PRODUCT SPEC SHEET ZEBRA FX7500



## **ZEBRA 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 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 an

unbeatable workhorse that is adaptable to multiple application environments - the ideal platform for your RFID solution

#### SMART LOOKS, SMART INVESTMENT

The 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



#### 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 FM0 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 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 optimise 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 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.

#### END-TO-END LIFECYCLE SUPPORT

No matter what help you might need, we have you covered. Zebra 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, Zebar's Support Services can help you keep your RFID solution up and running day in and day out, with service programmes that include 24x7 on-site coverage and preventive maintenance visits.

# To learn more about the ZebraFX7500 RFID Reader, visit us on the web at <u>zebra.com/fx7500</u> or access our global contact directory at <u>zebra.com/contact</u>

### **SPECIFICATIONS CHART**

PHYSICAL CHARACTERISTICS         Dimensions       77 in 1 x 59 in W x 17 in D (		HARDWARE, OS AND FIRMWARE MANAGEMENT		
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)	Processor	Texas Instruments AM3505 (600 Mhz )	
Weight	1.9 lbs ± 0.1 lbs (0.86 kg ± 0.05 kg	Operating System	Linux	
Housing Material	) Die-cast aluminium, sheet metal	Security	Transport Layer Security Ver 1.2, FIPS-140	
	and plastic	Memory	Flash 512 MB; DRAM 256 MB	
Visual Status Indicators	Multicolor LEDs: Power, Activity, Status and Applications	Firmware Upgrade	Web-based and remote firmware upgrade capabilities	
Mounting	Keyhole and standard VESA ( 75mm x 75mm)	Management Protocols	RM 1.0.1 (with XML over HTTP/ HTTPS and SNMP binding); RDMP	
CONNECTIVITY		Network Services	DHCP, HTTPS, FTPS, SFPT, SSH	
Communications	10/100 BaseT Ethernet (RJ45) w/		, HTTP, FTP, SNMP and NTP	
	POE support; USB Client (USB Type B), USB Host Port (Type A)	Network Stack	IPv4 and IPv6	
General Purpose I/O	2 inputs, 3 outputs, optically isolated (Terminal Block)	Air Protocols	EPCglobal UHF Class 1 Gen2, ISO 18000-6C	
Power Supply	POE, POE+ or +24V DC (UL Approved) 12V-48VDC operation can be supported	<ul> <li>Frequency (UHF Band)</li> </ul>	Global Reader: 902 MHz – 928 MHz (Maximum, supports countries that use a part of this band), 865 MHz – 868 MHz US (	
Antenna Ports	FX 7500-2: 2 mono-static ports (		only) Reader: 902 MHz – 928 MHz	
	Reverse Polarity TNC) FX 7500-4: 4 mono-static ports (Reverse Polarity TNC)	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)	
ENVIRONMENT	IRONMENTAL		-82 dBm	
Operating Temp.	-4° to +131° F/-20° to +55° C	Sensitivity		
Storage Temp.	-40° to +158° F/-40° to +70° C	IP addressing	Static and Dynamic	
Humidity	5-95% non-condensing	<ul> <li>Host Interface</li> <li>Protocol</li> </ul>	LLRP	
Shock and Vibration	MIL- STD-810G	API Support	Host Applications – .NET, C and	

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

REGULATOR	Y COMPLIANCE	-	Java EMDK; Embedded Applications – C & Java SDK	
Safety	UL 60950-01, UL 2043, IEC 60950 -1, EN 60950-1	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.	
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			
			RECOMMENDED SERVICES	
		Support Services	Service from the Start Advance Exchange On-Site System Support Support	
		Advanced Services	RFID Design and Deployment Services	





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#### ZEBRA TECHNOLOGIES