



MOTOROLA FX7500

ADVANCED FIXED RFID READER FOR BUSINESS CLASS ENVIRONMENTS

BETTER PERFORMANCE. BETTER VALUE. THAT'S WHERE WE STARTED.

You know that the right RFID solution can help you keep track of the people and products that matter most to you – and save valuable time and money in the process – but only if the technology can capture data quickly, accurately and cost-effectively enough to keep up with your business. The faster your business moves, the more your business-critical applications will demand from an RFID reader. And these days, no one is slowing down their pace of business.

RFID begins with the radio. So that's where Motorola began with the Motorola FX7500 Fixed RFID Reader. We created a new RFID radio technology, purposely designed from the ground up for faster, more accurate read rates, and more consistent performance even in challenging environments. This software-based radio technology effectively future-proofs your RFID investment by delivering flexibility to implement future upgrades and improvements with minimal investment. Then we paired that radio with a new, more flexible Linux-based network architecture that integrates the tools and open-standard interfaces you need for fast, easy deployment with your RFID and back-end applications.

The result is a fixed RFID reader that sets a new performance standard – delivering peak performance at all times with excellent reader sensitivity and better interference rejection, at a lower cost per read point. It works better. It costs less.

EASY TO DEPLOY, SIMPLE TO MANAGE – IN ANY ENTERPRISE, LARGE OR SMALL

Ever wished you could minimize the gap between your technology dream and its reality? Everything about the Motorola FX7500 is designed to get your RFID plan off the drawing board and into your business environment, without delays, complications or unexpected costs.

Installation is dead simple. Hang the supplied bracket, then snap the reader in place. No outlet nearby? No problem. Integrated Power over Ethernet (PoE) lets you place the FX7500 where it is needed without installing extra outlets – ideal for large open areas. Once plugged into the network, devices are auto-detected; for most applications, pre-defined configuration files and a built-in testing tool let you simply verify that your FX7500 readers are up, running and ready to operate. Port configuration options let you deploy exactly the number of read points you need – no need for expensive overlaps.

For large scale global deployments, the FX7500 helps reduce costs by conforming out-of-the-box with major worldwide RFID standards and interfaces, including FCC and ETSI EN 302 208, LLRP and Reader Management. IPv6, FIPS and TLS compliance help ensure network security. A built-in USB host port with select third party adaptors provides easy connectivity with Wi-Fi and Bluetooth networks. Add the FX7500's Auto mode configuration and third-party application hosting capabilities, and you have an unbeatable workhorse that is adaptable to multiple application environments – the ideal platform for your RFID solution.

FEATURES

All-new high performance radio technology

Higher sensitivity, improved interference rejection and echo cancellation means you get the best-in-class dense reader mode performance, up to 1200+ tags/sec in FMO mode.

Integrated Power Over Ethernet (POE), optically isolated GPIO, USB Client and Host ports with Wi-Fi and Bluetooth connectivity

All the tools you need for fast, easy deployment and simplified ongoing management of your RFID applications are built right into the FX7500 architecture.

2-port and 4-port reader configurations

More configuration options mean more flexibility to optimize your read field. Deploy precisely the number of read points you need for proper coverage, no more, no less, and reduce your TCO.

Plenum Area Rated

The FX7500 is approved and suitable for environmental air handling space installation, so it can operate effectively within walls and ceilings.

SMART LOOKS, SMART INVESTMENT

The Motorola FX7500 comes in a sleek, attractive form factor with a low profile and compact footprint, at home in nearly any business environment. But it also looks good on the balance sheet, with an impressive array of integrated features and functionality that pack value for your business class applications. An integrated optically isolated General Purpose Input/Output (GPIO) interface means there's no need to purchase, install and manage additional hardware. The ability to host productivity-enhancing, third-party software tools, like Microsoft BizTalk and IBM's Web Sphere, makes it easy to support your business operations. Available two or four monostatic port option adds deployment flexibility so you can purchase only the readers you need, no more, no less. In short, building on the FX7500 lets you protect your RFID investment and achieve a lower total cost of ownership.

