



ST5500 Transition RFID Reader

Track inventory location and direction

Whether you are a retailer, distributor or manufacturer, you need to know more than the presence of tagged items to harness the power of inventory visibility; you also need to know which direction items are traveling. While standard RFID readers detect presence only, Zebra's pre-configured, ST5500 transition RFID reader tracks items on the move, providing presence and enabling direction.



A New Layer of Business Intelligence

Zebra's ST5500 transition RFID reader tracks direction to give you an additional layer of business intelligence, so you can better manage inventory and prevent lost sales, stockouts, theft, and unplanned downtime on the manufacturing plant floor. Plus, with the data over time, you can identify process gaps and improve inventory workflows. The ST5500 provides you with which way a tag is moving through the portal so you can automatically remove it from stock when it goes from the stock room to the sales floor.

Designed for Challenging Areas

Zebra's ST5500 transition RFID reader works in virtually any area in your facility—from your main building entry and exit areas, including the receiving and loading docks, to interior transition points such as the warehouse and plant floor in a manufacturing plant, it is designed to meet specific needs in challenging areas, such as backrooms and aisles where metal, fluorescent lights and more can create interference. This product is also at home in aisles and will-call areas that require very tight read ranges.

Ready-to-Use, Easy Deployment

Everything you need is already pre-configured and ready to go. Simply suspend from the ceiling or mount on a wall for fast and easy deployment. There's no need to add any additional components since this transition reader includes both the reader and antennas into one housing. Take your competitive advantage to the next level and gain a greater level of inventory intelligence with Zebra's ST5500 transition RFID reader.

Track inventory movement in real time for a real competitive advantage.

For more information, please visit www.zebra.com/rfidreaders

Specifications

Physical Characteristics	
Dimensions	47.0 x 22.0 x 9.0 inches (1194 x 559 x 229 mm)
Weight	23 lbs./10.4 kg
Environmental	
Operating Temp.	-4°F to +131°F/-20°C to +55°C
Storage Temp.	-40°F to +158°F/-40°C to +70°C
Humidity	95% RH non-condensing
ESD	± 15 kV air discharge; ± 8 kV direct dishcharge; ± 8 kV indirect dishcharge
Power Requirements	
Input Power	18W max (37-55 VDC POE)
Connectivity	
Communications	10/100 BaseT Ethernet (RJ45) w/ 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	FX 7500-2: 2 monostatic ports (Reverse Polarity TNC) FX 7500-4: 4 monostatic ports (Reverse Polarity TNC)
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 and NTP
Network Stack	IPv4 and IPv6
Security	Transport Layer Security Ver 1.2, FIPS-140
Air Protocols	EPCglobal UHF Class 1 Gen2, ISO 18000-6C

Markets and Applications

Warehouse and Distribution

- Shipping and receiving
- Inventory

Retail

- Front and back room
- Shipping and receiving

Manufacturing

- Shipping and receiving
- Inventory

Frequency (UHF Band)	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
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)
Max. Receive Sensitivity	-82 dBm
IP addressing	Static and Dynamic
Host Interface Protocol	LLRP
API Support	Host Applications—.NET, C and Java EMDK; Embedded Applications—C and Java SDK

Warranty

The ST5500 transition RFID reader is 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.

