

# XR400

## RFID FIXED READERS

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

Symbol's XR400 is a multi-protocol RFID fixed 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.

### Experience the Gen 2 advantage

The XR400 reader has been certified for Generation (Gen) 2 compliance by EPCglobal™, an international, not-for-profit standards organization. This high-performing reader provides full support for the increased capabilities offered by Gen 2 such as key performance, capacity, security and RF efficiency advantages. In addition, the XR400's flexible design insures you have the best performance whether you are deploying Gen 2 tags or migrating from Gen 1 to Gen 2.

### Ensure high performance in multi-reader environments

One of the most accurate RFID data capture devices available on the market, the XR400 decreases the chance of reader errors, providing you with reliable real-time data throughout your operations. The XR400 is dense-reader mode certified by EPCglobal. The most demanding operational mode in Gen 2, dense-reader mode enables reliable and long read rates in dense RF environments where interference can occur when multiple RFID readers are deployed in close proximity to one another.

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

Built on an extensible, open architecture and industry-standard Microsoft® operating system, the XR400 reader 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 forklifts or conveyors.

The XR400 increases productivity through the ability to embed a wide array of software applications. For example, IBM's WebSphere® RFID Device Infrastructure can be embedded in the XR400 to provide a secure, reliable Java platform to streamline logistics, improve inventory management, and provide better visibility of products throughout the supply chain, creating an "intelligent" RFID reader to automate and manage the incoming RFID data. WRDI applications process and filter the incoming RFID data for integration with upstream IT systems, ensuring delivery of critical RFID events to enterprise IT systems. These events



#### FEATURES

Cost-effective foundation for industrial-class RFID implementations

Hosts applications directly on the reader

Enterprise connectivity

Tag protocol functionality

Open standards-based architecture

Durable construction

#### BENEFITS

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

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

Integrates control I/O ports to allow sensor and actuator peripherals (i.e. lights, PLCs) on forklifts, conveyors and portals to be intelligently initialized, directed and controlled

Supports EPC Gen 2 and Gen 1 tag constructs

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

Maximizes uptime and reduces maintenance and repair costs

can provide sales trend analysis, providing management with the decision-making tools to optimize inventory management - and reduce inventory levels and associated 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 control I/O ports to manage devices such as light sensors and alarms. 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 conveyor 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.

## Specification Highlights

### XR400

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:	Die-cast aluminum	
Visual Status Indicators:	LEDs for power (green), activity (yellow) and error (red)	
Connectivity		
Network:	10/100 BaseT Ethernet	RJ45
External Interfaces:	Control I/O Port (12) USB Host Hardware RS232 Serial Console	DB15 USB DB9
RF Connectors:	Reverse TNC	
Read Points:	4 Read Points (4 transmit points, 4 receive points)	
Power Supply:	+24v DC @ 1.2 amps	
Environmental		
Temperature:	IEC 60068-2-1/2/14 Operational: -4° to +122° F / -20° to +50° C @ 95% RH Storage: -4° to +158° F / -40° to +70° C @ 85% RH	
Humidity:	IEC 60068-30/56 5-95% non-condensing	
Vibration:	IEC 60068-2-6	
Compliance		
Safety:	EMI/RF Emissions	
Regulatory:	FCC Part 15C IC RSS210	
Hardware/OS & F/W Mgmt.		
Memory:	Flash 64 MB; DRAM 64 MB	
Operating system:	Win® CE (Version 4.2.0)	
Firmware upgrade:	Web-based and remote firmware upgrade capabilities	
Management Protocols:	SNMP support and future support for MSP	
Frequency:	UHF band, 902-928 MHz US	
Method:	Frequency Hopping Spread Spectrum (FHSS)	
Power output:	4W EIRP	
Tag Protocol:	EPC Gen 1 (Class 0 Read-only, Class 0 Read/Write, Class 1) and EPC 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. 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.

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