

## Taoglas OMB Barracuda 915 MHz ISM Collinear Antenna

Product Code

OMB.915.B03F21

Polarisation

Vertical (V)

Design Type

Collinear

Application Category

Base Station

RF Category

IoT



The OMB.915.B03F21 is a fibreglass omnidirectional outdoor antenna, operating in the 915 MHz ISM band, is designed to offer long distance coverage. The antenna is designed for applications such as metering, industrial / environmental monitoring, remote asset monitoring, and mesh network applications.

The OMB.915 operates at 902 to 928 MHz, one of the most widely used license free ISM bands, with a 3.5 dBi peak gain. The omnidirectional antenna radiates uniformly in the azimuth. This collinear design characteristic provides the best performance, giving optimised coverage and therefore longer range in the horizontal plane over 360 degrees, thus minimising the amount of nodes needed for a mesh network.

The UV resistant fibreglass housing enables the OMB antenna to be utilised in all kinds of harsh environments, making it more robust and safer than traditional whip antennas. It can be connected directly to the access point or telemetry unit, or can be mounted on wall or device surface via the N Female connector.

- Finely tuned for 915 MHz ISM
- Fibreglass design for harsh outdoor environments
- Stable azimuth pattern, excellent VSWR response
- Consistent 3.5 dBi gain
- Integrated N Female connector

### ▼ Antenna Technical Data

#### Physical Characteristics

Construction Material	Fibreglass (GRP)	RF Connections	1
Radome Colour	Other - White	Environmental Rating	No Data
Dimensions	1094 x 70 x 55 mm (L x W x D)	Operating Temperature	-40 °C to 60 °C
Weight	0.7600 kg	Mounting	U-bolt, 50 mm ø pole

### ▼ 900 MHz Collinear Element

**Electrical Specifications****Mechanical Specifications**

Input Impedance	50 $\Omega$	Input Connector	N
Polarisation	Vertical (V)	Input Connector Gender	Female
Max. Input Power	50 W	Cable Series	-
PIM, 3rd Order	-	Cable Length	-

▼ Range: 902 to 928 MHz

Peak Gain	3.50 dBi	Azimuth Beamwidth	360°
VSWR	1.5:1	Elevation Beamwidth	15°
Radiation Efficiency	60%	Electrical Tilt	0°
Front-to-Back Ratio	-	Inter-Port Isolation	-
Cross-Polar Discrimination	-	Cross-Polar Isolation	-

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