



Barracuda - 915MHz 8dBi Omni Directional Outdoor Antenna Part No: OMB.915.B08F21

Features:

Omni-Directional Radiation Collinear 8dBi Peak gain Robust design for all weather operation IP65 waterproof 1474mm in length, 870 g in weight N type Female connector Wall/Pole mount bracket included RoHS Compliant



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1. Introduction



The OMB.915.B08F21 is a fiberglass omni-directional outdoor antenna, operating in 915 MHz ISM bad. The antenna has an 8dBi high peak gain, providing a large coverage area. Typical applications are in ISM, WLAN, RFID, SigFox, Lora and LPWA networks

The OMB.915.B08F21 Operated at 915MHz, with an 8dBi peak gain. The omni-directional antenna collinear dipole design means it radiates uniformly in the azimuth with a high gain, providing coverage over long distances, thus minimizing the number of cells or nodes needed in a network.

The UV resistant fiberglass housing enables the OMB antenna to be utilized in all kinds of harsh environments, making it more robust and safer than traditional whip antennas. It has been designed to withstand high wind load. The integrated aluminum mounting bracket is perfect for directly mounting the antenna onto a pole or a wall.

The connector is industry standard N-type female. Connector can be customized subject to MOQ. Other frequencies and gains are available. Contact Taoglas reginal sales office for more details.



Specifications

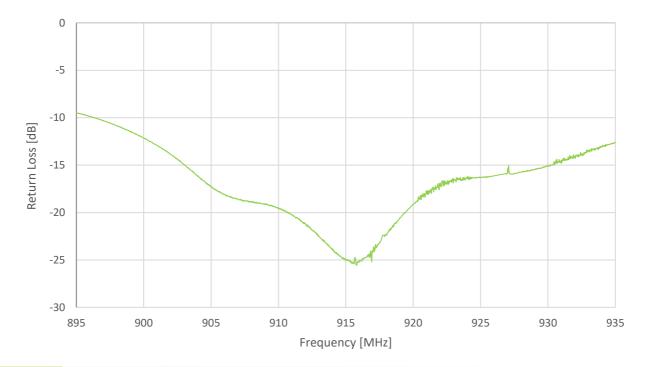
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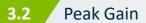
Electrical			
Standard	ISM 868		
Band	902 – 928 MHz		
Antenna Type	Collinear Dipole Array		
Peak Gain	8 dBi		
Polarization	Vertical		
Impedance	50 ohms		
Max Input Power	50 watts		
VSWR	1.5:1		
Radiation	Omni-Directional		
Vertical Beamwidth	14 Deg		
Horizontal Beamwidth	360 Deg		
Internal Material	Copper		
Connector	N Type Female		
Mechanical			
Length	1474 mm(Max)		
Bracket Dimension	70 x 73mm(Max)		
Radome Diameter	24mm		
Antenna Weight	870g		
Mounting Accessories Weight	70g		
Application	Indoor/Outdoor		
Radome Material	White Fiberglass		
Bracket Material	Aluminum		
Mount Style	Pole Mount/Wall Mount		
Mount Hardware Material	Stainless Steel		
Wind Resistance	>150mph (>241km/h)		
Waterproof	IP65		
	Environmental		
Storage Temperature	-40°C to +80°C		
Operating Temperature	-40°C to +60°C		
Operating Humidity	10%~90% non-condensing		
Storage Humidity	5%~90% non-condensing		

