

WANTENNAX020

**Circular polarized
antenna 8.5dBc - FCC**

Features

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

General Info

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.

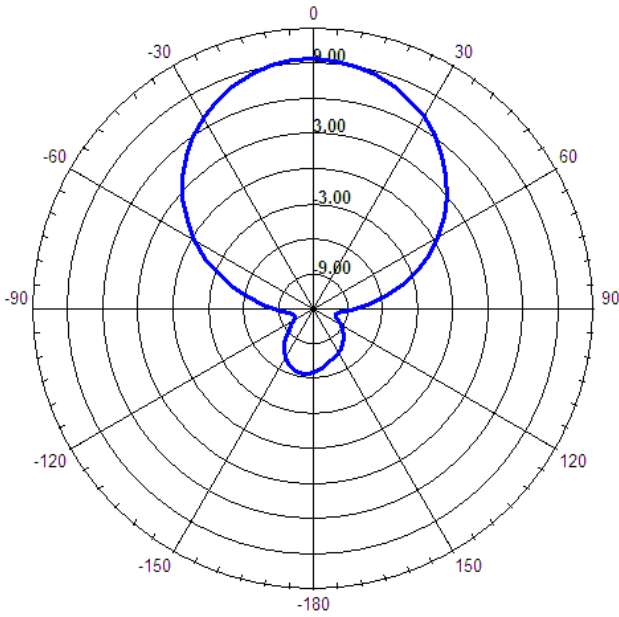
Technical Specifications Table

Frequency Range	902 ÷ 928 MHz (FCC part 15.247)
Polarization	Right Hand Circularly Polarized (RHCP)
Gain	8.5 dBc
Half-Power Beamwidth (3dB)	65° (Elevation) 65° (Azimuth)
Front-to-Back Ratio	15 dB
Axial Ratio at Boresight	<2.5 dB
VSWR	1.3:1
Nominal Impedance	50 ohm
Power	4 W e.i.r.p. (FCC Part 15.247) 5W (max)
Lightning Protection	Capacitor feed system
Dimensions	(L) 270 x (W) 270 x (H) 75 mm ³
Weight	1.2 kg
Connector	N-m with 30cm RG58 cable
Radome	Polystyrene plastic (UV rating)
Mounting Kit	Aluminium (for pole)
IP Rating	IP65
Operating Temperature	-30 to +60 °C
Storage Temperature	-30 to +60 °C
Wind Speed 160 km/h	160 km/h
Wind Surface	0.066 m ²

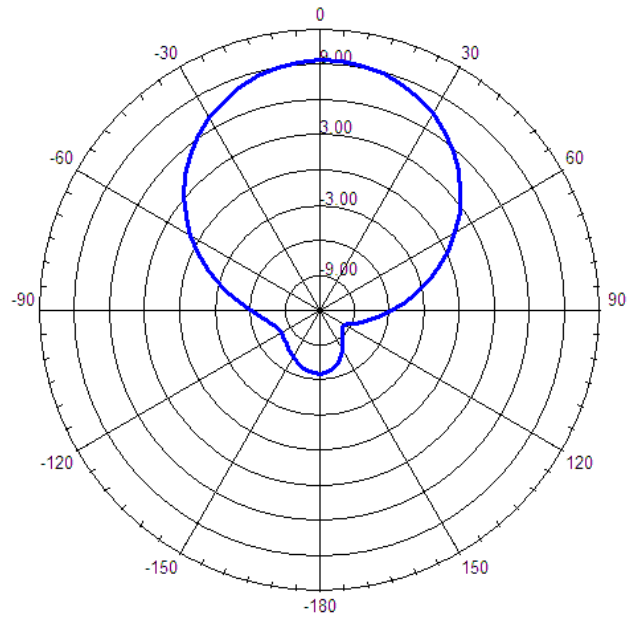
Ordering Options

Code	Description
WANTENNAX020	FCC Circular polarized antenna 8.5dBc

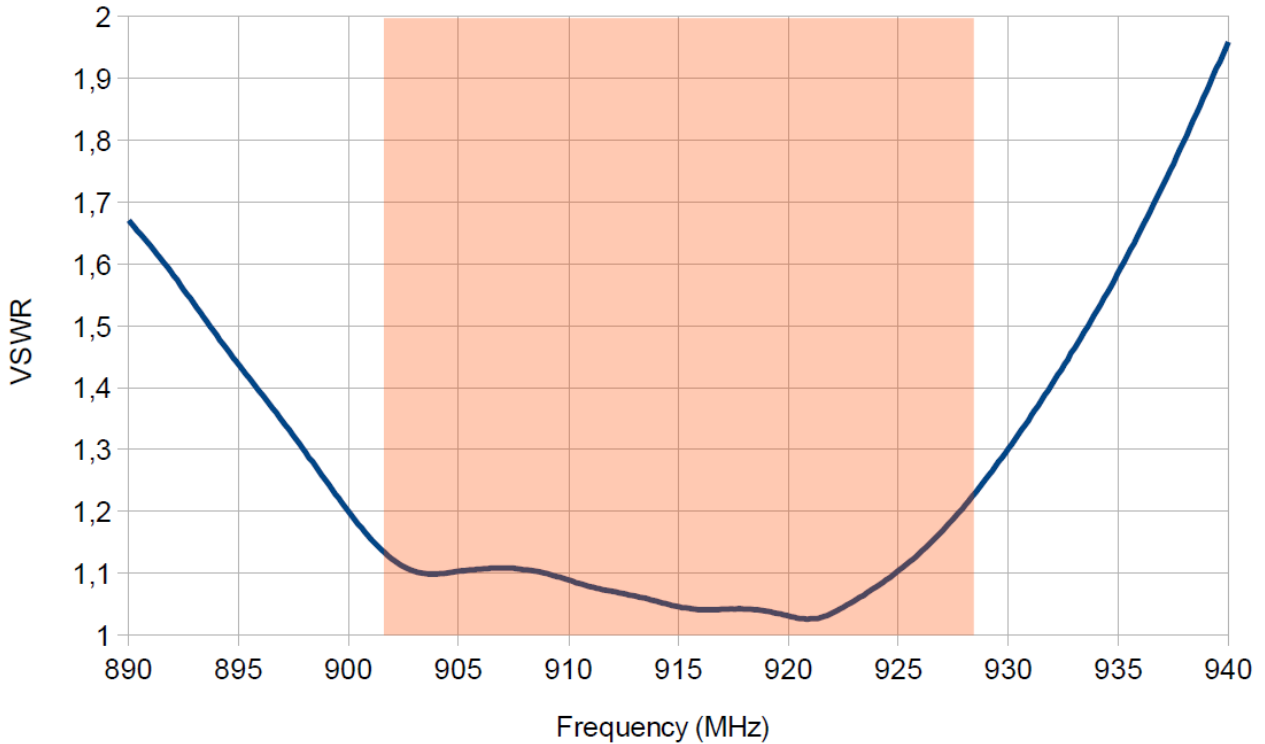
Total Gain - Azimuth



Total Gain - Elevation



VSWR vs Frequency



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