



DATASHEET

AW4043-E-F-BB (1.2m)

Common Name- 2 Port,1.2m, Band 28, Small Cell Omni

713-803MHz	2	eRET	9.0	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This is a two port Omni antenna covering 713-803MHz in a 298mm diameter canister housing. This product was developed to offer a small form factor solution for the 700MHz applications.

APPLICATION

Alpha Wireless pseudo omni provides 360° coverage whilst in an ultra-compact radome design. The low-band antenna is designed to be installed in environment's where low visual impact is required. The compact size is intended to minimize planning requirements.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

- Band 28 - Low band antenna
- Compact design for small cell deployment - low visual impact.
- Slim monopole design to reduce wind loading.

The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 11.1.



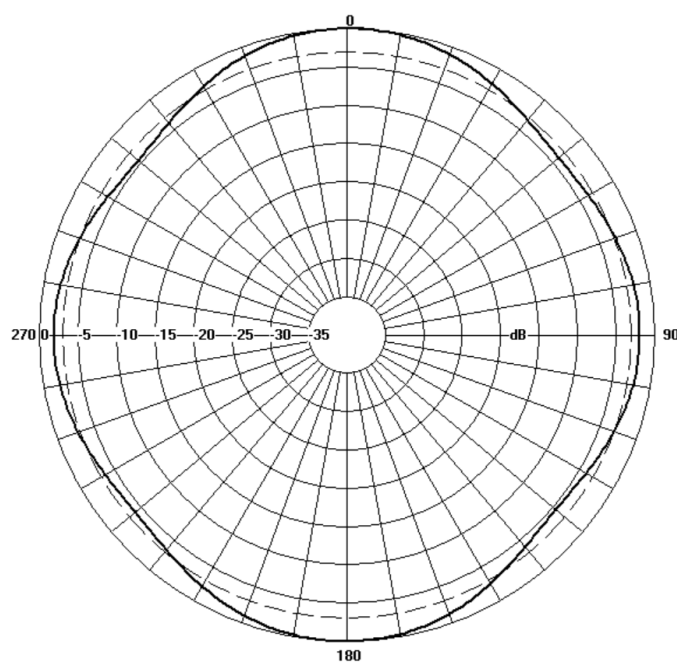
AW4043-E-F-BB (1.2m)

TECHNICAL SPECIFICATION

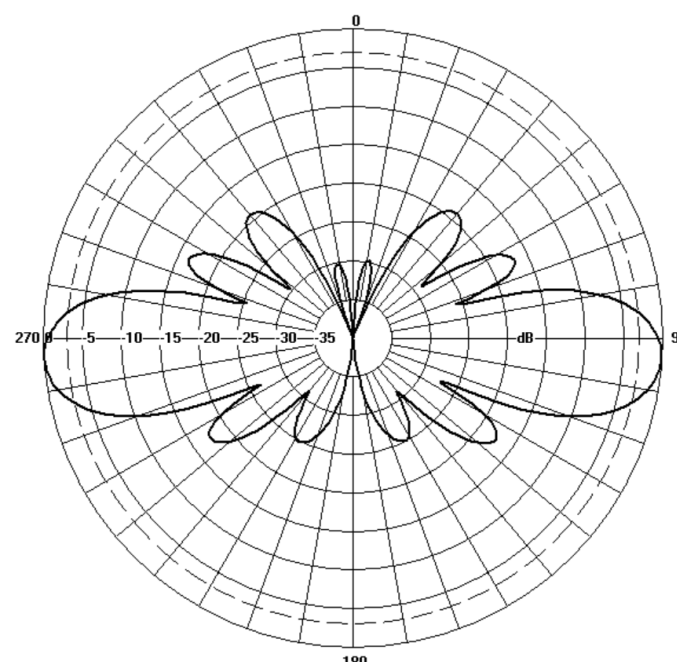
Electrical Specifications

Frequency Range		MHz	713-803
Polarisation		Degree	+/- 45° Slant Linear
Gain	Basta	dBi	8.5±0.5
	Max	dBi	9.0
Azimuth Beamwidth		Degree	360°
Elevation Beamwidth		Degree	18°
Electrical Downtilt		Degree	T4-T20
Electrical Downtilt Deviation		Degree<	1°
Impedance		Ohms	50
VSWR		<	1.5
Return Loss		dB>	14
Isolation		dB>	25
Passive Intermodulation		dBc<	-153
Cross-Polar Discrimination		dB>	10
Maximum Effective Power Per Port		W	150

