

Zebra Integrated RFID Portals

Automated inventory
and asset tracking



As inventory volumes and velocities grow, companies must maintain an accurate view over where assets are located as they move through the operation. The most efficient and effective means of automating inventory and asset tracking is to read RFID tags as they pass through portals or operational chokepoints. **Zebra Integrated RFID Portals** empower companies to manage and monitor inventory, control costs, and optimize workflows with fast, reliable, highly automated updates when tagged assets pass through a portal.

Key features

- **Fully integrated and ready to sell.** Unlike competing solutions that must be assembled on site with components sourced from and supported by different manufacturers, Zebra Integrated RFID Portals are fully assembled products, convenient and easy to deploy using Power over Ethernet (PoE).
- **Complementary solution.** Zebra Integrated RFID Portals are fully compatible with our broad portfolio of RFID and location systems, supported and backed by Zebra for a smooth customer experience throughout the life of the product.
- **Proven technologies.** Zebra Integrated RFID Portals feature Zebra fixed RFID readers for maximum efficiency and visibility. Specialized antennas tune out cross-talk, reducing erroneous reads and sustaining a highly accurate read rate through the portal.
- **Purpose-built engineering.** Zebra Integrated RFID Portals are specifically designed for the applications they support, built to withstand transportation, logistics, manufacturing, and healthcare environments.

For more information, visit zebra.com/rfid-integrated-portals

For warranty, services and support offerings, please contact Zebra Technologies. Specifications are subject to change without notice.

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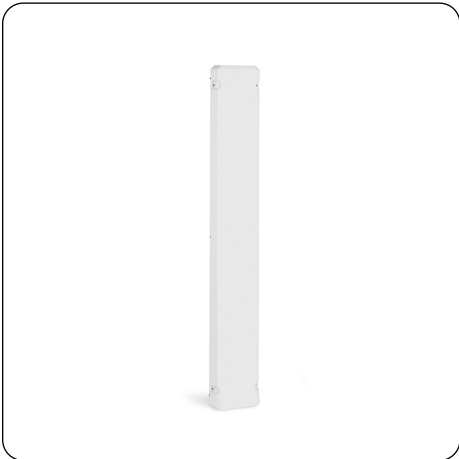
Zebra Integrated RFID Portal specifications



Zebra D800 Transition RFID Portal

Used primarily at dock doors, these integrated portals can reduce the need for human intervention and manual scanning at common chokepoints.

Dimensions	D800 (V4): 96"H x 15"L x 4"W / 244 x 38 x 10 cm D800 (V5): 96"H x 17"L x 7"W / 244 x 43 x 18 cm
Weight	D800 (V4): 45 lbs / 21 kg D800 (V5): 71 lbs / 33 kg
Operating temperature	-4°F to 131°F / -20°C to 55°C
Storage temperature	-40°F to 158°F / -40°C to 70°C
RFID reader	Zebra FX9600 RFID Reader
RFID antenna	Multi-Linear Wave® Antenna



Zebra D100 Wall-Mount RFID Portal

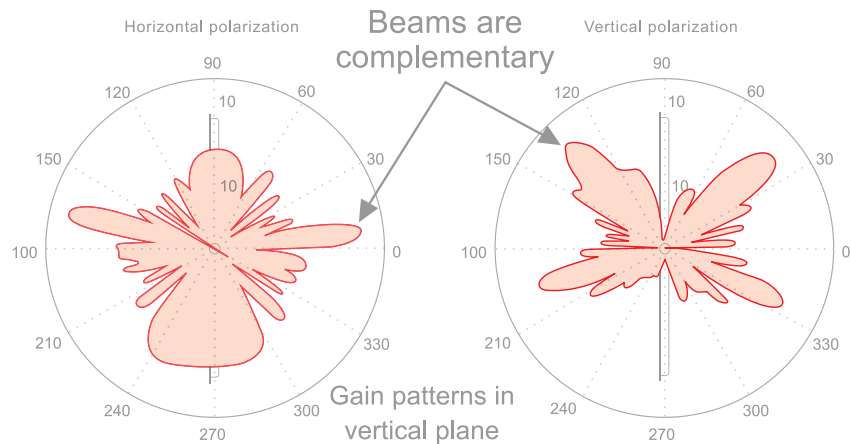
These fully enclosed, plug-and-play units mount easily beside doorways and hallways near storage rooms, offices, and warehouses to provide versatile RFID tracking.

