



AW4076-M-F

Common Name 4 Port 0.8m Dual Band Panel Antenna with MET

1695-2690MHz	2	MET	14.0	65°
3300-4200MHz	2	MET	14.3	65°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This product was designed to offer Mid-band and 3.5GHz functionality in a compact housing.

APPLICATION

Alpha Wireless multi-band small cell antenna provides directional coverage whilst in an ultra-compact radome design. This antenna provides 2G to 5G ports for ultimate data throughput.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

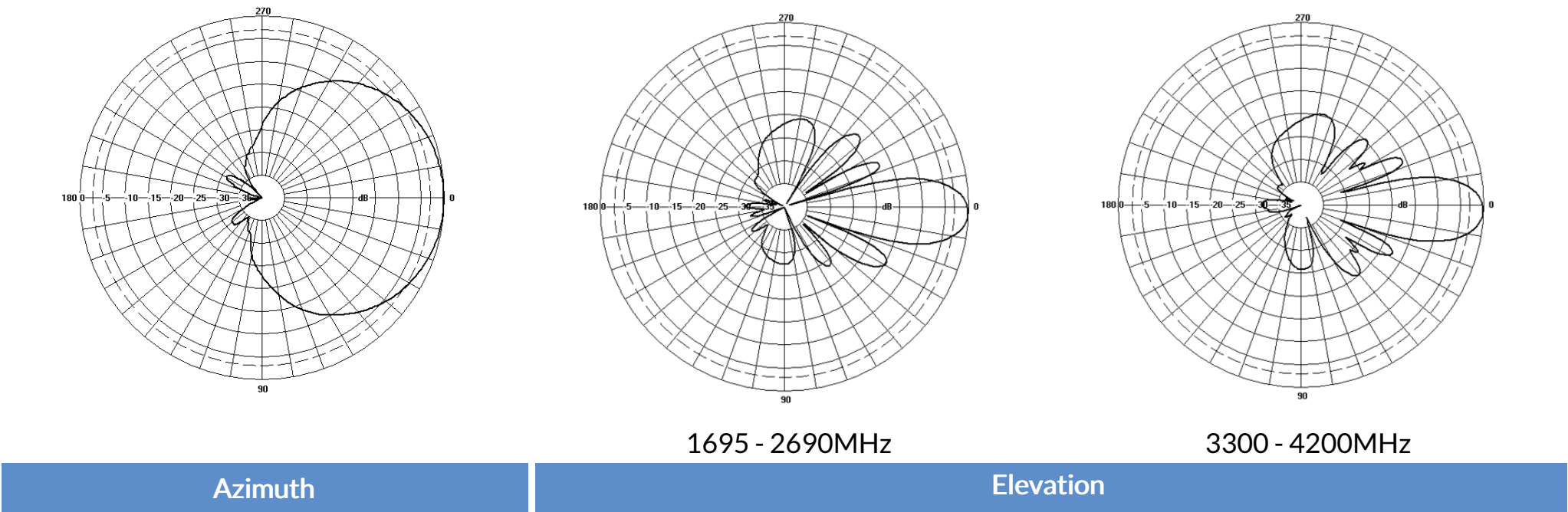
- Dual-Band antenna.
- Vertically stacked arrays to reduce width to 160mm.
- Two to eight degrees range of Manual Electrical Tilt (MET).
- Electrical Tilt is adjusted by a locking sliding scale MET actuator located on Connector Plate.
- Two ports covering 1695-2690MHz.
- Two ports covering 3300-4200MHz.
- Compact design - Low visual impact.

The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 9.6.

TECHNICAL SPECIFICATION

Electrical Specifications								
Frequency Range		MHz	1695-1920	1920-2170	2170-2500	2500-2690	3300-3700	3700-4200
Polarisation		Degree	+/- 45° Slant Linear					
Gain	Basta	dBi	12.8 ±0.5	13.0 ±0.5	13.2 ±0.5	13.5 ±0.5	13.3 ±0.5	13.8±0.5
	Max	dBi	13.3	13.5	13.7	14.0	13.8	14.3
Azimuth Beamwidth		Degree	65°	62°	59°	58°	63°	66°
Elevation Beamwidth		Degree	20°	18°	15°	14°	17°	15°
Electrical Downtilt		Degree	T2°-T8°	T2°-T8°	T2°-T8°	T2°-T8°	T2°-T8°	T2°-T8°
Electrical Downtilt Deviation		Degree<	1.5°	1.5°	1.5°	1.5°	1.5°	1.5°
Impedance		Ohms	50					
VSWR		<	1.5					
Return Loss		dB>	14					
Isolation		dB>	25	25	25	25	25	25
Front to Back Ratio: Total Power +/-30°		dB>	25	25	25	25	25	25
Passive Intermodulation		dBc<	-150	-150	-150	-150	-150	-150
Cross-Polar Discrimination (0°)		dB>	16	16	16	16	16	16
Maximum Effective Power Per Port		W	150	150	150	150	100	100