Representative Pattern Files



Azimuth



Elevation

For radiation pattern files, please login at www.alphawireless.com



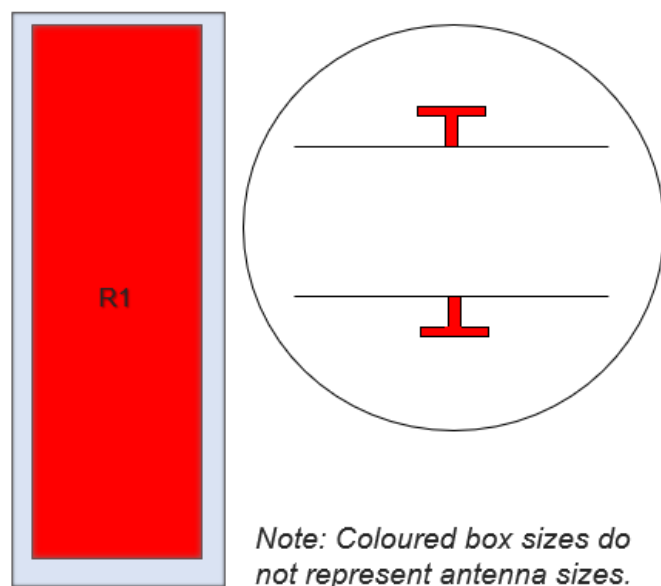
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TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions	mm (in)	1200 (47.2) x 298 (11.7) - (L x Ø)
Net Weight (antenna)	kg (lb)	13 (28.7)
Net Weight (Shroud and Mount)	kg (lb)	
Connector Type (Female)	-	4.3-10
Connector Quantity	-	2
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	290 (66)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	290 (66)
Survival Wind Speed	km/h (mph)	324 (201)
Radome Material	-	UV-Stabilized PVC
Radome Colour	RAL	7035 (light grey)
Product Compliance Environmental	-	RoHS
Lightning Protection	-	DC Grounded
Cold Temperature Survival	°C (°F)	-40 (-40)
Hot Temperature Survival	°C (°F)	70 (158)

Array Layout and RET Information



Array	Frequency MHz	Ports	RET ID
R1	713 – 803	1 – 2	1

Configuration	
713-803 MHz	One RET per array: R1
Total Quantity	One RET Motor Controller
Location and Interface	
RET Controller Location	Inside antenna radome housing
RET Interface	Pair of AISG 8 Pin DIN connectors, one male, one female
RET Interface Quantity	One pair of AISG 8 Pin DIN connectors
RET Interface Location	On connector plate located at bottom of antenna
Electrical	
Input Voltage	10 – 30V
Power Idle Mode	< 1W
Power Active Mode	< 10W
Protocol	3GPP / AISG 2.0



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Ordering Info

Order Code - Antenna

AW4043-E-F

Order Code - Accessories

AW1012-2-FM-FM

AW1012-2-FM-NM

AW1014-2-FM-TM

Description

Enclosed Remote Electrical Tilt (eRET) with 4.3-10 Connectors

Description

RF Jumper Cable, connector types 4.3-10 (m) / 4.3-10 (m), length 2 metres (6'6")

RF Jumper Cable, connector types 4.3-10 (m) / N-Type (m), length 2 metres (6'6")

RF Jumper Cable, connector types 4.3-10 (m) / Nex10 (m), length 2 metres (6'6")

Enquiries

Global Headquarters
Ashgrove Business Centre,
Ballybrittas, Portlaoise,
R32 DT0A, IRELAND
sales@alphawireless.com
+353 57 86 33847

North America
7301 W. 129th Street, Suite 150,
Overland Park,
KS 66213, USA
sales@alphawireless.com
+1 913 279 0008

Australia
3/76 Regentville Rd,
Jamisontown,
NSW 2750, AUSTRALIA
sales@alphawireless.com
+ 61 2 4504 8212

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