



# XR 480 RFID Fixed Reader



## 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 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.

### 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

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

The XR 480 RFID Reader 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 equipment such as forklifts and conveyor belts. Support for leading business systems includes IBM’s Data Capture and Delivery Solution (DCDS), Microsoft RFID BizTalk Server and SAP as well as leading development tools including .NET 2.0 and Java APIs and off-the-shelf applications. 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 [motorola.com/rfid](http://motorola.com/rfid) or access our global contact directory at [www.motorola.com/enterprisemobility/contactus](http://www.motorola.com/enterprisemobility/contactus)

## SPECIFICATION SHEET

XR 480 RFID FIXED READER

### 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 480 Specifications

Physical Characteristics	
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 2.2kg/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 Type A; USB Client – USB Type B; RS232 Serial Console – DB9
RF Connectors:	8 Reverse TNC
Read 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
Compliance	
Safety:	UL60950-01
Regulatory*:	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 future support for MSP
Tag Protocol:	EPC Gen 2 (Dense Reader Mode)
Frequency:	UHF band, 865.7 – 867.5 MHz
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 XR480 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.
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). Motorola 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 Motorola account manager or the local Motorola Customer Service representative in your area for further details.



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