



XR Series RFID Fixed Readers

XR440 and XR480



FEATURES

Robust platform for industrial-class EPC Gen 2 RFID implementations

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

Support for 4 (XR440) or up to 8 (XR480) read points

Facilitates decreased deployment complexity and increased flexibility of RFID implementations

Increased Flexibility & Expanded Support

Integrated LLRP (low level reader protocol) provides for increased “plug and play” deployments into pre-existing RFID systems. The XR series also supports extended Gen 2 memory and 3rd-party antennas.

Support for U.S. and European standards

Flexibility to support global deployments including ETSI EN 302-208

Open standards-based architecture

Enables seamless integration with existing IT environment

Industrial-class RFID reader delivers maximum functionality and benefits

The XR Series Readers from Motorola offer 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, resulting in reduced costs and improved profitability.

Reliable and efficient tag reading in dense RF environments eliminates interference issues associated with multiple RFID readers in close proximity. The standards-based service-oriented architecture 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 the ability to interact with additional asset automation equipmentsuch as forklifts and conveyor belts. Support for leading business systems includes IBM’s Data Capture and Delivery Solution (DCDS), Microsoft RFID Biz Talk Server and SAP as well as leading development tools including .NET 2.0 and Java APIs and off-the-shelf applications. The flexible product line can support deployments around the world: the XR440 four port device operates in 902-928 MHz US, and the XR480 supports the European standard ETSI EN 302-208 and up to eight read points.

Next generation performance and manageability

The easy to deploy devices provide a rich feature set to support the RFID applications of today and tomorrow. Superior read rates and enhanced read ranges easily accommodate multiple RFID applications — from dock doors and conveyor belts to the warehouse floor or store front.

Advanced data collection features enable the rapid delivery of refined real-time information. The ability to incorporate alarms, light sensors and more from other automated asset equipment enables a wide range of business processes — from dynamic reconfiguration of build-to-order assembly lines to real-time alerts that can prevent the placement of inventory in the wrong location. And the ability to control and maintain all XR Series 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 ability to embed a wide array of software applications, such as IBM’s DCDS, enables the creation of an “intelligent” RFID reader capable of automating and managing the incoming RFID data. The result is the real-time visibility needed across the supply chain to improve productivity, optimize inventory management — and reduce inventory levels and associated costs.

End-to-end lifecycle support

Motorola offers true end-to-end solutions, including the services you need to successfully incorporate RFID technology into your environment — from assistance with planning through implementation to ongoing support.

For more information about the XR Series RFID Readers, please visit us on the Web at www.symbol.com/products/XRSeries or access our global contact directory at www.symbol.com/contact

SPECIFICATION SHEET

XR SERIES RFID FIXED READERS
XR440 and XR480

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

Advanced data collection features

Filtering, reconciliation, user-defined association, selective visibility and more enable the delivery of refined real-time information, enabling the rapid collection and delivery of meaningful data

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

Enables easy 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

XR Series Specifications

| Physical Characteristics | XR440 | XR480 |
|---|--|---|
| Dimensions: | 22cm L x 30cm W x 5cm H (8.75 in. L x 11.75 in. W x 2.0 in. H) | |
| Weight: | 2.27kg/5 lbs | 2.27kg/5 lbs 2.2kg/4.85 lbs |
| 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 | Control I/O (12) – DB15; USB Host – USB Type A; USB Client – USB Type B; RS232 Serial Console – DB9 |
| RF Connectors: | Reverse TNC | 8 Reverse TNC |
| Read Points: | 4 read points (4 transmit points, 4 receive points) | Up to 8 read points in single-port mode; up to 4 read points in dual-port mode |
| Power Supply: | +24v DC @ 1.2 amps | |
| Environmental | | |
| Temperature: | IEC 60068-2-1/2/14 | |
| Operational: | -20° to +55° C/-4° to +141° F | |
| Storage: | -40° to +70° C/-40° to +158° F @85% RH | |
| Humidity: | IEC 60068-30/56 5-95% non-condensing | |
| Vibration: | IEC 60068-2-6 | |
| Environmental Sealing: | IP53 | N/A |
| Compliance | | |
| Safety: | EMI/RF Emissions | UL60950-01 |
| Regulatory*: | Region 1, FCC Part 15 US | ETSI EN 302-208 |
| Hardware/OS & F/W Management | | |
| Memory: | Flash 64 MB; DRAM 64 MB | |
| Operating system: | Win CE (Version 5.0) | |
| Firmware upgrade: | Web-based and remote firmware upgrade capabilities | |
| Management Protocols: | SNMP support and AirBEAM level 2 support | SNMP support and future support for MSP |
| Tag Protocol: | EPC Gen 2 (Dense Reader Mode) | |
| Frequency: | UHF band, 902-928 MHz US | UHF band, 865.7 – 867.5 MHz |
| Method: | Frequency Hopping Spread Spectrum | |
| Power Output: | Up to 30 dBm | |
| Air Link Protocol: | EPC Gen 2 (Dense Reader Mode) | |
| Synchronization: | Network Time Protocol | |
| IP addressing: | Static and dynamic | |
| Host Interface Protocols: | XML and Byte Stream | |
| Warranty | The XR440 and XR480 are 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. | |
| Recommended Services | | |
| Customer Services: | Service from the Start Advance Exchange Support | |
| Advanced Services: | Advanced Services for RFID | |

*Note: The XR480 is not available in all European countries due to the ongoing in-country approval for the regulatory standard.

NOTICE: Repairs of this product may require the use of Motorola proprietary parts (and/or Motorola 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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