

# 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.motorola.com/ls4278 or access our global contact directory at www.motorola.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

#### F

Dimensions:	Scanner: 7.3 in. H x 3.85 in. L x 2.7 in. W/ 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./ 5 cm H x 21.1 cm L x 8.6 cm W		
Weight:	Scanner: ~8.4 oz./238 g; Cradle: ~6.4 oz./183 g		
Mounting Options:	Cradle supports vertical or horizontal positions		
Voltage & Current: (Cradle)	Voltage 5 +/-10% VDC 5 +/-10% VDC 12 +/-10% VDC 12 +/-10% VDC	Current (Charging / Non Charging) 620 mA / 70mA with external power 450 mA / 70mA with host power through cable 270 mA / 50mA with external power 230 mA / 50mA with host power through cable	
Color:	Cash Register White (shown) or Twilight Black		
Performance Character	istics		
Light Source:	650 nm laser diode		
Scan Element Frequency:	50Hz		
Decode Rate:	200 decodes per second		
Radio Range:	Minimum 33 ft./10 m; typical warehouse environment 50 ft./15 m		
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 cable (Note: Typical daily scans are less than 4,000, which fully charges within 1 hour)		
Roll / Pitch / Yaw:	+/- 35° / 60° / 60°		
Nominal Working	See chart below Distance:		
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		
Motion Tolerances:	Horizontal velocity: 200 in./508 cm per second Vertical velocity: 200 in./508 cm per second Angular velocity: 200 in./508 cm per second		
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 02. Codebrg (NM/4), Interlopved 2 of 5		

ASCII, Code 93, Codabar (NW1), Interleaved 2 of 5, Discrete 2 of 5 MSI, Codell, IATA, Bookland EAN,

LS4278 cradle features on-board multiple interface with: RS-232C (Standard, Nixdorf, ICL and Fujitsu); IBM 468x/469x; keyboard wedge; USB (Standard, IBM SurePOS, Macintosh); laser/wand emulation. In addition, Synapse adaptive connectivity allows for connectivity to all of the above plus many non-standard

Code 32

interfaces

**User Environment** 32° to 122° F/0° to 50° C Operating Temperature: Storage Temperature: -40° to 158° F/-40° to 70° C Humidity: 5% to 95% non-condensing Drop Specifications: Withstands multiple 5 ft./1.5 m drops to concrete # of Cradle Insertions: 250.000+ insertions Ambient Light Immunity: Immune to normal artificial indoor and natural outdoor (direct sunlight) lighting conditions Regulatory Electrical Safety: UL1950, CSA C22.2 No. 950, EN60950/IEC950 Laser Safety: CDRH Class II. IEC Class 2 EMI/RFI: FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Australian SMA Radio: 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

#### Warranty

Subject to the terms of Motorola's hardware warranty statement, the Symbol LS4278 handheld scanner products are warranted against defects in workmanship and materials for a period of three years from the date of shipment. The Liquid Polymer Scan Element includes an unprecedented limited lifetime warranty. For the complete Motorola hardware product warranty statement, go to: http://www.motorola.com/warranty

	Depth of Field		
Label Density	LS4278		
Paper Label	English	Metric	
Code 39 - 5 mil	1.5" - 5.5"	3.81 – 13.97cm	
100% UPC/EAN - 13 mil	0" - 19.0"	0 – 48.25cm	
Code 39 - 10 mil	0" - 14.0"	0 – 35.56cm	
Code 39 - 20 mil	0" - 29.0"	0 – 73.66cm	





Interfaces Supported:

motorola.com

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