Representative Pattern Files



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



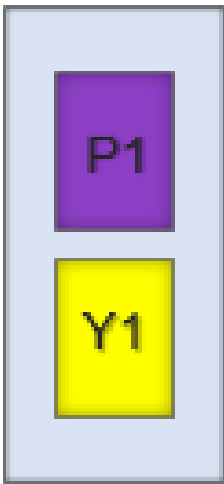
AW4076-M-F

TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions (LxWxDepth) or (L x Diameter)	mm (in)	820 (32.3) x 160 (6.3) x 81(3.2)
Volume	L (ft ³)	9.8 (0.345)
Net Weight (antenna)	kg (lb)	6.0 (13.2)
Shipping Weight	kg (lb)	5.5 (12.1)
Connector Type (Female)	-	4.3-10
Connector Position	-	Bottom
Connector Quantity	-	4
Windload Frontal (at Rated Wind Speed: 150km/h)	N	120
Windload Lateral (at Rated Wind Speed: 150km/h)	N	56
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV Stabilised PVC
Radome Colour	RAL	7035
Product Compliance Environmental	-	RoHS
Lightning Protection	-	DC Grounded
Cold Temperature Survival	Celsius (Fahrenheit)	-40 (-40)
Hot Temperature Survival	Celsius (Fahrenheit)	70 (158)

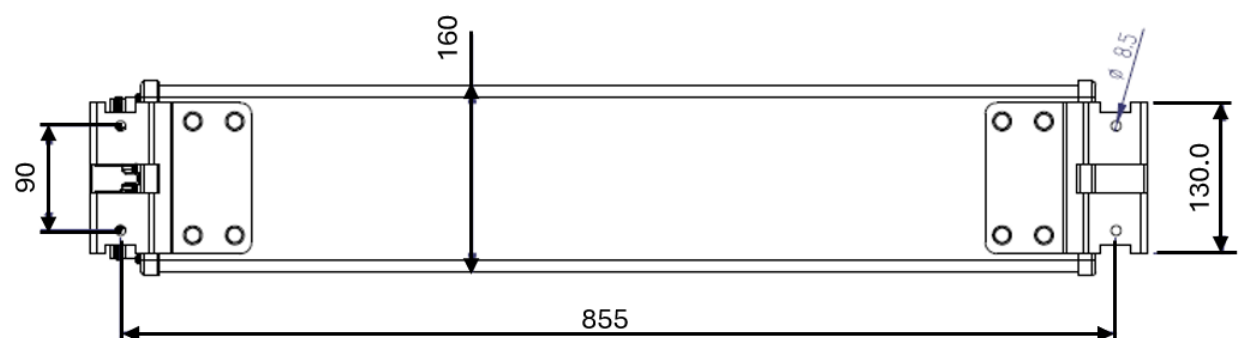
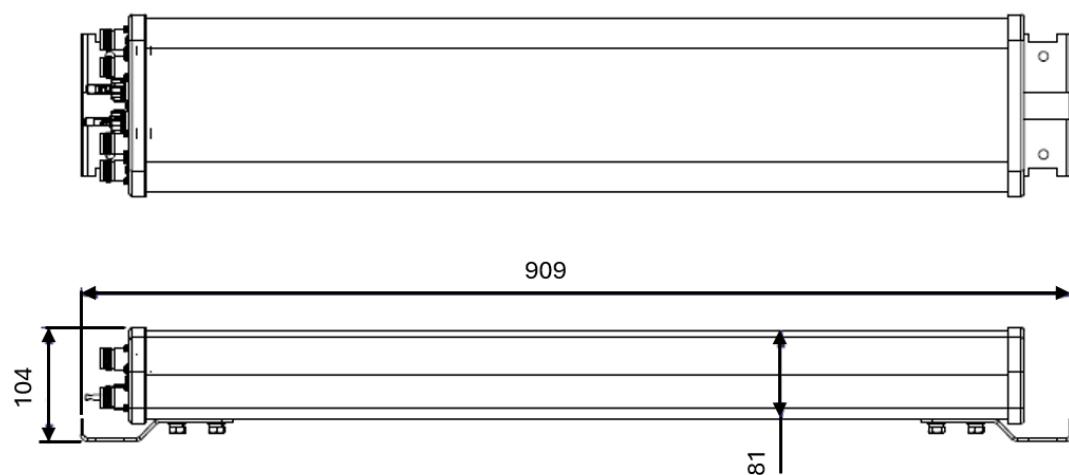
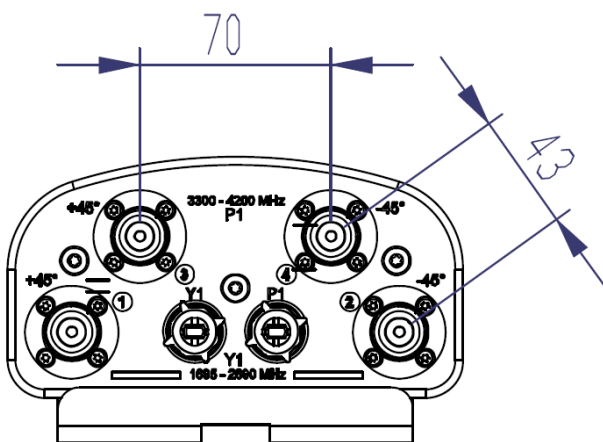
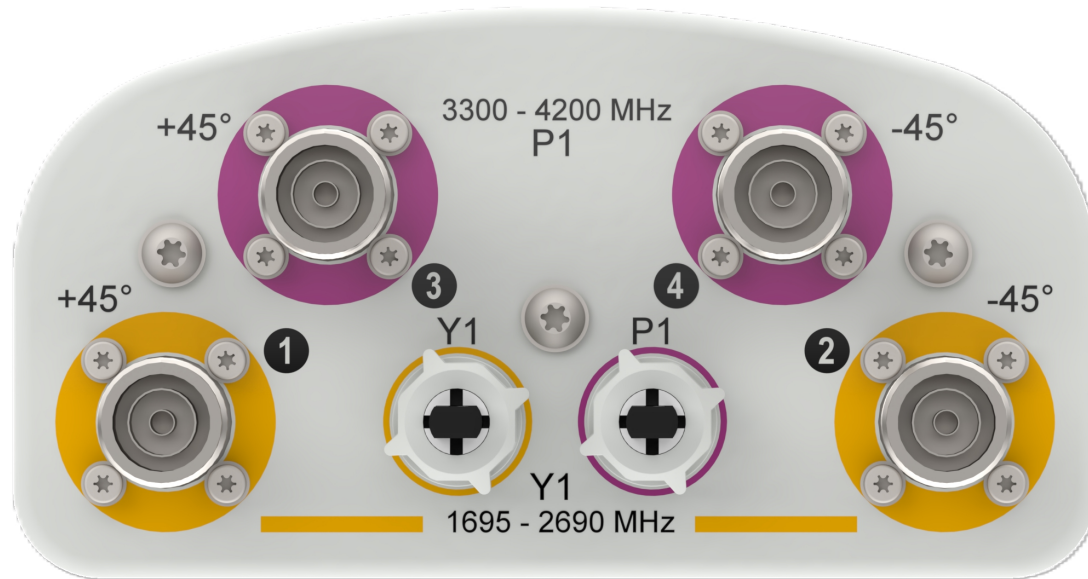
Array Layout and RET Information



