Cordless freedom improves productivity and protects profitability

Symbol's cordless 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 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 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 Symbol’s services to deliver a low total cost of ownership. Symbol’s 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, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the web at: www.symbol.com/ls4278

### FEATURES

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### BENEFITS

- Cordless scanning with secure wireless transmission of data
- Eliminates the need for exact aim and positioning for superior scanning accuracy
- Discover, provision and upgrade devices from a central remote location; dramatically reduces management effort and costs
- Reliable performance, rated to 250,000+ insertions
- Lowers TCO by eliminating a major source of vulnerability
- Reads good and poor quality bar codes at similar ranges, reducing the need for the user to move the scanner back and forth
- Eliminates the need to pause between scans
- Protects against downtime from breakage due to everyday drops
- Eliminates need for a power supply; simplifies installation
- Rapid deployment; single cable connects to any computing environment
- Use up to three scanners with a single cradle, reducing capital expenditures and maintenance costs
- Increases application design flexibility to better meet your specific needs
- Provides versatility to accommodate your unique environment
**LS4278 Specifications**

**Physical Characteristics**

- **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 6.8 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 8.8 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 / 70mA with external power
  - 5 V +/-10% VDC 450 mA / 70mA with host power through cable
  - 12 +/-10% VDC 270 mA / 50mA with external power
  - 12 +/-10% VDC 230 mA / 50mA with host power through cable

- **Color:** Cash Register White (shown) or Twilight Black

**Performance Characteristics**

- **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:** 720mAh 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

- **Angular Velocity:**
  - Horizontal: 200 in./508 cm per second
  - Vertical: 200 in./508 cm per second

- **Roll / Pitch / Yaw:** +/- 35° / 60° / 60°

- **Vertical Velocity:** 200 in./508 cm per second

- **Multi-Line Aiming:** At 5 in./12.7 cm reading distance: ~ 0.5 in./1.3 cm

- **Print Contrast:** 25% minimum reflectance

- **Horizontal Tolerances:**
  - Velocity: 200 in./508 cm per second
  - Angular: 200 in./508 cm per second

- **Coverage:** At 10 in./25.4 cm reading distance: ~ 1 in./2.5 cm

- **Degradation:** No noticeable degradation.

**Decode Capability:**


**Interfaces Supported:** Symbol LS4278 cradle features on-board multiple interface with: RS-232C (Standard, Noidorx, ICL and Fujitsu); USB (Standard, IBM SurePOS, Macintosh); laser/wand emulation.

**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
- **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
- **Data Rate:** 2.402 to 2.480 GHz Adaptive Frequency Hopping (co-existence with 802.11 wireless networks)
- **Regulatory Notice:** Laser: Class 1; laser beams are within FDA guidelines. Laser Safety Class 1. Laser product conforms to the requirements of the Australian Laser Safety Code.
- **Power Supplies:** Power supplies are available for applications that do not supply power over the host cable

**Warranty**

Subject to the terms of Symbol’s hardware warranty statement, the LS 4278 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 Symbol hardware product warranty statement, go to: http://www.symbol.com/warranty.

**About Symbol Technologies**

Symbol Technologies, Inc., The Enterprise Mobility Company™, is a recognized worldwide leader in enterprise mobility, delivering products and solutions that capture, move and manage information in real time to and from the point of business activity. Symbol enterprise mobility solutions integrate advanced data capture products, radio frequency identification technology, mobile computing platforms, wireless infrastructure, mobility software and world-class services programs under the Symbol Enterprise Mobility Services brand. Symbol enterprise mobility products and solutions are proven to increase workforce productivity, reduce operating costs, drive operational efficiencies and realize competitive advantages for the world's leading companies. More information is available at www.symbol.com

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