

# XR400 RFID Reader

## RFID FIXED READERS

### Optimize inventory and asset management with a flexible, enterprise-class RFID reader

Symbol's XR400 is a multi-protocol RFID reader designed to function as part of a complete RFID system for accurately tracking the location and status of inventory and assets across your enterprise. Whether in a distribution center, on the manufacturing floor or in a store front, the XR400 gives you the ability to read, update and transfer RFID tag information in real time to your enterprise systems.

### Future-proof your RFID system

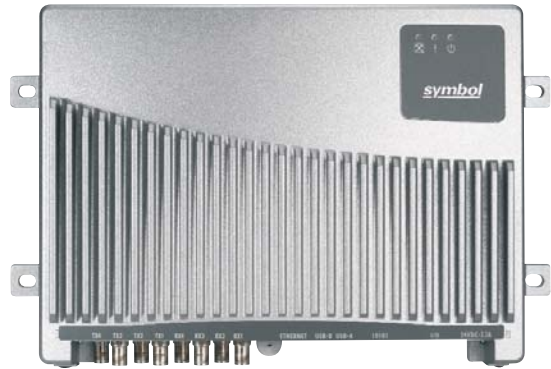
The multi-protocol XR400 is designed to meet your needs, both now and in the future, providing built-in support for all types of Electronic Product Code (EPC) passive tags. You're able to deploy it now to work with existing RFID technology, including EPC-compliant Generation (Gen) 1, Class 0 (read-only and read/write) and Class 1 tags. Then, when you're ready, you simply upgrade the XR400 through firmware when available to accommodate new tag protocols such as Gen 2. Because the XR400 will continue to meet your needs over time, you don't have to wait to begin realizing the benefits of RFID.

### Ensure high performance in multi-reader environments

The most accurate RFID data capture device available on the market, the XR400 decreases the chances of reader errors, providing you with real-time data you're able to rely on throughout your operations. It offers enterprise-class features including a proven dense reader mode and interference-reducing listen before talk functionality to ensure accurate data capture and long read ranges in installations where multiple antennas and readers are deployed in close proximity.

### Increase your system's capabilities with hosted application processing

Built on an extensible, open architecture and industry-standard Microsoft® operating system, the XR400 gives you a platform for hosting—and quickly customizing—productivity-enhancing third-party software tools to support your business operations. For example, you might host an application to direct the flow of goods through your warehouse or quickly adapt a custom application to report the status of automated components, such as conveyors, in a manufacturing environment. And since the XR400 comes with a development tool kit, you'll be able to create customized filtering and management applications to ensure the right data is reaching your enterprise applications.



#### FEATURES

#### BENEFITS

Cost-effective foundation for enterprise-class RFID implementations

Delivers high-performance RFID data capture and communication as a stand-alone reader or as a system component

Hosts applications directly on the reader

Enables the real-time enterprise by allowing you to host applications best suited to your business and customize them to your data and network management requirements

Enterprise connectivity

Integrates general-purpose input/output ports to manage devices ranging from light sensors and alarms to Web cameras and display screens

Multi-protocol functionality

Supports Gen 1 RFID tag constructs, and is Gen 2-ready

Open standards-based architecture

Allows rapid development of custom software specifically tailored to meet data filtering and management requirements and lets you embed third-party applications for higher performance

Durable construction

Maximizes uptime and reduces maintenance and repair costs

## Build a powerful enterprise system

Our RFID products span the entire spectrum of components required for a successful enterprise RFID solution, from fixed and mobile readers to packaged systems and services. All are designed for rapid deployment, simplified management, long life and seamless interoperability, so you get measurable return on investment and long-term value.

The XR400 integrates general-purpose input/output ports to manage devices ranging from light sensors and alarms to Web cameras and display screens. With these peripherals, you are able to use RFID to activate various business processes, including build-to-order assembly lines that are reconfigured based on the specific products being received on the conveyer belt; real-time alerts that stop forklift drivers from delivering products to the wrong location; and "handle with care" rules that signal an item's fragility at the moment it passes by a dock door reader.

