ @ 1 scan/second Charge time: Fully discharged battery: < 3 hours via external power / ~4.5 hours via host power through	Brackets:	Desktop/wall-mount bracket		
		Power Supplies:	Power supplies are available for applications that not supply power over the host cable		
	cable (Note: Typical daily scans are less than 4,000, which fully charges within 1 hour)	Warranty Subject to the terms of Motorola's hardware warranty statement, the Symbo			
Roll / Pitch / Yaw:	+/- 35° / 60° / 60°	LS4278 handheld scanner products are warranted against defects in workma and materials for a period of three years from the date of shipment. The I Polymer Scan Element includes an unprecedented limited lifetime warranty. For the complete Motorola hardware product warranty statement, go to: http://www.motorolasolutions.com/warranty.			
Nominal Working Distance:	See chart below				
Print Contrast:	25% minimum reflectance				
Multi-Line Aiming Coverage:	At 5 in./12.7 cm reading distance: ~ 0.5 in./1.3 cm At 10 in./25.4 cm reading distance: ~ 1 in./2.5 cm	1 - LED lighting with high a	AC ripple c	ontent can impact scanning	performance
Motion Tolerances:	Horizontal velocity: 200 in./508 cm per second Vertical velocity: 200 in./508 cm per second	Depth of Field			
	Angular velocity: 200 in./508 cm per second	Label Densit	y	LS	4278
Decode Capability:	UPC/EAN and with supplementals, Code 39, Code 39 Full ASCII, Tri-optic Code 39, GS1 DataBar (formerly RSS) variants,, UCC/EAN 128, Code 128, Code 128 Full ASCII, Code 93, Codabar (NW1), Interleaved 2 of 5, Discrete 2 of 5 MSI, Codell, IATA, Bookland EAN, Code 32	Paper Label		English	Metric
		Code 39 – 5 m	il	1.50" – 5.50"	3.81 – 13.97cr
		100% UPC/EAN - 1	13 mil	0 - 19.00"	0 – 48.25cm
Interfaces Supported:	LS4278 cradle features on-board multiple interface with: RS-232C (Standard, Nixdorf, ICL and Fujitsu); IBM 468x/469x; keyboard wedge; USB (Standard, IBM	Code 39 – 10 m	nil	0 - 14.00"	0 – 35.56cm
		Code 39 – 20 m	nil	0-29.00"	0 – 73.66cm
	SurePOS, Macintosh); laser/wand emulation. In addition, Synapse adaptive connectivity allows for connectivity to all of the above plus many non-standard interfaces.				LASER LIGHT- DO NOT STARE I BEAM, CLASS 2 LASER PROD

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Storage Temperature:	-40° to 158° F/-40° to 70° C			
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Ambient Lighting Tolerance:	Tolerant to typical artificial indoor and natural outdoor (direct sunlight) lighting conditions. Fluorescent, Incandescent, Mercury Vapor, Sodium Vapor, LED ¹ : 450 Ft Candles (4,844 Lux) Sunlight: 8000 Ft Candles (86,111 Lux)			
Regulatory				
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aser Safety:	CDRH Class II, IEC Class 2			
MI/RFI:	FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Australian SMA			
ładio:	Bluetooth, Class 2, Version 1.2, Serial Port & HID Profiles 2.402 to 2.480 GHz Adaptive Frequency Hopping (co-existence with 802.11 wireless networks) Data rate: 720 kbps			
Accessories				
Brackets:	Desktop/wall-mount bracket			
Power Supplies:	Power supplies are available for applications that do not supply power over the host cable			
Varranty				
S4278 handheld scanne	Motorola's hardware warranty statement, the Symbol er products are warranted against defects in workmanship iod of three years from the date of shipment. The Liquid			

	Depth	Depth of Field		
Label Density	LS4278			
Paper Label	English	Metric		
Code 39 – 5 mil	1.50" – 5.50"	3.81 – 13.97cm		
100% UPC/EAN – 13 mil	0 - 19.00"	0 – 48.25cm		
Code 39 – 10 mil	0 - 14.00"	0 – 35.56cm		
Code 39 – 20 mil	0 - 29.00"	0 – 73.66cm		





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