# XR400 RFID Reader

## 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. Gen 2 is the UHF RFID standard with the promise of global adoption and offers key performance, capacity, security and RF efficiency advantages. The XR400 supports all EPC-compliant tag constructs including Gen 2 and all classes of Gen 1 RFID tags. This 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

The most accurate RFID data capture device available on the market, the XR400 decrease the chance of reader errors, providing you with reliable real-time data throughout your operations. The XR400 is dense-reader mode certified by EPCglobal, Inc. 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. Dense-reader mode is just one of the enterprise features that Symbol has built its RFID legacy on since deploying the industry's first multi-protocol EPC RFID reader.

## 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 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 industrial-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 allow sensor and actuator peripherals (i.e. lights, PLCs) on forklifts, conveyors and portals to be intelligently initialized, directed and controlled |
| Tag protocol functionality | Supports EPC Gen 2 and Gen 1 tag constructs |
| 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 |

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The XR400 provides the foundation for future USB application support. Symbol is working with customers and partners to develop applications which intelligently direct and control reader-attached USB devices.

## 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 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 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**  or contact us at +1.800.722.6234 or +1.631.738.2400.

## 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: | Die-cast aluminum |
| Visual Status Indicators: | LEDs for power (green), activity (yellow) and error (red) |

**Connectivity**

| | | |
|---|---|---|
| Network: | 10/100 BaseT Ethernet | RJ45 |
| Devices: | Control I/O Port (12) | DB15 |
| | USB Host Hardware | USB |
| | RS232 Serial Console | 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: 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: | 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. 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.**

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