SPECIFICATIONS CHART

PHYSICAL CHARACTERISTICS

Dimensions	7.7 in. L x 5.9 in. W x 1.7 in. D (19.56 cm L x 14.99 cm W x 4.32 cm D)
Weight	1.9 lbs ± 0.1 lbs (0.86 kg ± 0.05 kg)
Housing Material	Die-cast aluminum, sheet metal and plastic
Visual Status Indicators	Multicolor LEDs: Power, Activity, Status and Applications
Mounting	Keyhole and standard VESA (75mm x 75mm)

CONNECTIVITY

Communications	10/100 BaseT Ethernet (RJ45) w/ POE support; USB Client (USB Type B), USB Host Port (Type A)
General Purpose I/O	2 inputs, 3 outputs, optically isolated (Terminal Block)
Power Supply	POE, POE+ or +24V DC (UL Approved) 12V-48VDC operation can be supported
Antenna Ports	FX 7500-2: 2 mono-static ports (Reverse Polarity TNC) FX 7500-4: 4 mono-static ports (Reverse Polarity TNC)

ENVIRONMENTAL

Operating Temp.	-4° to +131° F/-20° to +55° C
Storage Temp.	-40° to +158° F/-40° to +70° C
Humidity	5-95% non-condensing
Shock and Vibration	MIL-STD-810G

REGULATORY COMPLIANCE

Safety	UL 60950-01, UL 2043, IEC 60950-1, EN 60950-1
RF/EMI/EMC	FCC Part 15, RSS 210, EN 302 208, ICES-003 Class B, EN 301 489-1/3
SAR/MPE	FCC 47CFR2:OET Bulletin 65; EN 50364
Other	ROHS, WEEE

END-TO-END LIFECYCLE SUPPORT

No matter what help you might need, we have you covered. Motorola offers 'from the manufacturer' expertise throughout the entire lifecycle of your solution – from assessment, commissioning and rollout to ongoing training and day-to-day support. RFID Advanced Services can help you tailor your solution for your business, processes and environment, so you get peak performance and maximum benefits from your pilot or roll-out. And post deployment, Motorola's Support Services can help you keep your RFID solution up and running day in and day out, with service programs that include 24x7 on-site coverage and preventive maintenance visits.

To learn more about the Motorola FX7500 RFID Reader, visit us on the web at motorolasolutions.com/FX7500 or access our global contact directory at motorolasolutions.com/contactus

HARDWARE, OS AND FIRMWARE MANAGEMENT

Memory	Flash 512 MB; DRAM 256 MB
Operating System	Linux
Firmware Upgrade	Web-based and remote firmware upgrade capabilities
Management Protocols	RM 1.0.1 (with XML over HTTP/HTTPS and SNMP binding); RDMP
Network Services	DHCP, HTTPS, FTPS, SFTP, SSH, HTTP, FTP, SNMP and NTP
Network Stack	IPv4 and IPv6
Security	Transport Layer Security Ver 1.2, FIPS-140
Air Protocols	EPCglobal UHF Class 1 Gen2, ISO 18000-6C
Frequency (UHF Band)	Global Reader: 902 MHz – 928 MHz (Maximum, supports countries that use a part of this band), 865 MHz – 868 MHz US (only) Reader: 902 MHz – 928 MHz
Transmit Power Output	10 dBm to +31.5 dBm (POE+, 12V ~ 48V External DC, Universal 24V DC Power Supply); +10 dBm to +30.0 dBm (POE)
Max. Receive Sensitivity	-82 dBm
IP addressing	Static and Dynamic
Host Interface Protocol	LLRP
API Support	Host Applications – .NET, C and Java EMDK; Embedded Applications – C & Java SDK
Warranty	The FX7500-2 and FX7500-4 are warrantied 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

Support Services	Service from the Start Advance Exchange On-Site System Support Support
Advanced Services	RFID Design and Deployment Services

Support for worldwide standards (FCC, ETSI EN 302 208) in either 4-port and 2-port mono-static antenna configurations

- **EPC standards-based defined reader management**
- **Auto-discovery**
- **Flexible firmware upgrade features**

Seamlessly integrates with existing IT environments; enables remote and centralized management; simplifies and reduces the cost of set-up, deployment, testing and management

Next generation reader platform, including dense reader mode support

Best-in-class read rates deliver superior read performance

Linux: 512 MB Flash/256 MB RAM

Integration of a wide range of third-party applications for fast application deployment; supports upgrading to meet future requirements; maximizes product lifespan; provides outstanding security and investment protection

EPC Global LLRP and RM interface support; comprehensive API support – .NET, C and Java

Simplifies application development

Part number: SS-FX7500.
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