Dimensions	A and B panels: 61"H x 9"L x 2"W / 155 x 23 x 5 cm
Weight	A panel: 10 lbs / 5 kg B panel: 8.5 lbs / 4 kg
Operating temperature	-4°F to 131°F / -20°C to 55°C
Storage temperature	-40°F to 158°F / -40°C to 70°C
RFID reader	Zebra FX7500 RFID Reader
RFID antenna	Multi-Linear Wave Antenna

Note: The A panel is powered via PoE and contains the reader and/or accessories provided as defined in the portal SKU. The B panel is a non-powered companion portal that contains only the appropriate number of antennas as defined in the portal SKU.

Multi-linear wave antenna specifications

Polarization beam diversity



Polarization	Multi-linear
Impedance	50 ohms
Gain	8.1 dBi
Maximum input power	10 watts
H-plane beam width	180 degrees
E-plane beam width	180 degrees
F-type coaxial cables	Included
Cable spec	RPTNC male to RPTNC male

Zebra FX9600 RFID Reader specifications

RFID characteristics

Max receive sensitivity	-86 dBm monostatic
Air protocols	ISO 18000-63 (EPC Class 1 Gen 2 V2)
Frequency (UHF band)	Global reader: 902–928 MHz (also supports countries that use a part of this band), 865–868 MHz U.S. (only) reader: 902–928 MHz
Transmit power output	0 dBm to +33.0 dBm: PoE+, 24V External DC, Universal 24V DC Power Supply 0 dBm to +31.5 dBm: PoE, 12V External DC (4-port-models only), 24V External DC, Universal 24V DC Power Supply

Connectivity

Communications	10/100 Base-T 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 temperature	-4°F to 131°F / -20°C to 55°C
Storage temperature	-40°F to 158°F / -40°C 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, SFPT, SSH, HTTP, FTP, SNMP, NTP
Network stack	IPv4, IPv6
Security	Transport Layer Security Ver 1.2, FIPS-140
API Support	Host applications: .NET, C, Java EMDK Embedded applications: C, 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

Environmental compliance

Environment	RoHS Directive 2011/65/EU; Amendment 2015/863 REACH SVHC 1907/2006 For a complete list of product and materials compliance, please visit zebra.com/environment
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Zebra FX7500 RFID Reader specifications

RFID characteristics

Max receive sensitivity	-82 dBm
Air protocols	EPCglobal UHF Class 1 Gen2, ISO 18000-6C
Frequency (UHF band)	Global reader: 902–928 MHz (maximum, supports countries that use a part of this band), 865–868 MHz U.S. (only) reader: 902–928 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)

Connectivity

Communications	10/100 Base-T Ethernet (RJ45) with 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	FX7500-2: 2 mono-static ports (Reverse Polarity TNC); FX7500-4: 4 mono-static ports (Reverse Polarity TNC)

Environmental

Operating temperature	-4°F to 131°F / -20°C to 55°C
Storage temperature	-40°F to 158°F / -40°C to 70°C
Humidity	5–95% non-condensing
Shock/vibration	MIL-STD-810G

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, NTP
Network stack	IPv4 and IPv6
Security	Transport Layer Security Ver 1.2, FIPS-140
API support	Host applications: .NET, C, Java EMDK Embedded applications: C, 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
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Other	ROHS, WEEE

Recommended services

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



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