



ZEBRA

# FX9600 Fixed UHF RFID Reader

## TOP OF THE LINE PERFORMANCE FOR HIGH-VOLUME RUGGED ENVIRONMENTS

To achieve maximum visibility and efficiency in your most rugged environments, your business needs an RFID reader that can keep up with the high volume and wide variety of pallets, cases and tagged items that go in, out and through your warehouse and dock doors each day. The Zebra FX9600 Fixed UHF RFID Reader delivers the performance and features you need to handle it all. With support for Power over Ethernet, IP53 sealing and up to eight RF ports, the FX9600 brings a new level of cost efficiency to passive UHF asset tracking and inventory management, without compromising on performance. Industry-leading read rates, long read ranges and exceptional RF sensitivity ensure you can automate inventory management — from receiving and putaway to picking and shipping — without errors and without bottlenecks. The result? Increased efficiency and accuracy every time your inventory is touched, reduced labor costs and the delivery of the right product to the right customer, on time, every time. When you need industry-best RFID performance, the FX9600 delivers.



### TOP OF THE LINE PERFORMANCE

#### High RF sensitivity for superior performance and efficiency

The faster and more accurately you can receive, inventory, pick and ship, the more efficient and profitable your operation can be. The FX9600's eight highly sensitive monostatic RF ports provide the exceptionally high RF sensitivity required to deliver the greatest accuracy and longer read ranges. The result is the highest throughput in this class — even in the densest RF environments with challenging materials, such as metal or liquids.

#### Most power in its class

With a best-in-class processor and expanded memory, the FX9600 offers the power needed to support very high traffic throughput and sophisticated software applications.

### UNRIVALED DEPLOYMENT SIMPLICITY

#### Parse data at the edge with embedded applications

The FX9600 can host embedded applications, so data can be parsed directly on the reader. Since data is processed in real time at the network edge, the amount of data transmitted to your backend servers is substantially reduced, increasing network bandwidth and improving network performance. Latencies are reduced, improving application performance. And the integration of data into a wide variety of middleware applications is simplified, reducing deployment time and cost.

#### Easy, low-cost deployment with support for PoE and PoE+

Eliminate the time and cost required to run power drops to each reader with support for PoE (802.3af) or PoE+ (802.3at). And either PoE+ or a 24V power supply provide industry-best full output power, eliminating the loss of power due to long cable runs and connectors. You get maximum tag reads, maximum read ranges and the maximum RFID performance required to get coverage you need with fewer readers.

#### Directly connect to Wi-Fi networks and Bluetooth-enabled devices

The FX9600 supports a Wi-Fi/Bluetooth dongle for direct wireless connectivity to your Wi-Fi network, as well as Bluetooth-enabled computers and other devices. There's no need for hard-wired connections to the access point.

#### Compact, streamlined layout

A streamlined layout with all cabling and input/output ports located on one side simplifies deployment and management.

### INDUSTRY BEST TCO

#### Rugged design for tough environments

An extremely durable diecast aluminum housing and IP53 sealing deliver the durability you need to ensure uptime — even in damp, dusty work areas, extreme heat or subzero temperatures.

#### More read points per reader

In addition to a four-port model, the FX9600 comes in an eight-port model, enabling you to cover more dock doors and portals with fewer readers — significantly lowering your initial investment, as well as deployment and management time and costs.

#### Get the most out of your RFID investment — from the leader in RFID

Zebra has more fixed, handheld and portal RFID systems installed than any other RFID provider, giving you the peace of mind that comes from choosing RFID products that are well-tested in practically every industry — and in some of the world's largest companies. And with over 300 RFID technology patents that have allowed us to deliver many industry firsts, you can count on our best-in-class advanced technologies to maximize the performance of your RFID solution.

**THE FX9600 — INDUSTRY-BEST RFID PERFORMANCE FOR YOUR MOST DEMANDING ENVIRONMENTS.**

# FX9600 Specifications

PHYSICAL CHARACTERISTICS	
Dimensions	10.75 in. L x 7.25 in. W x 2.0 in. D 27.3 cm L x 18.4 cm W x 5 cm D
Weight	Approx. 4.4 lbs/2.13 kg
Housing Material	Die-cast aluminum, meets IP53 standards
Visual Status Indicators	Multicolor LEDs: Power, Activity, Status and Applications
RFID CHARACTERISTICS	
Max Receive Sensitivity	-86 dBm monostatic
Air Protocols	ISO 18000-63 (EPC Class 1 Gen 2 V2)
Frequency (UHF Band)	Global Reader: 902 MHz - 928 MHz (Also supports countries that use a part of this band), 865 MHz - 868 MHz US (only) Reader: 902 - 928 MHz
Transmit Power Output	0 dBm to +33 dBm (POE+ 802.3at, Universal 24V DC Power Supply) 0 dBm to +31.5 dBm (POE 802.3af)
CONNECTIVITY	
Communications	10/100 BaseT Ethernet (RJ45); USB Host & Client (Type A & B); Serial (DB9)
General Purpose I/O	4 inputs, 4 outputs, optically isolated (Terminal Block)
Power Supply	POE (802.3af) POE+ (802.3at) +24V DC (UL Approved)
Antenna Ports	FX9600-4: 4 monostatic ports; (Reverse Polarity TNC) FX9600-8: 8 monostatic 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
Sealing	IP53

HARDWARE, OS AND FIRMWARE MANAGEMENT	
Processor	Texas Instruments AM3505 (600 Mhz)
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
API Support	Host Applications – .NET, C and Java EMDK Embedded Applications – C and Java SDK
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 For Malaysia: 919-923 MHz
SAR/MPE	FCC 47CFR2:OET Bulletin 65; EN 50364
Other	ROHS, WEEE
RECOMMENDED SERVICES	
Support Services	Zebra OneCare; On-Site System Support
Advanced Services	RFID Design and Deployment Services
WARRANTY	
The FX9600-4 and FX9600-8 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. For complete warranty statement, go to: <a href="http://www.zebra.com/warranty">http://www.zebra.com/warranty</a>	
Specifications are subject to change without notice.	