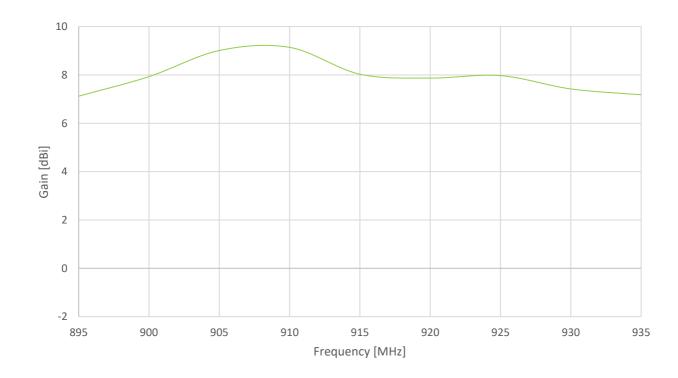








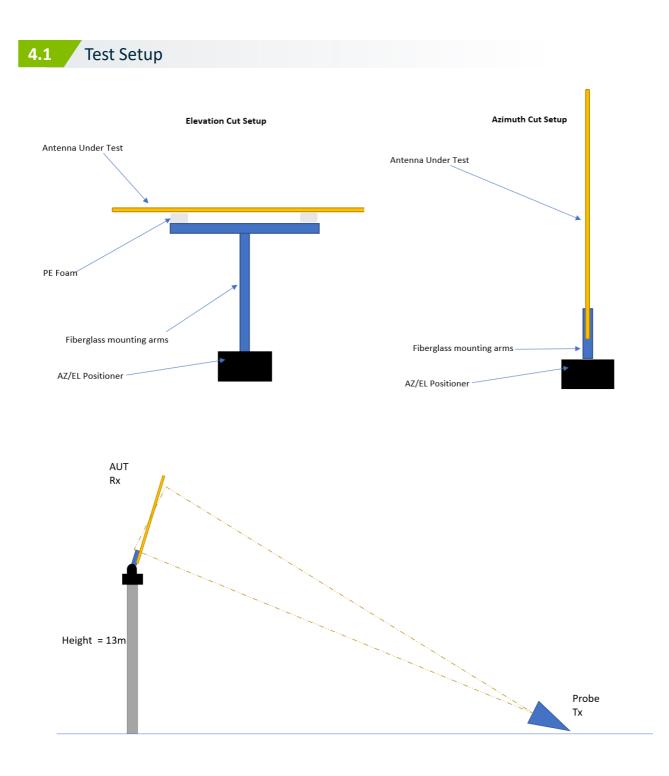




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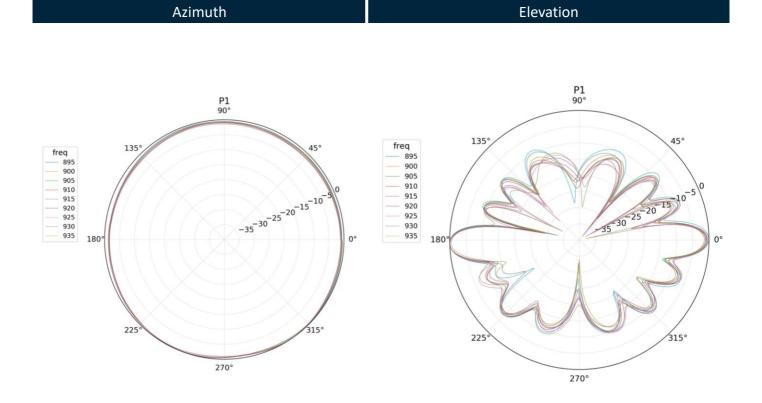
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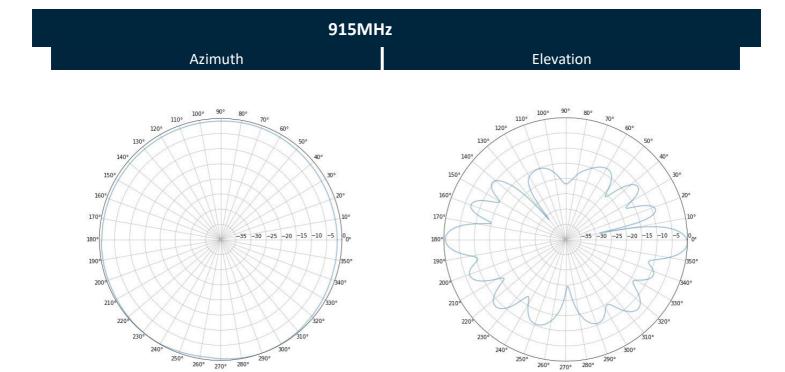




2D Radiation Patterns

4.2

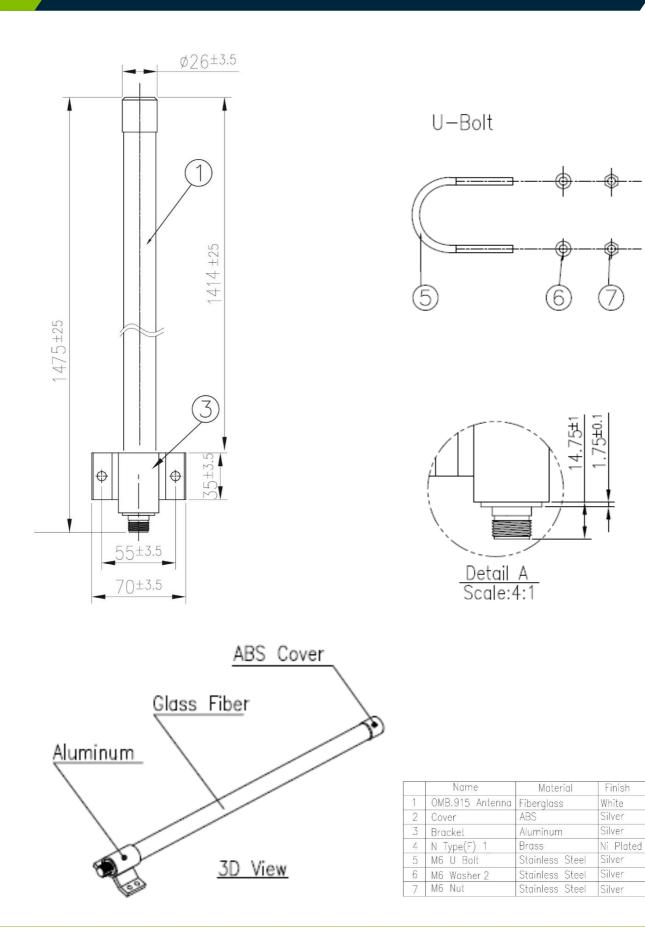






Mechanical Drawing (Units: mm)

5.



