TronRFID TR1010 RFID Antenna

The TronRFID TR1010 10in x 10in RFID Antenna is a right-hand circularly polarized RFID antenna that connects to UHF RFID readers to read and write to UHF RFID RAIN tags and labels. This antenna achieves high performance via high gain, low VSWR and low axial ratio across the entire frequency band (865MHz-930MHz)

The antenna is housed in high strength polycarbonate radome with thick aluminum backplate for strong durability in hard outdoor environments. The UHF RFID antenna is available in flush and VESA mount options.

The TronRFID TR1010 RFID Antenna pairs well with TronRFID Antenna Cables to connect with various UHF RFID readers.

Antenna Configurations

Product	Mounting	Part Number	EPC Gen2 Band
TronRFID TR1010	Flush Mount	TR1010-FM	865MHz-930MHz
	VESA Mount	TR1010-VM	

Physical Specifications:

Dimensions (L x W x H)	253mm x 253mm x 23mm 9.96" x 9.96" x 0.86"
Weight	0.72Kg 1.6lbs
Mounting type	Flush or VESA mount
Connector type	SMA female side connector
Radome	High Strength Polycarbonate (White)
Back plate	Polished aluminum
Mount Style	Flush or 100 VESA Mount

Environmental Specifications & Test

Environmental rating	IP68
Operating temperature	-22°C to +55°C | -4°F to +149°F
Plenum rating	Designed to meet specification (Certificate pending)
IECEx and ATEX certification	Designed to meet specification (Certificate pending)

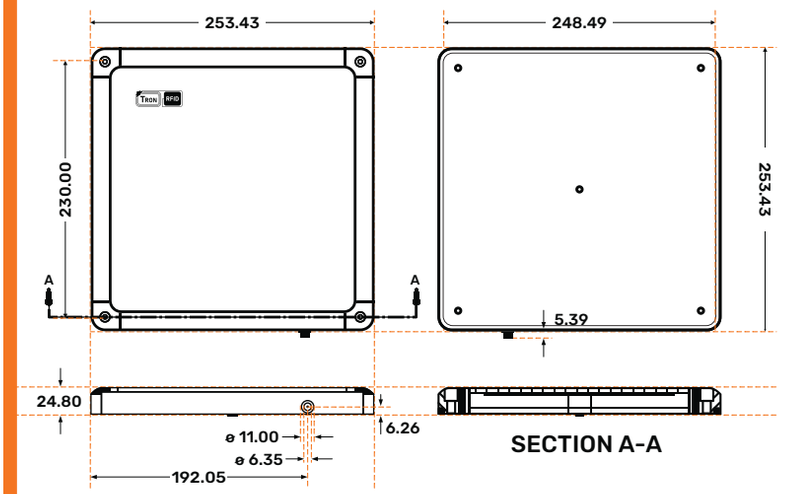
Electrical Specifications

Frequency range	865MHz-930MHz
Polarization	RHCP (Right Hand Circular Polarization)
Far field gain	9 dBic
VSWR	1.3 : 1

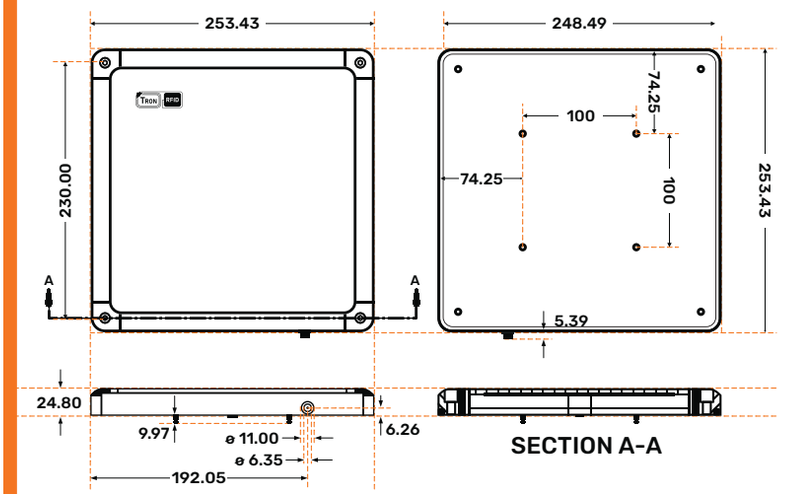
Far field 3-dB beam width	70°C
Axial ratio	2dB Typical
Front to back ratio	25dB
Input impedance	50 Ohms
Anti-static protection	Yes, DC grounded
Maximum input power	10 W

Physical Mounting Information

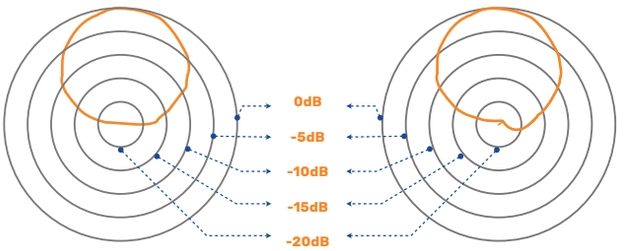
Flush Mount



VESA Mount



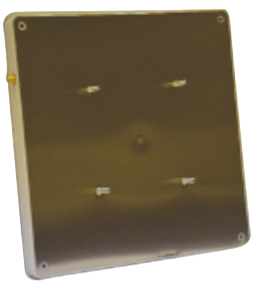
EM-Field Characterization



Phi Cut Radiation Pattern
Normalized 5dB/div

Theta Cut Radiation Pattern
Normalized, 5 dB/div

The VESA mount version has four M4 studs 100mm spaced apart. It can be mounted on a standard 100mm VESA mount bracket. The mounting nuts are provided with the antenna.



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NEED HELP WITH YOUR SOLUTION OR MORE DETAILS? CONTACT US!

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