## Get support from start to finish

At Symbol, we help you get the most from RFID by offering the services you need to successfully incorporate RFID technology into your environment. Our Professional Services form the foundation of a successful RFID solution with a complete suite of services from planning and assessment through implementation, while our Customer Services help ensure ongoing continuity of operations by delivering management and maintenance support once your solution is implemented.

For more information about the XR400, please visit us on the Web at [www.symbol.com/xr400](http://www.symbol.com/xr400) or contact us at +1.800.722.6234 or +1.631.738.2400.

## XR400 Specification Highlights

### XR400 RFID Reader

#### Physical Characteristics

Dimensions:	8.75 in. L x 11.75 in. W x 2.0 in. H (approx. 22 cm x 30 cm x 5 cm)	
Weight:	4.85 lbs. (2.2 kilograms)	
Base Material(s):	Aluminum; die-cast	
Visual Status Indicators:	LEDs for power (green), activity (yellow) and error (red)	

#### Connectivity

Network:	10/100 BaseT Ethernet RS232 Serial	RJ45 DB9
Devices:	Control I/O Port (12) (User programmable)	DB15

RF Connectors:	Reverse TNC
Read Point:	4 Read Points (4 transmit points, 4 receive points)
Power Supply:	+24v DC @ 1.2 amps

#### Environmental

Environmental Sealing:	IEC 529 IP43
Temperature:	IEC 60068-2-1/2/14 Operational: 0° to +55° C (+32° to +131° F) Storage: -20° to +70° C (-4° to +158° F)
Humidity:	IEC 60068-30/56 5-95% non-condensing
Vibration:	IEC 60068-2-6

#### Compliance

Safety:	EMI/RF Emissions
Regulatory:	Region 1, FCC Part 15 US

#### Hardware/OS & F/W Mgmt.

Memory:	Flash 64 MB; DRAM 64 MB
Operating system:	WinCE (Version 4.2.0)
Firmware upgrade:	Web-based and remote firmware upgrade capabilities
Management Protocols:	SNMP support and future support for MSP

#### Optional features

Frequency:	UHF band, 902-928 MHz US
Method:	Frequency Hopping Spread Spectrum (FHSS)
Power output:	Up to 30 dBm
Air Link Protocol:	EPC Global: Class 0, Class 0 Read/Write and Class 1; upgradeable to Gen 2
Synchronization:	Network Time Protocol
IP addressing:	Static and dynamic
Host Interface Protocols:	XML and Byte Stream

Warranty  
The XR400 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.

NOTICE: Repairs of this product may require the use of Symbol proprietary parts (and/or Symbol proprietary information). Symbol will sell these parts (and provide this proprietary information) only to end-user customers for self-service. It is Symbol's policy not to sell these parts to third-party service providers and not to allow a third-party service provider to act as an ordering or receiving agent for the parts necessary to repair this product. Applicable in the U.S. For all other countries, please contact your Symbol account manager or the local Symbol Customer Service representative in your area for further details.

## 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](http://www.symbol.com).

Corporate Headquarters  
**Symbol Technologies, Inc.**  
One Symbol Plaza  
Holtsville, NY 11742-1300  
TEL: +1.800.722.6234  
+1.631.738.2400  
FAX: +1.631.738.5990

For Asia Pacific Area  
**Symbol Technologies Asia, Inc.**  
(Singapore Branch)  
Asia Pacific Division  
230 Victoria Street #12-06/10  
Bugis Junction Office Tower  
Singapore 188024  
TEL: +1.65.6796.9600  
FAX: +1.65.6796.7199

For Europe, Middle East and Africa  
**Symbol Technologies**  
EMEA Division  
Symbol Place, Winnersh Triangle  
Berkshire, England RG41 5TP  
TEL: +44.118.9457000  
FAX: +44.118.9457000

For North America, Latin America and  
Canada  
**Symbol Technologies**  
The Americas  
One Symbol Plaza  
Holtsville, NY 11742-1300  
TEL: +1.800.722.6234  
+1.631.738.2400  
FAX: +1.631.738.5990

**Symbol Website**  
For a complete list of Symbol subsidiaries and business partners worldwide contact us at:  
[www.symbol.com](http://www.symbol.com)  
**E-mail**  
[info@symbol.com](mailto:info@symbol.com)

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