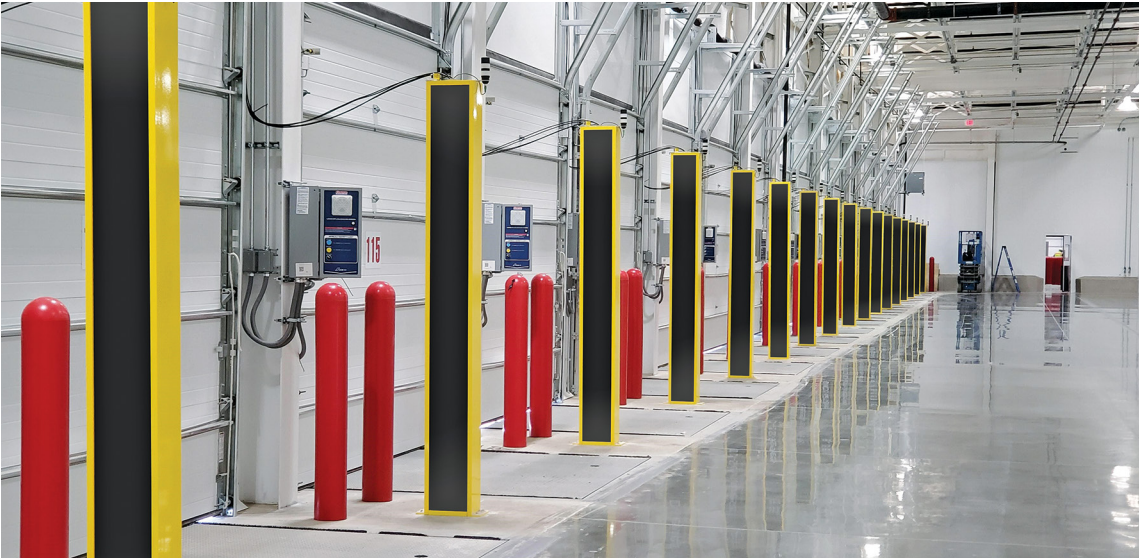


# Zebra Integrated RFID Portals



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 a fully assembled product, 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 highly accurate read rates through the portal.
- **Purpose-built engineering.** Zebra Integrated RFID Portals are specifically designed for the applications they support, built to withstand transportation and logistics, manufacturing, and healthcare environments.

# Zebra Integrated RFID Portal Specifications



## Zebra Transition RFID Portal (D800/D500)

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

<b>Dimensions</b>	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) D500: 62"H x 15"L x 4"W (158 x 38 x 10 cm)
<b>Weight</b>	D800 (V4): 45 lbs (21 kg) D800 (V5): 71 lbs (33 kg) D500: 30 lbs (14 kg)
<b>Operating temperature</b>	-4°F to +131°F (-20°C to +55°C)
<b>Storage temperature</b>	-40°F to +158°F (-40°C to +70°C)
<b>RFID reader</b>	Zebra FX9600 RFID Reader
<b>RFID antenna</b>	Multi-Linear Wave® Antenna



## Zebra Wall-Mount RFID Portal (D100)

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

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



## Zebra Fixed RFID Tunnel (T400)

Built especially for inline conveyor operations, these units automatically read tagged assets as they move along the line and through the tunnel, improving conveyor throughput and workflow accuracy.

<b>Dimensions</b>	Custom built to fit existing operation Standard outer: 42"L x 35"W x 64"H (107 x 89 x 163 cm) Standard inner: 42"L x 29"W x 30"H (107 x 74 x 76 cm)
<b>Weight</b>	200 lbs (91 kg)
<b>Operating temperature</b>	-4°F to +131°F (-20°C to +55°C)
<b>Storage temperature</b>	-40°F to +158°F (-40°C to +70°C)
<b>RFID reader</b>	Zebra FX9600 RFID Reader
<b>RFID antenna</b>	Multi-Linear Wave Antenna



