

## FIXED RFID READERS

### Industrial-class RFID reader delivers maximum functionality and benefits

Building on the tested and proven platform of the XR400, the XR440 Gen 2 reader from Symbol Technologies offers maximum functionality for large-scale RFID deployments. This strategic platform is designed to help enterprises achieve competitive advantage by increasing inventory visibility and process efficiency to effectively reduce costs and improve profitability. Reliable and efficient tag reading in dense RF environments reduces interference issues associated with multiple RFID readers in close proximity. The service-oriented architecture of the XR440 enables seamless integration and interoperability with your existing IT infrastructure — and maximum application flexibility. Robust RFID functionality includes support for standard back-end platforms, direct application hosting, and industrial applications that may require the ability to interact with industrial automation equipment such as ControlLogix PLCs. The XR440 also offers support for leading business systems including IBM's WebSphere® RFID Device Infrastructure (WRDI), Microsoft RFID infrastructure and SAP; leading development tools including .NET 2.0 and Java APIs; and off-the-shelf applications.

### High performance and manageability

The XR440 offers the performance, features and manageability required in enterprise RFID deployments. Superior read rates and enhanced read ranges make the XR440 ideal for multiple RFID applications — from dock doors and conveyor belts to the warehouse floor or store front. The XR440 offers outstanding performance in noisy environments through a lower receive noise sensitivity floor. Easy to deploy, application specific setup enables rapid and seamless integration into your environment, further reducing implementation time and costs. Advanced data collection features — such as filtering, reconciliation, user-defined association and selective visibility — deliver refined real-time information, delivering incremental benefits throughout the enterprise. The ability to incorporate alarms, light sensors and more from other automated asset equipment enables you to leverage RFID to activate a wide range of business processes. For example, dynamic reconfiguration of build-to-order assembly lines based on products passing by the readers on a conveyor belt. And the ability to control and maintain all XR440 readers from a single central location dramatically simplifies and reduces the costs associated with day-to-day management.

### Expand functionality and benefits with direct application hosting

The XR440 helps increase productivity through the ability to embed a wide array of software applications. For example, IBM's WRDI can be embedded in the XR440 to provide a secure, reliable Java platform to



#### FEATURES

#### BENEFITS

**Robust platform for industrial-class EPC Gen 2 RFID implementations**

Delivers high-performance RFID data capture and communication in dense reader environments

**Supports up to 4 read points**

Facilitates decreased deployment complexity and increased flexibility of RFID implementations

**Microsoft Windows® CE 5.0, direct application hosting, Intel XScale® processor with 64 MB RAM and 64 MB Flash**

Enables integration of wide range of third-party applications to maximize business operational efficiency; enables upgrading to meet future requirements; maximizes product lifespan; provides outstanding investment protection

**Open standards-based architecture**

Enables seamless integration with and leveraging of existing IT environment

**Enterprise connectivity through control I/O ports**

Expand RFID solutions to include intelligent initialization, direction and control of conveyor belts, portals and more

**Durable construction**

Maximizes uptime and reduces maintenance and repair costs

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 can provide sales trend analysis, providing management with the decision-making tools to optimize inventory management — and reduce inventory levels and associated costs. And the industry-standard Windows CE 5.0 operating system reduces the complexity associated with implementing and managing multiple platforms.

## Services complete the solution

To help you seamlessly and successfully integrate the XR440 into your environment, Symbol offers a complete suite of services that span the entire solution lifecycle — from initial assessment, commissioning and rollout through ongoing training and support. Symbol Advanced Services help you minimize potential issues and

maximize your investment, while Symbol Customer Services ensure your XR440 continues to operate at peak performance.

For more information about the XR440, please visit us on the Web at [www.symbol.com/XR440](http://www.symbol.com/XR440) or contact us at +1.800.722.6234 or +1.631.738.2400.

## XR440 Specifications

### Physical Characteristics

Dimensions: 8.75 in. L x 11.75 in. W x 2.0 in. H  
22cm L x 30cm W x 5cm H

Weight: 5 lbs/2.27kg

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 (12) – DB15; USB Host – 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: 32° to +141° F/-0° to +55° C  
Storage: -4° to +158° F/-20° to +70° C

Humidity: IEC 60068-30/56 5-95% non-condensing

Vibration: IEC 60068-2-6

Environmental Sealing: IP53

### Compliance

Safety: EMI/RF Emissions

Regulatory: Region 1, FCC Part 15 US

### Hardware/OS & F/W Management

Memory: Flash 64 MB; DRAM 64 MB

Operating system: Win CE (Version5.0)

Firmware upgrade: Web-based and remote firmware upgrade capabilities

Management Protocols: SNMP support and Airbeam level 2 support

Frequency: UHF band, 902-928 MHz US

Method: Frequency Hopping Spread Spectrum

Power Output: Up to 30 dBm

Air Link Protocol: Gen2

Synchronization: Network Time Protocol

IP addressing: Static and dynamic

Host Interface Protocols: XML/HTTP and Byte Stream

### Recommended Services

Customer Services: Service from the Start Advance Exchange Support

Advanced Services: Advanced Services for RFID

### Warranty

The XR440 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.

For information of product availability in your area, please contact your local Symbol representative.

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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