



TronRFID TR0505 RFID Antenna

The TronRFID TR0505 5.9" x 5.9" 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 with options for both the FCC and ETSI frequency bands

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 with a flush mount option.

The TronRFID TR0505 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 TR0505	Flush Mount	TR0505-FCC	865MHz-868MHz
	Flush Mount	TR0505-ETSI	902MHz-928MHz

Physical Specifications:

Dimensions (L x W x H)	150mm x 150mm x 15mm (5.9" x 5.9" x 0.59")
Weight	0.55Kg 1.2lbs
Connector type	SMA female side connector
Radome	High Strength Polycarbonate (White)
Back plate	Polished aluminum
Mount Style	Flush (VESA Mounted with accessory)

Environmental Specifications & Test

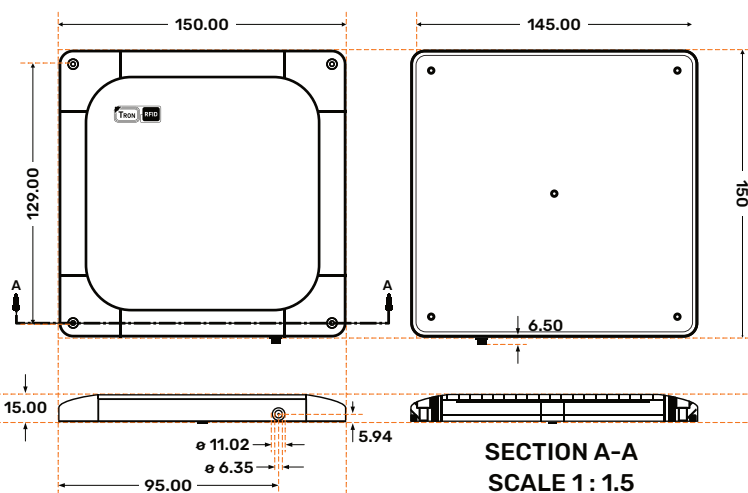
Environmental rating	IP68
Operating temperature	-22°C to +55°C -4°F to +149°F
Plenum rating	Designed to meet specification (Certificate pending)
IECEx and ATEX certification	Designed to meet specification (Certificate pending)

Electrical Specifications

Specifications	(ETSI Version)	(FCC Version)
Frequency range	865MHz - 868MHz	902MHz - 928MHz
Polarization	RHCP (Right Hand Circular Polarization)	
Far field gain	5.5 dBic	
VSWR	1.3 : 1	
Far field 3-dB beam width	95°	
Axial ratio	2dB Typical	
Front to back ratio	15dB	
Input impedance	50 Ohms	
Anti-static protection	Yes, DC grounded	
Maximum input power	10 W	

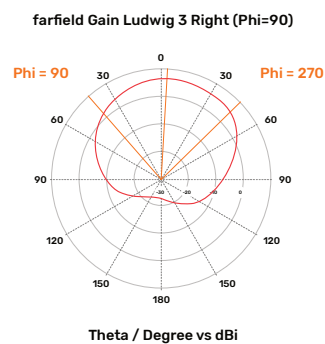
Physical Mounting Information

The Perfect Antenna is available in Flush mounting style on a wall, ceiling, tabletop or any flat surface. It can also be be mounted on a VESA bracket using an accessory.

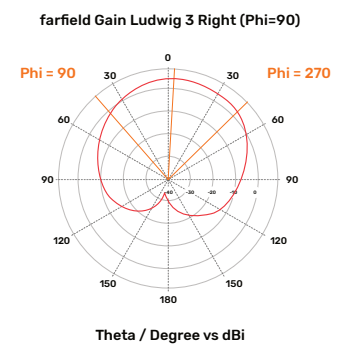


EM-Field Characterization

Radiation Pattern (Farfield - 866MHz)



Radiation Pattern (Farfield - 915MHz)



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