Array	Frequency MHz	Ports
Y1	1695 – 2690	1 – 2
P1	3300 – 4200	3 – 4

Note: Coloured box sizes do not represent antenna sizes

Mechanical Illustration





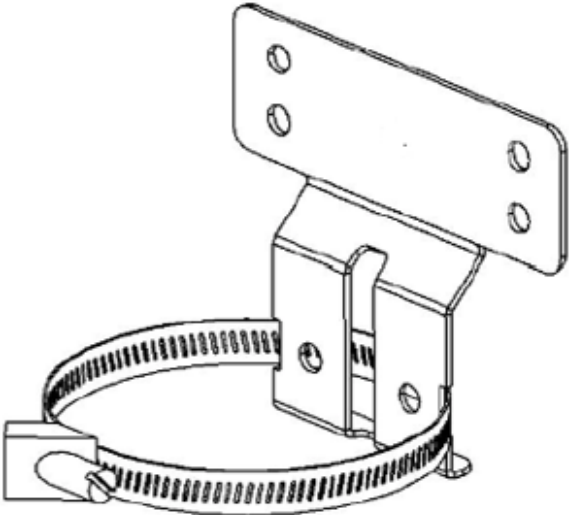
TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-158 - Jubilee Clip 240mm (9.5inch) stainless steel (Included with Antenna)



Jubilee Clip x 2



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0	Stainless Steel	152mm-254mm (6" to 10")

Ordering Info

Order Code - Antenna

AW4076-M-F

Order Code - Accessories

AW1012-2-FM-FM

AW1012-2-FM-NM

AW1014-2-FM-TM

Description

Manual Electrical Tilt 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")

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