

# RFID UHF Antenna

IDT.ANT.RHCP.9.1



UHF RFID



IP 67



Rugged Design



High Gain



Easy Installation

The IDT.ANT.RHCP.9.1 is a high-gain UHF RAIN RFID antenna engineered for reliable performance in demanding industrial and outdoor environments. Built with IP67-rated industrial-grade housing, the antenna is both waterproof and dust-tight, allowing deployment in extreme weather conditions without degradation in performance. It adheres to MIL-STD vibration and shock resistance standards, making it ideal for use in high-vibration applications such as defense, aerospace, and heavy-duty transportation systems.

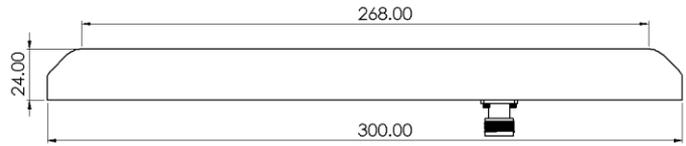
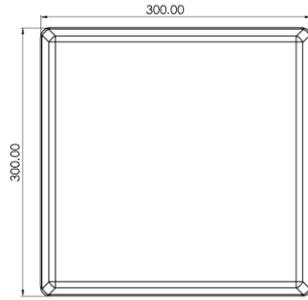
## PHYSICAL CHARACTERISTICS

<b>Dimensions</b>	300(L) X 300(W) X 24(H) mm
<b>Weight</b>	1.20 Kg
<b>Connector</b>	1 X Type N Female
<b>Connector Position</b>	Back
<b>Mounting</b>	VESA Mount
<b>Radome Material</b>	ABS / PC
<b>Base Plate Material</b>	Aluminium with Chemical Conversion Coating

## ENVIRONMENTAL SPECIFICATION

<b>Temperature</b>	-30°C to +70°C (Operating); -40°C to +80°C (Storage)
<b>Humidity</b>	MIL-Std 810G, Method 507.5, Procedure II
<b>Vibration</b>	IEC-68-2-6 (10 to 150 Hz, 05g, 1 Hour in each of two axle)
<b>Safety</b>	RoHS
<b>Sealing</b>	IP 67

## DIMENSION



## ELECTRICAL CHARACTERISTICS

**Operating Frequency** 865~868MHz, 902~928MHz (frequency customization optional);

**Read Range** Up to 15m

**Polarizations** RHCP (Right Hand Circular Polarization)

**Gain** 8.5 dBi(c) (min)

**3dB Elevation Beamwidth** 65° (typ)

**3dB Azimuth Beamwidth** 65° (typ)

**Input Impedance** 50 ohms

**Front to Back Ratio** -18 dB (max), -20 dB (typ)

**Anti Static Protection** DC Ground

**Max Power** 10 W

**Axial Ratio** 1 dB Typical

**VSWR** 1.30 (max)

## ORDER INFORMATION

**Part No.** IDT.ANT.RHCP.9.1.ETSI - 865-868 MHz

## ACCESSORIES



Pole Mount Bracket



RF Cable 5-6m



Vesa Mount 100mm

## APPLICATION AREA



Parking Lot Management



Electronic Toll Management



Warehouse Management



Employee/  
Student Tracking



Vehicle Access Management



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The product specifications and descriptions listed in the specification sheet are subject to change anytime without notice.

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