## Zebra Integrated RFID Table (M600)

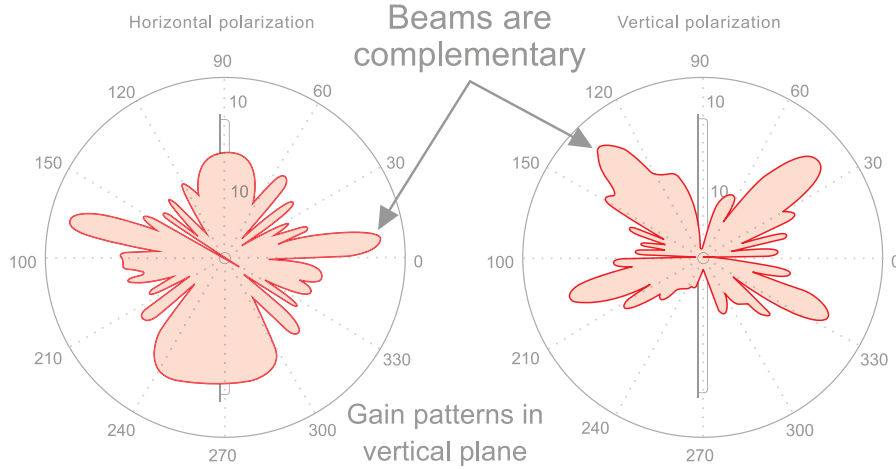
RFID antennas mounted underneath the table are specially configured to read items placed on the surface in any orientation.

<b>Dimensions</b>	48.5"L x 31.5"W x 38"H (123 x 80 x 97 cm)
<b>Weight</b>	100 lbs (46 kg)
<b>Operating temperature</b>	-4°F to +131°F (-20°C to +55°C)
<b>Storage temperature</b>	-40°F to +158°F (-40°C to +70°C)
<b>RFID reader</b>	Zebra FX9600 RFID Reader
<b>RFID antenna</b>	Multi-Linear Wave Antenna

**Note:** Some models have multiple SKUs based on configuration. Additional accessories and options include mechanical hardware, stack lights and battery chargers. Please contact Zebra for additional details.

# Multi-Linear Wave Antenna Specifications

## Polarization Beam Diversity



<b>Polarization</b>	Multi-linear
<b>Impedance</b>	50 ohms
<b>Gain</b>	3.0 dBi
<b>Maximum input power</b>	10 watts

<b>H-plane beam width</b>	180 degrees
<b>E-plane beam width</b>	180 degrees
<b>F-type coaxial cables</b>	Included
<b>Cable spec</b>	RPTNC male to RPTNC male

# Zebra FX9600 RFID Reader Specifications

RFID CHARACTERISTICS		HARDWARE, OS AND FIRMWARE MANAGEMENT	
<b>Max receive sensitivity</b>	-86 dBm monostatic	<b>Processor</b>	Texas Instruments AM3505 (600 MHz)
<b>Air protocols</b>	ISO 18000-63 (EPC Class 1 Gen 2 V2)	<b>Memory</b>	Flash 512 MB; DRAM 256 MB
<b>Frequency (UHF band)</b>	<b>Global reader:</b> 902–928 MHz (also supports countries that use a part of this band), 865–868 MHz <b>U.S. (only) reader:</b> 902–928 MHz	<b>Operating system</b>	Linux
<b>Transmit power output</b>	<b>0 dBm to +33.0 dBm:</b> PoE+, 24V External DC, Universal 24 VDC Power Supply <b>0 dBm to +31.5 dBm:</b> PoE, 12V External DC (4-port-models only), 24V External DC, Universal 24 VDC Power Supply	<b>Firmware upgrade</b>	Web-based and remote firmware upgrade capabilities
<b>CONNECTIVITY</b>		<b>Management protocols</b>	RM 1.0.1 (with XML over HTTP/HTTPS and SNMP binding); RDMP
<b>Communications</b>	10/100Base-T Ethernet (RJ45); USB Host & Client (Type A & B); Serial (DB9)	<b>Network services</b>	DHCP, HTTPS, FTPS, SFTP, SSH, HTTP, FTP, SNMP and NTP
<b>General purpose I/O</b>	4 inputs, 4 outputs, optically isolated (Terminal Block)	<b>Network stack</b>	IPv4 and IPv6
<b>Power supply</b>	PoE (802.3af) PoE+ (802.3at) +24V DC (UL Approved)	<b>Security</b>	Transport Layer Security Ver 1.2, FIPS-140
<b>Antenna ports</b>	<b>FX9600-4:</b> 4 monostatic ports (Reverse Polarity TNC) <b>FX9600-8:</b> 8 monostatic ports (Reverse Polarity TNC)	<b>API support</b>	<b>Host applications:</b> .NET, C and Java EMDK <b>Embedded applications:</b> C and Java SDK
<b>ENVIRONMENTAL</b>		<b>REGULATORY COMPLIANCE</b>	
<b>Operating temperature</b>	-4° to +131°F (-20° to +55°C)	<b>Safety</b>	UL 60950-01, UL 2043, IEC 60950-1, EN 60950-1
<b>Storage temperature</b>	-40° to +158°F (-40° to +70°C)	<b>RF/EMI/EMC</b>	FCC Part 15, RSS 210, EN 302 208, ICES-003 Class B, EN 301 489-1/3 for Malaysia: 919–923 MHz
<b>Humidity</b>	5–95% non-condensing	<b>SAR/MPE</b>	FCC 47CFR2:OET Bulletin 65; EN 50364
<b>Sealing</b>	IP53	<b>Other</b>	ROHS, WEEE
<b>ENVIRONMENTAL COMPLIANCE</b>		<b>ENVIRONMENTAL COMPLIANCE</b>	
<b>Environment</b>		<ul style="list-style-type: none"> <li>• RoHS Directive 2011/65/EU; Amendment 2015/863</li> <li>• REACH SVHC 1907/2006</li> </ul> For a complete list of product and materials compliance, please visit <a href="http://www.zebra.com/environment">www.zebra.com/environment</a>	

