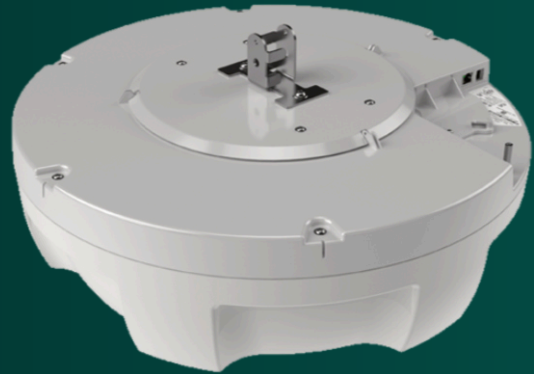


UHF | RAIN - RTLS Reader **Zebra - ATR7000**

- RAIN RFID (UHF EPC Class1 Gen2, ISO 18000-63) compliant
- Overhead Portal Reader
- Ethernet with PoE+
- Up to 15 m reading range
- Real Time Location via RFID



UHF | RAIN - RTLS Reader All-in-one enterprise mobile

Your business depends on accurate, up-to-the-minute data. The Zebra ATR7000 RTLS Reader offers unprecedented visibility into the location of items bearing RFID tags, updated continuously in real time. Digital beam steering and wide-angle, phased-array antennas provide unmatched accuracy and coverage.

The ATR7000 gives you complete real-time visibility into the location of all of your tagged assets - regardless of whether they are stationary or on a forklift moving at peak speed. Since you can also see the direction of the movement, you get an extra layer of intelligence - for example, you can see whether items are moving into or out of a truck on the loading dock. And this powerful industrial reader delivers up to 10 times the throughput of competitive readers - so no matter how many assets you need to track, with the ATR7000, you can always track them all in real time.

When it comes to cost, whether you choose to deploy the ATR7000 as a Real-Time Locationing System or a standard fixed reader at dock doors or other transition points, the ATR7000 can't be beat. Its wide angle antennas cover up to double the area of competitive readers, effectively cutting the number and cost of required readers for your RTLS system in half. And you get the same cost-savings when you deploy the ATR7000 as a fixed reader at your dock doors, since its advanced features enable a single ATR7000 to cover two dock doors

Common Applications

- Area monitoring
- Overhead portal
- Item location, transition and direction
- Industrial automation
- Asset Tracking



TECHNICAL SPECIFICATIONS

Physical Characteristics

Dimension	Diameter 482.6 mm Height 161 mm
Weight	5.03 kg
Visual Status Indicator	Multi-Color LED (Power, Status)

RFID Characteristics

Antenna	Steerable phase-array
Air Interface Protocol	EPCglobal UHF RFID Class 1 Gen2/ISO 18000-63
Max Receive Sensitivity	-88 dBm
Beam Scanning Range	Azimuth 0-360°, Elevation 0-60°
Frequency (UHF Band)	902-928 MHz (US and Canada) 865-868 MHz (EMEA and India)

Connectivity

Network Connectivity	10/100 BaseT Ethernet (RJ45)
General Purpose I/O	Reserved, two (2) inputs, three (3) outputs (Opto-isolated)

Environmental Characteristics

Operating Temp	-20° C to +55° C
Storage Temp	-40° C to +70° C
Humidity	5-95% non-condensing
Sealing	IEC IP51
ESD	± 15 KVdc air discharge; ± 8 KVdc direct/indirect discharge
Vibration	MIL STD 810F, 0.04g2/Hz, Random (20 Hz to 2 kHz), 6G rms.

Power Sources

POE+ (802.3at) or AC-DC power supply rated for +24Vdc, 3.25 A

Power Consumption

Maximum Power	24 W
Idle Power	<4 W

Management Interface

Operating System	Linux
Standard API Support	Host Application .Net, C and Java EMDK
Management Protocols	RM1.01 (with XML over HTTP/HTTPS and SNMP binding); RDMP specification in ISO 24791-3
Firmware Upgrade	Web-based and remote firmware upgrade capabilities
Network Services	DHCP, HTTPS, FTPS, SFTP, SCP, SSH, HTTP, FTP, SNMP and NTP
Network Stack	IPv4, IPv6
Security	Transport Layer Security Ver. 1.2, FIPS 140-2 Level 1
Host Interface Protocol	LLRP v1.0.1

Mounting

Direct attach (pole mount) or VESA 75 or VESA 100

Configuration and Location Analytics Software (CLAS)

RTLS Config	Server software responsible for Initialization, management and monitoring
Location Analytics	Estimates bearings of RFID tags using advanced parallel processing techniques, computes (triangulates) location estimates from tags observed from one or more readers, and publishes tag ID and location on a KAFKA interface.
Location Accuracy	2 ft. / 0.6 m, R50 4 ft. / 1.2 m, R95

Regulatory Compliance

Safety	UL 60950-01, IEC 62368-1, 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
Other	ROHS, WEEE

Part No. / Model

Zebra - ATR7700