

UHF RFID Antenna

12dBi



1. Product Overview

The UHF RFID Antenna 12dBi features high sensitivity and outstanding reading performance, supporting long-distance, high-volume tag reading and writing with precision and speed, as well as high security. It also has an IP67 high protection rating, excellent waterproof performance, and easy installation, making it suitable for a wide range of applications including smart transportation, logistics, warehouse management, event management, production line management, smart retail, national defense security, power asset management, financial management, medical equipment management.

2. Product Parameters

2.1 Physical Characteristics

SKU	AZ-12dBi
Antenna Size	445×445×30mm(L×W×H)
Antenna Weight	2.66kg
Antenna Color	Grayish White
Surface Material	ABS
Mounting Bracket	Pole-mounted: Ant-MOT-RC12-455/455-P
Radiation Plate Material	Aluminium
Interface Form	N female
Cable	Ant-CA-SMA.M/N.M-LMR2-1M Ant-CA-SMA.M/N.M-LMR2-5M Ant-CA-SMA.M/N.M-LMR2-15M Ant-CA-SMA.M/N.M-LMR4-5M Ant-CA-SMA.M/N.M-LMR4-15M
IP Rating	IP67



Key Features

Operating Frequency
UHF 860-960MHz

International Standard
ISO/IEC 18000-6C

IP Rating
IP67

Gain Values
12dBi

Wind Resistance
60m/s

Installation Method
Pole-mounting

2.2 Technical Parameters

Operating Frequency	860-960MHz
International Standard	ISO/IEC 18000-6C
Horizontal Angle	40°
Vertical Angle	38°
Polarization	Circular Polarization(right-handed)
Standing Wave Ratio	≤1.3
Gain Values	12dBi
Antenna Front-to-back Ratio	≥17dB
Characteristic Impedance	50Ω
Maximum Input Power	20W

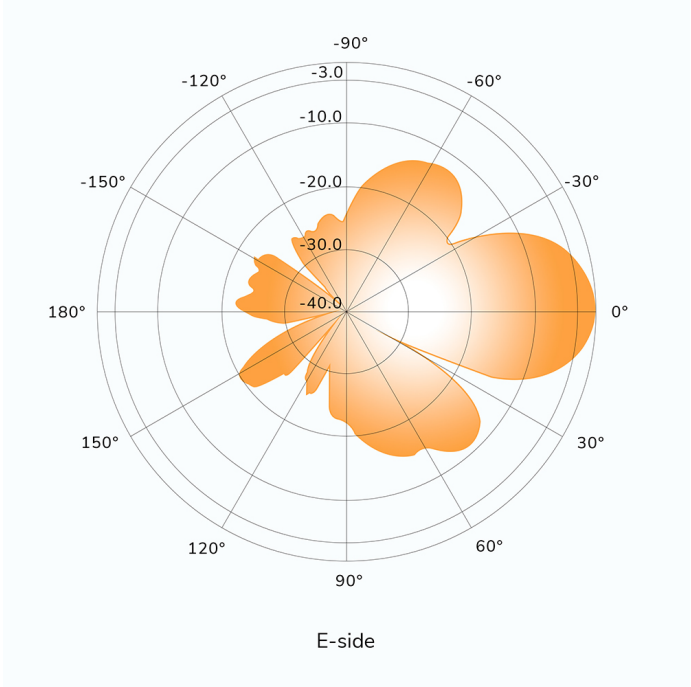
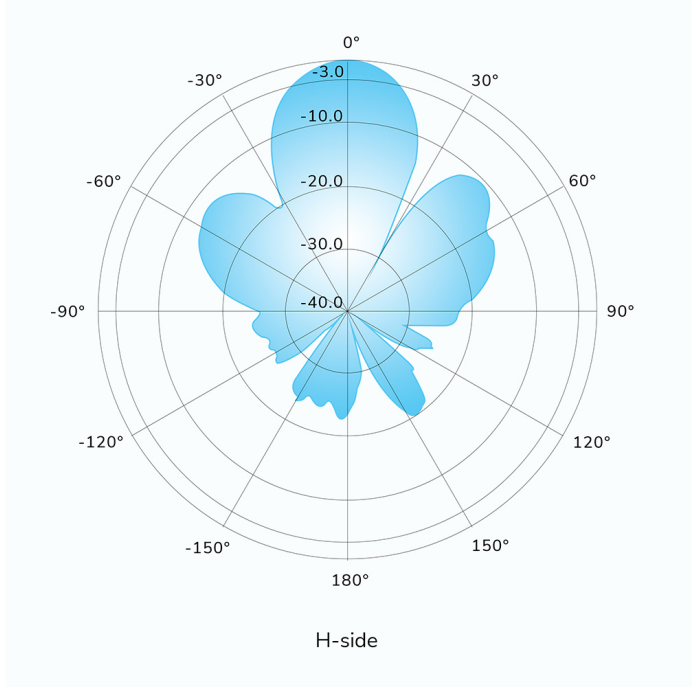
2.3 Additional Information

Operating Environment	-40°C to +60°C
Lightning Protection	DC grounding
Wind Resistance	60m/s

2.4 Installation

Installation Method	Pole-mountin
Diameter of Support Rod	φ30 - φ50mm

3. Reading Range of Antenna



<https://www.rfidtag.com>

E-mail : sales@rfidtag.com

Phone Number: +86-131-3958-0585

Singapore Office : 10 Science Park Road #03-17A, The Alpha, Singapore Science Park, Singapore 117684

Shenzhen Office : 33-408, Qianhai SZ-HK Fund Town, Nanshan, Shenzhen, China 518052

Shenzhen Factory : Q5, XingDao Industrial Park, LongGang, Bantian, Shenzhen, China 518129