

## RD5000 Mobile RFID Reader

Extend the reach of your RFID network and achieve a new level of visibility into inventory and assets with the RD5000 Mobile RFID Reader. This compact, rugged reader can be installed almost anywhere — on material handling equipment such as forklifts, on mobile carts, portable skate wheel conveyors or even in hard to reach places where a cabled fixed reader would not be practical.



Designed for true mobility and mobile applications, this device provides wireless LAN connectivity so product is easily tracked as it moves throughout your operations. The result is granular real-time information — allowing you to achieve a new level of productivity and efficiency throughout your enterprise.

### **100% free of network, power and antenna cables**

Facilitates implementation of RFID read points in new areas of the enterprise, expands visibility of product movement and enables new productivity-saving applications.

### **Integrated 802.11a/b/g WLAN radios**

Flexible, reliable connection with wireless LAN for real-time inventory visibility; features unique to Symbol that deliver superior and reliable wireless connectivity.

### **Integrated Bluetooth®**

Enables wireless communication between RD5000 and an on-board vehicle computer for a completely cable-free solution; ensures constant connection to the onboard computer — even in areas where there is no reliable WLAN connection.

### **Integrated rugged antenna**

Eliminates the need for separate antennas, cables, mounting brackets and connectors to further simplify installation and reduce maintenance.

### **Integrated battery with optional external power source**

Self-contained battery power enables true mobility and eliminates the need to run power cabling — and the associated expense; optional external power source available.

### **Interactive sensing technologies**

Acceleration sensor and proximity sensor facilitate a variety of applications — for example, can be used to maximize battery life by enabling the RD5000 to activate RFID operation based on vehicle motion; triggers RFID reads based on proximity to objects, such as pallets.

### **IP66 sealing**

Completely sealed against dust and jets of water, ensuring reliable operation in nearly any environment, from the warehouse

to the yard and more.

**Industry standard platform**

Intel® XScale® 624 MHz PXA270 processor and enhanced memory architecture enable easy integration into your existing technology environment.

**Microsoft® Windows® CE 5.0**

Advanced operating system provides robust application support.

**MC9000 series compatible battery and chargers**

Significantly reduces investment in batteries and chargers for enterprises that are already using Symbol's MC9000 series mobile handheld computers.

Battery	4-slot batteries only charging cradle
Dimensions (HxWxD)	7 in. L x 9 in. W x 2 in. H 17.78 cm L x 22.86 cm W x 5.08 cm H
Weight	3 lbs 10 oz./1.64 kg (includes battery)
Application development	PSDK, DCP and SMDK available through Support Central Web site
CPU	Intel® XScale® Bulverde PXA270 processor at 624 MHz
Memory	64 MB/64 MB
Operating system	Microsoft Windows CE 5.0
Temperature	IEC 60068-2-1/2/14
Charging temperature	32° to 104° F (0° to 40° C)
Drop specifications	30 in. / 76.2 cm to concrete
Electrostatic discharge (ESD)	+/-15kVdc air discharge; +/-8kVdc direct/indirect discharge
Environmental sealing	IP66
Humidity	5% to 95% non-condensing
Operating temperature	-4° to 122° F / -20° to 50° C

Repetitive shock	Over 3,500 70-g shocks and 21,600 60-g shocks
Storage temperature	-40° to 158° F / -40° to 70° C
Antenna	Integrated, circularly polarized, 1.5 dB effective linear gain per axis (nominal); Antenna port for future support of optional external antenna, Internal
Field	Half read range beam width: +/- 80 degrees (with tags optimally oriented)
Nominal read range <sup>1</sup>	10 ft./3.04 m with Motorola RFX6000 4x4 tag optimally oriented
Output power	1W conducted (1.4W EIRP with integrated antenna)
RFID frequency range	USA — FCC Part 15.247, 15.205, 15.209; Canada — RSS-210
Standards supported	EPC Gen 2 DRM (DRM compliant up to 0.5w)
Data rate	802.11a: up to 54 Mbps; 802.11b: up to 11 Mbps; 802.11g: up to 54 Mbps
Frequency range	All country dependent: 802.11a - 5 GHz; 802.11b – 2.4 GHz; 802.11g – 2.4 GHz
Output power	100 mW U.S. and International
PAN (Bluetooth Support):	Bluetooth® Version 1.2 with BTE Explorer™ (manager) included
WLAN	IEEE 802.11a/b/g
Electrical safety	UL 60950-1, C22.2 No. 60950-1, IEC 60950-1
Warranty terms	The RD5000 is warranted against defects in workmanship and materials for a period of one year (12 months) from date of shipment, provided the product remains unmodified and is operated under normal and proper conditions.

Notices and Disclaimers<sup>2</sup>

See footnote



**Battery Pack KT-21-61261-01**

A standard capacity (2200 mAh) Lithium Ion battery pack for your MC90XX Brick and Gun configurations.



**DC and Serial 'Y' Cable 25-79407-01**

A single cable that can ensure the performance of your mobile RFID reader and charging cradle.

**USB/Client Communication Cable 25-68596-01R**

This USB active sync cable provides USB communication between the MC1000 single slot cradle and a host system.



**4-Slot Spare Battery Charger SAC9000-4000R**

This battery charger "toaster" charges spare standard and high-capacity batteries for the MC90XX Gun Brick and Short mobile computers.

**Mounting Kit RF1000-FL-MOUNTKT1**

This mounting kit contains all the hardware needed to mount the RD5000 Mobile RFID Reader on your mobile warehouse vehicles.



**DC Power Cable 25-79405-01**

This advanced device provides power to your RFID cradle chargers to ensure uninterrupted performance of your RFID mobile readers.

**Power Supply for 4-Slot Cradles 50-14000-241R**

This versatile power supply is for a variety of rugged, digital-assisted, RFID, voice-directed and vehicle mounted mobile computers.