



ZEBRA

# FX7500 FIXED RFID READER

## Advanced Fixed RFID Reader For Business Class Environments

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 Zebra began with the 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 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

### 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 Blue-tooth connectivity

All the tools you need for fast, easy deployment and simplified on-going 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

#### 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;

## ADVANCED FIXED RFID READER FOR BUSINESS-CLASS ENVIRONMENTS

FOR MORE INFORMATION, VISIT [WWW.ZEBRA.COM/FX7500](http://WWW.ZEBRA.COM/FX7500) OR ACCESS OUR CONTACT DIRECTORY AT [WWW.ZEBRA.COM/CONTACT](http://WWW.ZEBRA.COM/CONTACT)

# FX7500 Specifications

## PHYSICAL CHARACTERISTICS

<b>Dimensions</b>	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)
<b>Weight</b>	1.9 lbs ± 0.1 lbs (0.86 kg ± 0.05 kg)
<b>Housing Material</b>	Die-cast aluminum, sheet metal and plastic
<b>Visual Status Indicators</b>	Multicolor LEDs: Power, Activity, Status and Applications
<b>Mounting</b>	Keyhole and standard VESA (75mm x 75mm)

## ENVIRONMENTAL

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

## REGULATORY COMPLIANCE

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

## RECOMMENDED SERVICES

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

## CONNECTIVITY

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

## HARDWARE, OS AND FIRMWARE MANAGEMENT

<b>Processor</b>	Texas Instruments AM3505 (600 Mhz)
<b>Memory</b>	Flash 512 MB; DRAM 256 MB
<b>Operating System</b>	Linux
<b>Firmware Upgrade</b>	Web-based and remote firmware upgrade capabilities
<b>Management Protocols</b>	RM 1.0.1 (with XML over HTTP/HTTPS and SNMP binding); RDMIP
<b>Network Services</b>	DHCP, HTTPS, FTPS, SFTP, SSH, HTTP, FTP, SNMP and NTP
<b>Network Stack</b>	IPv4 and IPv6
<b>Security</b>	Transport Layer Security Ver 1.2, FIPS-140
<b>Air Protocols</b>	EPCglobal UHF Class 1 Gen2, ISO 18000-6C

<b>Frequency (UHF Band)</b>	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
<b>Transmit Power Output</b>	10 dBm to +31.5 dBm (POE+, 12V ~ 48V External DC, Universal 24V DC Power Supply); +10 dBm to +30.0 dBm (POE)
<b>Max. Receive Sensitivity</b>	-82 dBm
<b>IP addressing</b>	Static and Dynamic
<b>Host Interface Protocol</b>	LLRP
<b>API Support</b>	Host Applications – .NET, C and Java EMDK; Embedded Applications – C & Java SDK
<b>Warranty</b>	The FX7500-2 and FX7500-4 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.

## Ideal For These Applications:

### Industries

- Warehousing Management
- Retail
- Transportation
- Manufacturing



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