QTY

1

1

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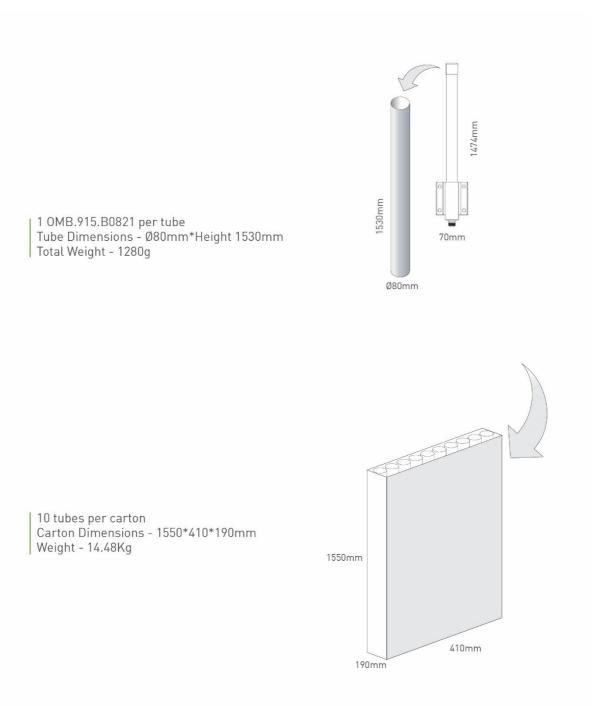
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2



6. Packaging







Installation Instructions Barracuda OMB Series Omni-directional Outdoor Antenna

A) Introduction

The Barracuda OMB Antenna is an omnidirectional, fibreglass, outdoor antenna. The UV resistant fibreglass housing enables the OMB antenna to be utilized in all kinds of harsh environments, making it more robust and safer than traditional whip antennas. The omnidirectional antenna's collinear dipole design allows it to radiates uniformly in the azimuth with a high gain, providing coverage over long distances, thus minimizing the number of cells or nodes needed in a network. The antenna has an integrated aluminium bracket to be directly installed on a pole, designed to offer a secure, high wind resistant mount.



To ensure prime performance, the Barracuda OMB series should be mounted in a clean location that is clear from all obstruction so that there is no impact on radiation performance. Also, before installing there must be at least 15mm clearance of all metallic objects around the location. When mounting the bracket on the pole, make sure to keep the bracket level with the top of the pole. The bracket should be mounted on the pole using the following list that are all supplied by Taoglas.

4 M6 Nuts

2 M6 U-Bolt 4 Washers

1 Barracuda Antenna



When mounting the antenna it is important that the top of the aluminium bracket is aligned with the top of the pole. The top of the pole should not exceed the top of the mounting bracket as it will interfere with the with the antennas performance.

See image for reference of correct mount alignment.



D Installation of the Antenna

Put the two U-Bolts around the pole and through the holes in the aluminium bracket. Making sure that the bracket is correctly positioned level to the top of the pole, place one of the four washers provided, over each of the threaded ends of the U-bolts. Then screw on of the four M6s nuts provide on to each threaded end of the U-bolts and tighten in place.



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E) Securing the Mount

In order to make sure that the antenna is firmly secured in place on the top of the pole, ensure that the four M6 nuts have been fully tightened. The bracket should not move or shake at all once properly installed.



G) Notices



Caution

To comply with FCC RF Exposure requirements in section 1.1310 of the FCC Rules, antennas used with this device must be installed to provide a separation distance of at least 20 cm from all persons to satisfy RF exposure compliance.



Warning

Do not Operate the transmitter when someone is within 20 cm of the antenna. **Do not** operate the equipment in an explosive atmosphere.



European Waste Electronic Equipment Directive 2002/96/EC

Please ensure that your old Waste Electricals and Electronics are recycled do not throw them away into standard waste.



Directive 2014/53/EU Radio Equipment Directive (RED)

Harmonised Standards and References:

EN 301 489-1 (V2.2.1): ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements. Referencing CENELEC EN 55032 Class B.

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Changelog for the datasheet

SPE-17-8-041 - OMB.915.B08F21

Revision: E (Current Version)		
Date:	2022-09-20	
Changes:	Full Data sheet update	
Changes Made by:	Evan Murphy	

Previous Revisions

Revision: D			
Date:	2018-03-27		
Changes:	Amended Installation		
Changes Made by:	Jack Conroy		

R	Revision: C				
	Date:	2018-12-03			
	Changes:	Added Installation Guide			
	Changes Made by:	Jack Conroy			

Revision: B			
Date:	2017-08-17		
Changes:	Updated with revised packaging details		
Changes Made by:	Andy Mahoney		

Revision: A (Original First Release)		
Date:	2017-08-10	
Notes:		
Author:	Technical Writer	



Previous Revisions (Continued)	

