

# UHF RFID DIRECTIONAL ANTENNA

IDT 13 dBi



UHF RFID



IP 67



Rugged Design



High Gain



Easy Installation

The IDT 13 dBi Linearly Polarized UHF RFID Antenna is designed to provide superior long-range performance for vehicle detection and identification. Linear polarization ensures reliable communication with weak transponders, enabling accurate tag reads at greater distances. Its directional beam and high gain make it an ideal solution for MLFF tolling systems, where precise lane coverage, fast vehicle movement, and dependable outdoor operation are critical.

## PHYSICAL PARAMETER

<b>Dimension</b>	450(L)*450(W)*55(H)mm
<b>Weight</b>	3 Kg max
<b>Antenna Connector</b>	N (Female) Bulk Head
<b>Color</b>	Light Grey / White
<b>Reflector Material</b>	Aluminium
<b>Housing Material</b>	ABS

## RF PERFORMANCE

<b>Working Frequency</b>	ETSI 865–868 MHz / FCC 902–928 MHz
<b>Air Interface</b>	Compliant
<b>Antenna Gain</b>	12.5 dBic (12 dBic min / 13 dBic max)
<b>Lightning Protection</b>	Direct Ground
<b>Beamwidth</b>	37–39°
<b>Front-to-Back Ratio</b>	-15 dB
<b>Impedance</b>	50 Ω

**Polarization** Linear Vertical or Horizontal

**VSWR** < 1.4 : 1

## ENVIRONMENTAL SPECIFICATION

**Operating Temperature** -40° C to +70° C

**Storage Temperature** -40° C to +85° C

**Humidity** 95%

**Sealing** IP 67

## ORDER INFORMATION

**Part Number** IDT.ANT.UHF.FF.13.ETSI

IDT.ANT.UHF.FF.13.FCC

## ACCESSORIES



Pole Mount Bracket



RF Cable 5-6m



Vesa Mount 100mm

## APPLICATION AREA



Parking Lot Management



Electronic Toll Management



Warehouse Management



Student Tracking



Vehicle Access



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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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