XR Series RFID Fixed Readers

XR440 and XR480

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

Open standards-based architecture
Enables seamless integration with 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

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

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:	0° to +55° C/32° to +141° F	-10° to +60° C/14° to +140° F @ 95% RH
Storage:	-20° to +70° C/-4° to +158° F	-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.

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