

# UHF RFID Antenna

## 5dBi

AZ-5dBi



### Key Features

**Operating Frequency**  
UHF 860-960MHz

**International Standard**  
ISO/IEC 18000-6C

**IP Rating**  
IP67

**Gain Values**  
5dBi

**Wind Resistance**  
60m/s

**Installation Method**  
Pole-mounting or wall-mounted

### 1. Product Overview

The UHF RFID Antenna 5dBi features a high front-to-back ratio, narrow sidelobes, and a 5dBi gain, ensuring stable performance. It enables accurate and rapid multi-label reading and writing, with a moderate read-write distance. Despite its small size, lightweight, and low profile, it provides high data security, making installation convenient. With a high IP67 protection rating, this antenna is widely used in logistics and storage management, access control channel management, production line management, material management, etc.

### 2. Product Parameters

#### 2.1 Physical Characteristics

SKU	AZ-5dBi
Antenna Size	145×145×20mm(L×W×H)
Antenna Weight	0.73kg
Antenna Color	White
Surface Material	ABS
Mounting Bracket	Pole-mounted: Ant-MOT-RC05-145/145-P; Wall-mounted: Ant-MOT-RC05-145/145-W
Radiation Plate Material	Aluminium
Interface Form	SMA female
Cable	Ant-CA-SMA.M/SMA.M-LMR2-1M   Ant-CA-SMA.M/SMA.M-LMR2-5M Ant-CA-SMA.M/SMA.M-LMR2-15M   Ant-CA-SMA.M/SMA.M-LMR4-5M Ant-CA-SMA.M/SMA.M-LMR4-15M
IP Rating	IP67



2.2 Technical Parameters

Operating Frequency	860-960MHz
International Standard	ISO/IEC 18000-6C
Horizontal Angle	80°
Vertical Angle	70°
Polarization	Circular Polarization(right-handed)
Standing Wave Ratio	≤1.3
Gain Values	5dBi
Antenna Front-to-back Ratio	≥17dB
Characteristic Impedance	50Ω
Maximum Input Power	20W

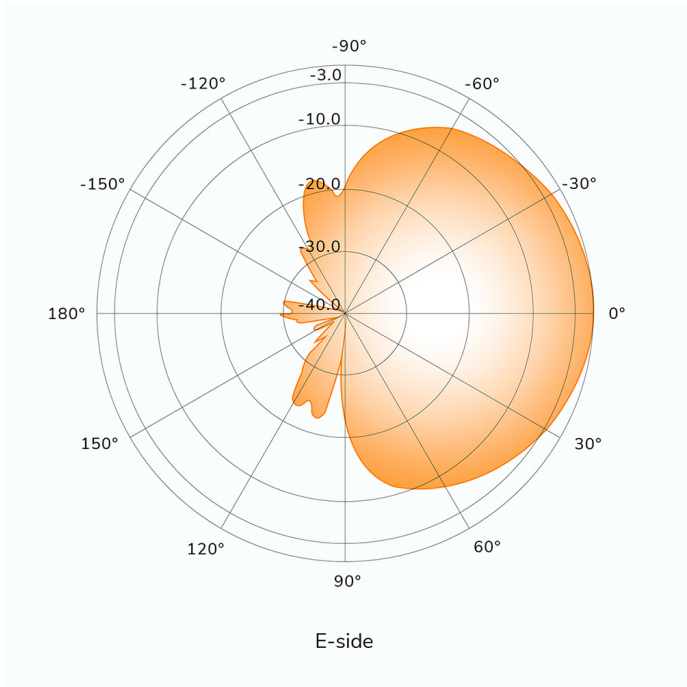
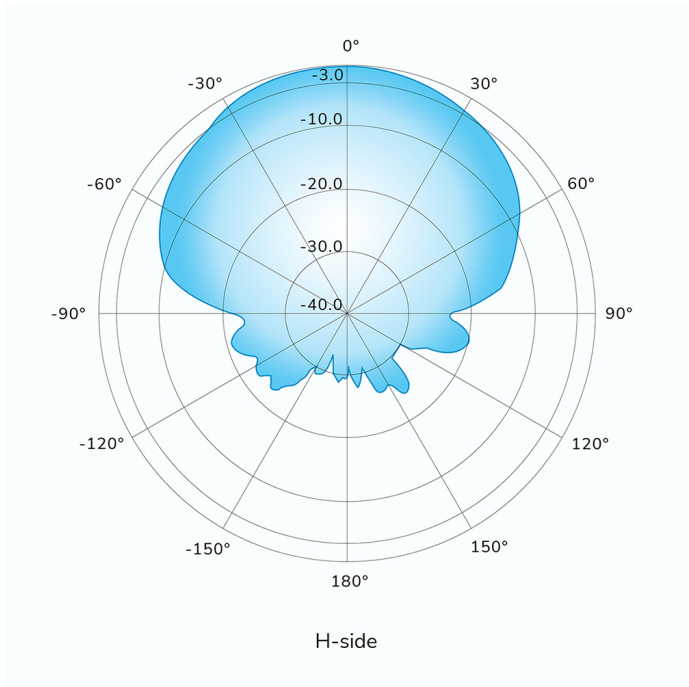
2.3 Additional Information

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

2.4 Installation

Installation Method	Pole-mounting or wall-mounted
Diameter of Support Rod	φ30 - φ50mm

3.    Reading Range of Antenna



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