

BRD- 17 Antenna

Product Model

BRD-17 Antenna

Product Features

Electrical Properties: Universal antenna suitable for UHF RFID applications, featuring high gain, low standing wave, ultra-wide bandwidth, etc.

Mechanical Properties: Beautiful appearance, designed with ultra-thin technology, excellent workmanship, and simple installation. It can be used with various types of UHF card readers to maximize the performance.

Main Applications

BRD-17 Proantenna can be easily used in UHF RFID applications such as access control, warehousing, logistics, and retail.

Performance

Frequency range: 902 MHz ~ 928 MHz

VSWR: $\leq 1.3:1$

Gain: 7.5 dBi

Beamwidth: $45^\circ \times 100^\circ$ (horizontal x vertical)

Polarization: Circular polarization

Relative humidity: 5% ~ 95%

Impedance: 50Ω

Mechanical indicators

Dimensions: 550 mm x 340 mm x 40 mm

Weight: 0.5 kg

Material: Engineering plastic, FR4

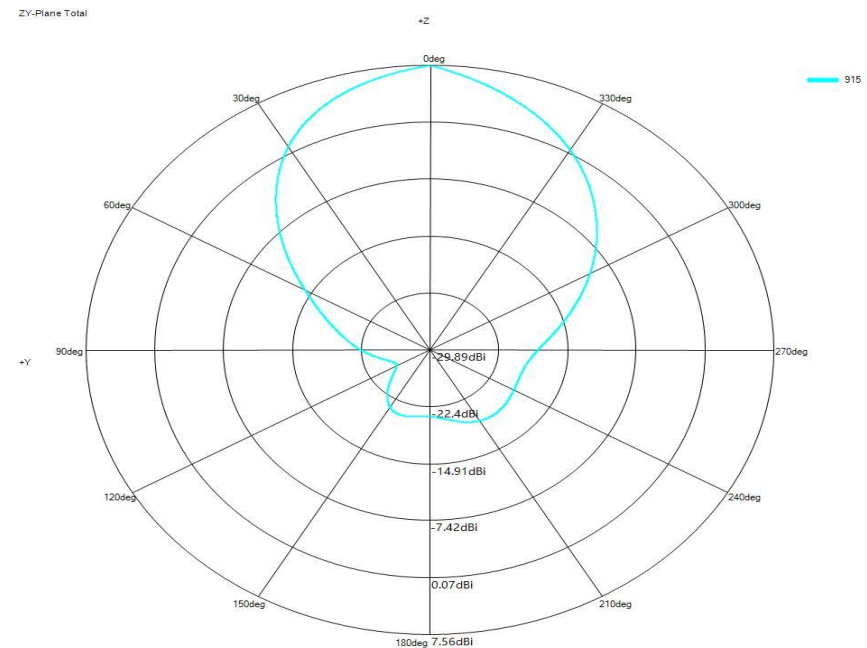
Color: Picture color

IP Class: IP64

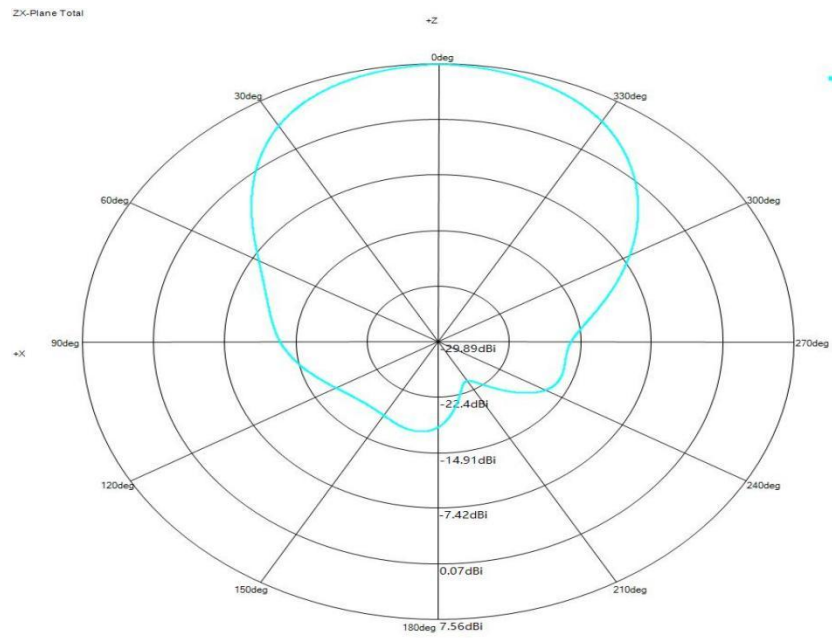
Working temperature: $-40^\circ\text{C} \sim +85^\circ\text{C}$

Storage temperature: $-40^\circ\text{C} \sim +85^\circ\text{C}$

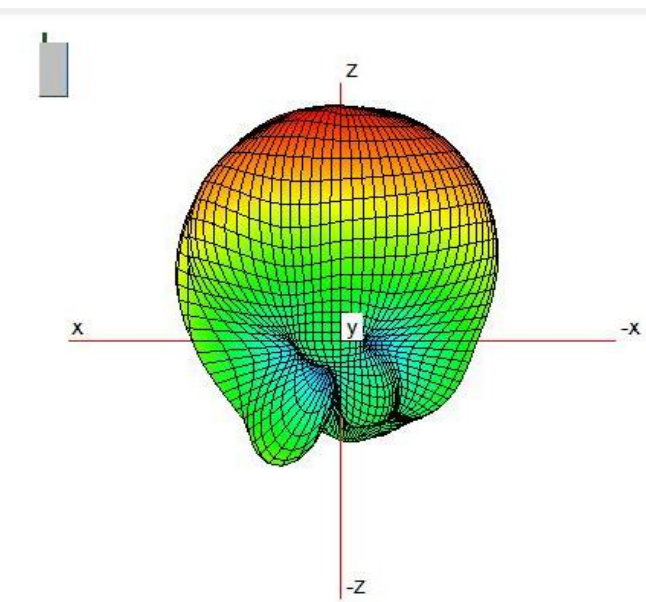
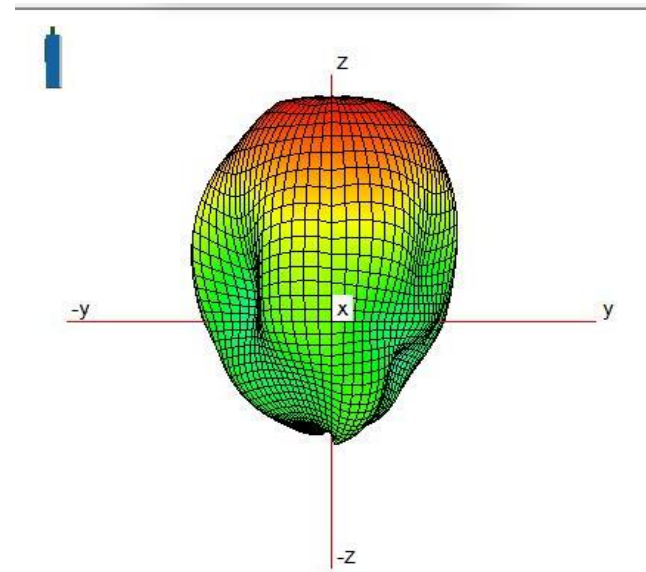
Antenna Pattern



Antenna 2D pattern 2 ($\phi=0^\circ$)



Antenna 2D pattern 1 ($\phi=90^\circ$)



Antenna 3D pattern

FAQ and Precautions

The BRD-17 antenna is a circularly polarized directional antenna. When using it, attention should be paid to adjusting the inclination of the antenna to obtain the best reading performance.

XC-AF12-ANT

Materials: Engineering plastic ASA, aluminum

Colour: White

Protection grade: IP65

Operating temperature: -40°C to $+70^{\circ}\text{C}$

Storage temperature: -40°C to $+70^{\circ}\text{C}$



Installation

The XC-AF12-A antenna can be installed on a steel frame structure or pillar through its own bracket or a bracket provided by the user, and connected to the reader via a coaxial cable. The antenna can be installed horizontally or vertically, depending on the installation orientation of the bracket. After installation, the inclination Angle of the antenna can be adjusted according to the actual situation.

The antenna bracket is an alternative component. Customers can choose according to their needs.

XC-AF12-ANT

1. ANT Size

