

# WANTENNAX020

**Circular Polarized  
Antenna 8.5dBc - FCC**



## Overview

This antenna is designed for RAIN RFID long range application like portals, vehicles identification, access control or waste management.

Thanks to the circular polarization, the tag read range is independent from the relative tag – antenna orientation.

The enclosure is IP65 rated for outdoor installation.

## Technical Specification Table

<b>Frequency Range</b>	902÷928 MHz (FCC part 15.247)
<b>Polarization</b>	Right Hand Circularly Polarized (RHCP)
<b>Gain</b>	8.5 dBc
<b>Half-Power Beamwidth (3dB)</b>	65° Elevation - 65° Azimuth (3dB)
<b>Front-to-Back Ratio</b>	15 dB
<b>Axial Ratio at Boresight</b>	2.5 dB
<b>VSWR</b>	1.3:1
<b>Nominal Impedance</b>	50 Ohm
<b>Power</b>	2 W EIRP (FCC part 15.247) - Max. 5W
<b>Lightning Protection</b>	Capacitor feed system
<b>Dimensions</b>	- (L) 270 x (W) 270 x (D) 75 mm <sup>3</sup> - 10.63 x 10.63 x 2.95 inch <sup>3</sup>
<b>Weight</b>	1.2 kg.
<b>Connector</b>	N-m with 30 cm. RG58 cable
<b>Radome</b>	Polystyrene plastic (UV rating)
<b>Mounting Kit</b>	Aluminium (for pole)
<b>IP Rating</b>	IP65
<b>Operating Temperature</b>	-30 °C to +60 °C
<b>Storage Temperature</b>	-30 °C to +60 °C
<b>Wind Surface</b>	0.066 m <sup>2</sup>

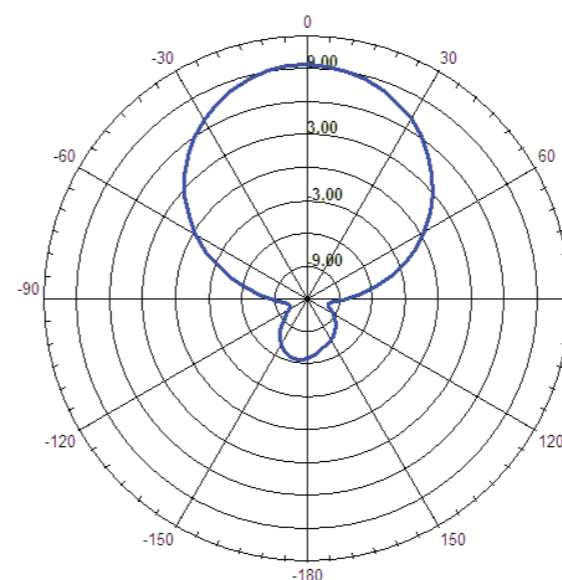
## Features

- Designed for RAIN RFID long range applications
- Frequency Range 902÷928 MHz
- Gain 8.5 dBc
- Right Hand Circularly Polarized (RHCP)

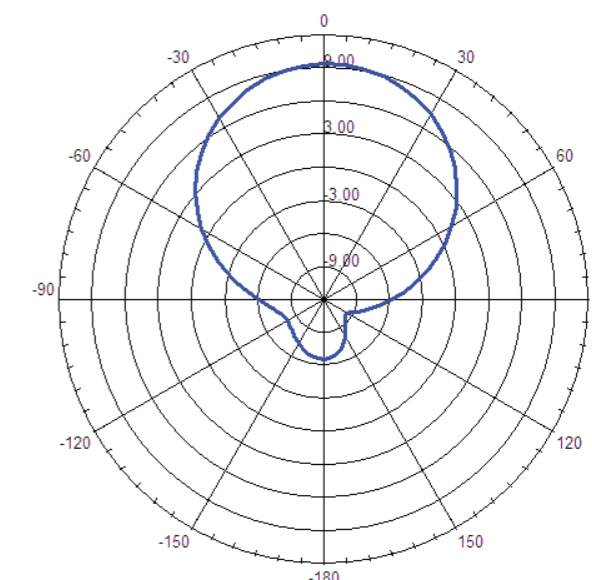
## Ordering Options

WANTENNAX020 FCC Circular Polarized Antenna 8.5 dBc

Total Gain - Azimuth



Total Gain - Elevation



VSWR vs Frequency