# Zebra FX7500 RFID Reader Specifications

RFID CHARACTERISTICS		CONNECTIVITY	
<b>Air protocols</b>	EPCglobal UHF Class 1 Gen2, ISO 18000-6C	<b>Communications</b>	10/100Base-T Ethernet (RJ45) w/ PoE support; USB Client (USB Type B), USB Host Port (Type A)
<b>Frequency (UHF band)</b>	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	<b>General purpose I/O</b>	2 inputs, 3 outputs, optically isolated (Terminal Block)
<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>Power supply</b>	PoE, PoE+ or +24V DC (UL Approved) 12V–48VDC operation can be supported
<b>Max. receive sensitivity</b>	-82 dBm	<b>Antenna ports</b>	FX 7500-2: 2 mono-static ports (Reverse Polarity TNC) FX 7500-4: 4 mono-static ports (Reverse Polarity TNC)
ENVIRONMENTAL		HARDWARE, OS AND FIRMWARE MANAGEMENT	
<b>Operating temperature</b>	-4° to +131°F (-20° to +55°C)	<b>Processor</b>	Texas Instruments AM3505 (600 MHz)
<b>Storage temperature</b>	-40° to +158°F (-40° to +70°C)	<b>Memory</b>	Flash 512 MB; DRAM 256 MB
<b>Humidity</b>	5–95% non-condensing	<b>Operating system</b>	Linux
<b>Shock/vibration</b>	MIL-STD-810G	<b>Firmware upgrade</b>	Web-based and remote firmware upgrade capabilities
REGULATORY COMPLIANCE		<b>Management protocols</b>	RM 1.0.1 (with XML over HTTP/HTTPS and SNMP binding); RDMP
<b>Safety</b>	UL 60950-01, UL 2043, IEC 60950-1, EN 60950-1	<b>Network services</b>	DHCP, HTTPS, FTPS, SFPT, SSH, HTTP, FTP, SNMP and NTP
<b>RF/EMI/EMC</b>	FCC Part 15, RSS 210, EN 302 208, ICES-003 Class B, EN 301 489-1/3	<b>Network stack</b>	IPv4 and IPv6
<b>SAR/MPE</b>	FCC 47CFR2: OET Bulletin 65; EN 50364	<b>Security</b>	Transport Layer Security Ver 1.2, FIPS-140
<b>Other</b>	ROHS, WEEE	<b>API support</b>	<b>Host applications:</b> .NET, C and Java EMDK <b>Embedded applications:</b> C and Java SDK
RECOMMENDED SERVICES			
<b>Support services</b>	Service from the Start Advance Exchange On-Site System Support		
<b>Advanced services</b>	RFID Design and Deployment Services		

For warranty, services and support offerings, please contact Zebra Technologies.

Specifications are subject to change without notice.

For more information, visit [www.zebra.com/rfid-integrated-portals](http://www.zebra.com/rfid-integrated-portals)

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