Symbol LS4278
Cordless handheld scanner

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.

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 Specifications

### Physical Characteristics

- **Dimensions:**
  - Scanner: 7.3 in. H x 3.95 in. L x 2.7 in. 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 V/10% VDC
  - Current (Charging / Non-Charging): 620 mA / 70 mA with external power
  - 450 mA / 70 mA with host power through cable
  - 270 mA / 50 mA with external power
  - 230 mA / 50 mA with host power through cable
- **Color:** Cash Register White (shown) or Twilight Black

### Performance Characteristics

- **Light Source:** 650 nm laser diode
- **Scan Element Frequency:** 50 Hz
- **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 host power through cable
  - Note: Typical daily scans are less than 4,000, which fully charges within 1 hour
- **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: ~ 1.0 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:**
- **Interfaces Supported:** LS4278 cradle features on-board multiple interfaces with: RS-232C (Standard, Nixdorf, CL and Fujitsu), Cordon, Synapse adaptive connectivity for to all of the above plus many non-standard interfaces.

### User Environment

- **Operating Temperature:** 32° to 122° F/0° to 50° C
- **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

### Regulatory

- **Laser Safety:**
  - CDRH Class II, IEC Class 2
- **Radio:**
  - Bluetooth, Class 2, Version 1.2, Serial Port & HID
  - Profiles 2.402 to 2.480 GHz Adaptive Frequency Hopping (co-existence with IEEE 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: