

UHF RFID CIRCULARLY POLARIZED ANTENNA

IDT 11.5 dBi



UHF RFID



IP 67



Rugged Design



High Gain



Easy Installation

The IDT 11.5 dBi Circularly Polarized UHF RFID Antenna offers high gain with an exceptionally low axial ratio, enabling reliable tag reading in all transponder orientations, even at long distances. Its homogeneous reading field ensures consistent and accurate detection. Designed for selective long-range applications, it features a focused 30° horizontal beam for precise lane and gate-level vehicle identification. The antenna's compact, ruggedized design makes it suitable for harsh outdoor environments as well as industrial shop-floor installations, where controlled read zones and reliability are critical.

PHYSICAL PARAMETER

Dimension	650 (L) × 320 (W) × 32 (H) mm
Orientation	Rectangular
Weight	3 kg max
Antenna Connector	N (Female) Bulkhead
Color	Light Grey / White
Reflector Material	Aluminium
Housing Material	ABS / PC

RF PERFORMANCE

Working Frequency	ETSI 865–868 MHz / FCC 902–928 MHz
Air Interface	EPC Gen 2 Compliant
Antenna Gain	11.5 dBic (11 dBic min / 12 dBic max)
Lightning Protection	Direct Ground
Azimuth 3 dB Beam Width	30°
Elevation 3 dB Beam Width	62°
Axial Ratio 3 dB Beam Width	3 dB max

Front-to-Back Ratio	-20 dB typ
Impedance	50 Ω
Polarization	RHCP
VSWR	< 1.5 : 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.11.5.ETSI
	IDT.ANT.UHF.FF.11.5.FCC

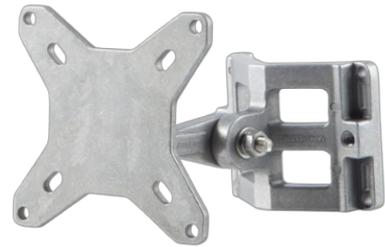
ACCESSORIES



Pole Mount Bracket



RF Cable 5-6m



Vesa Mount 100mm

APPLICATION AREA



Parking Lot Management



Electronic Toll Management



Warehouse Management



Student Tracking



Vehicle Access



ID TECH SOLUTIONS PVT. LTD.

610, Udyog Vihar Phase-5, Gurgaon, Haryana - 122016, INDIA | T. : +91-124 - 4255530 (6 Lines)

E.: info@idsolutionsindia.com | W: www.idsolutionsindia.com



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

©2025 ID Tech Solutions Pvt. Ltd. All Rights Reserved.