



AW3737-M-F

Common Name 4 Port, 20", Mid Band 65°, Small Cell

1695 - 2690MHz	4	MET	14	65°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

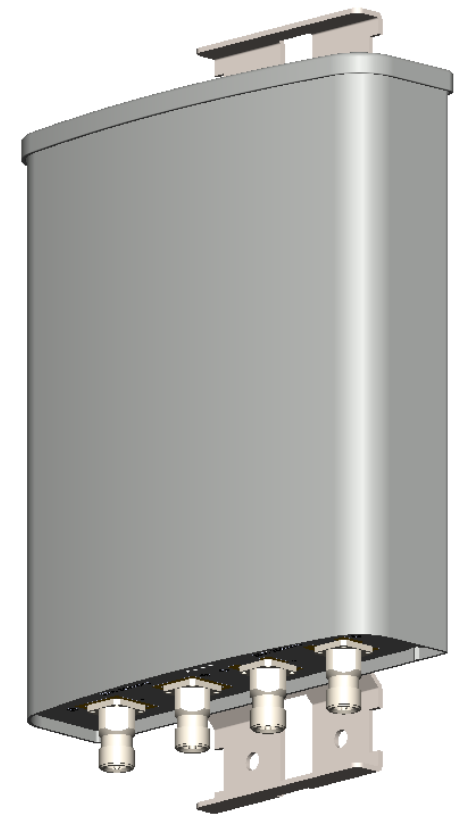
This Product design is intended to offer four ports on the Mid-Band (1695 - 2690MHz). The product is contained in a 18" housing. Mechanical Electrical Tilt (MET) on the Mid-band allows tilt optimization to improve coverage and throughput.

APPLICATION

This Alpha Wireless small cell solution provides sector coverage in an ultra compact Radome design. This antenna is designed to have good Elevation Beamwidth control while also balancing the need for a limited height where low visual impact is required.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

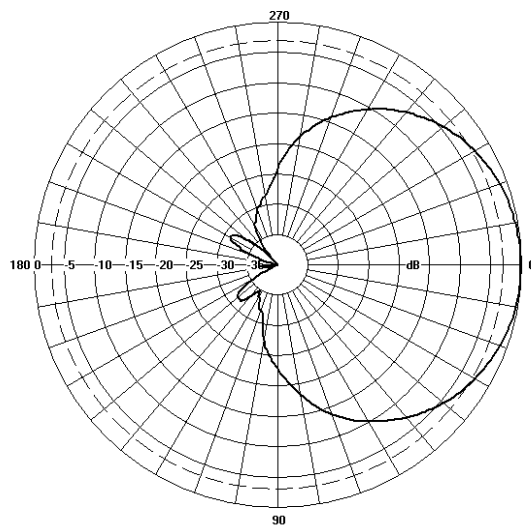
- Compact design for low visual impact.
- Elevation Beam of between 13° - 19°
- Mechanical Electrical Tilt of 2 to 10 degrees.
- Easy attach Pipe Strap Mount Kit
- Manufactured in Ireland.

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

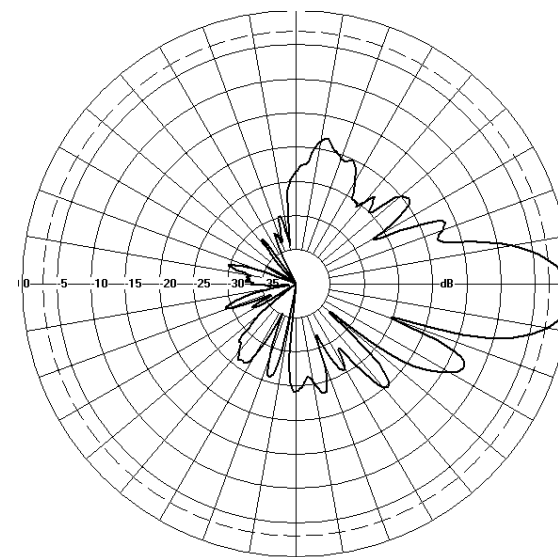
TECHNICAL SPECIFICATION

Electrical Specifications						
Frequency Range	MHz	1695 - 1995	1920 - 2170	2170 - 2500	2500 - 2690	
Polarisation	Degree	+/- 45° Slant Linear				
Gain	Basta	dBi	12.9±0.5	13.3±0.5	13.5±0.5	13.7±0.5
	Max	dBi	13.4	13.8	14.0	14.2
Azimuth Beamwidth	Degree	71°	67°	63°	58°	
Azimuth Beam Squint	Degree<	5°				
Elevation Beamwidth	Degree	19°	17°	15°	13°	
Electrical Downtilt	Degree	T2° - T10°				
Electrical Downtilt Deviation	Degree<	1.5				
Impedance	Ohms	50				
VSWR	<	1.5				
Return Loss	dB>	14				
Isolation	dB>	25				
Front to Back Ratio: Total Power +/- 30°	dB>	27				
Passive Intermodulation	dBc<	-150				
Cross-Polar Discrimination	dB>	16				
Maximum Effective Power Per Port	W	250				

Representative Pattern Files



Azimuth



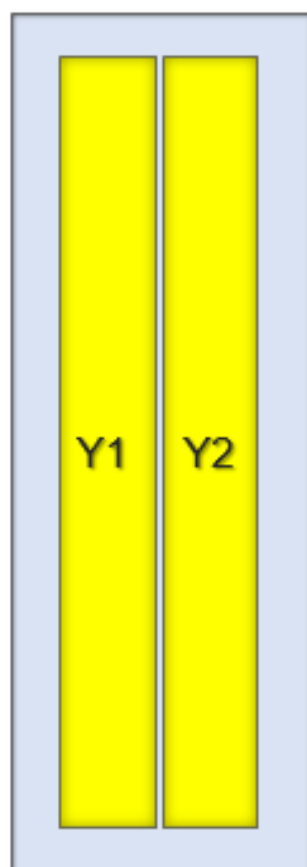
Elevation

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

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions	mm (in)	500 (19.7) x 280 (11) x 125 (4.9) - LxWxH
Net Weight (antenna)	kg (lb)	5 (11.0)
Net Weight (mount)	kg (lb)	1.5 (3.3)
Shipping Weight	kg (lb)	7.5 (16.5)
Connector Type (Female)	-	4.3-10
Connector Position	-	Bottom
Connector Quantity	-	4
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	144 (33)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	67 (15)
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)

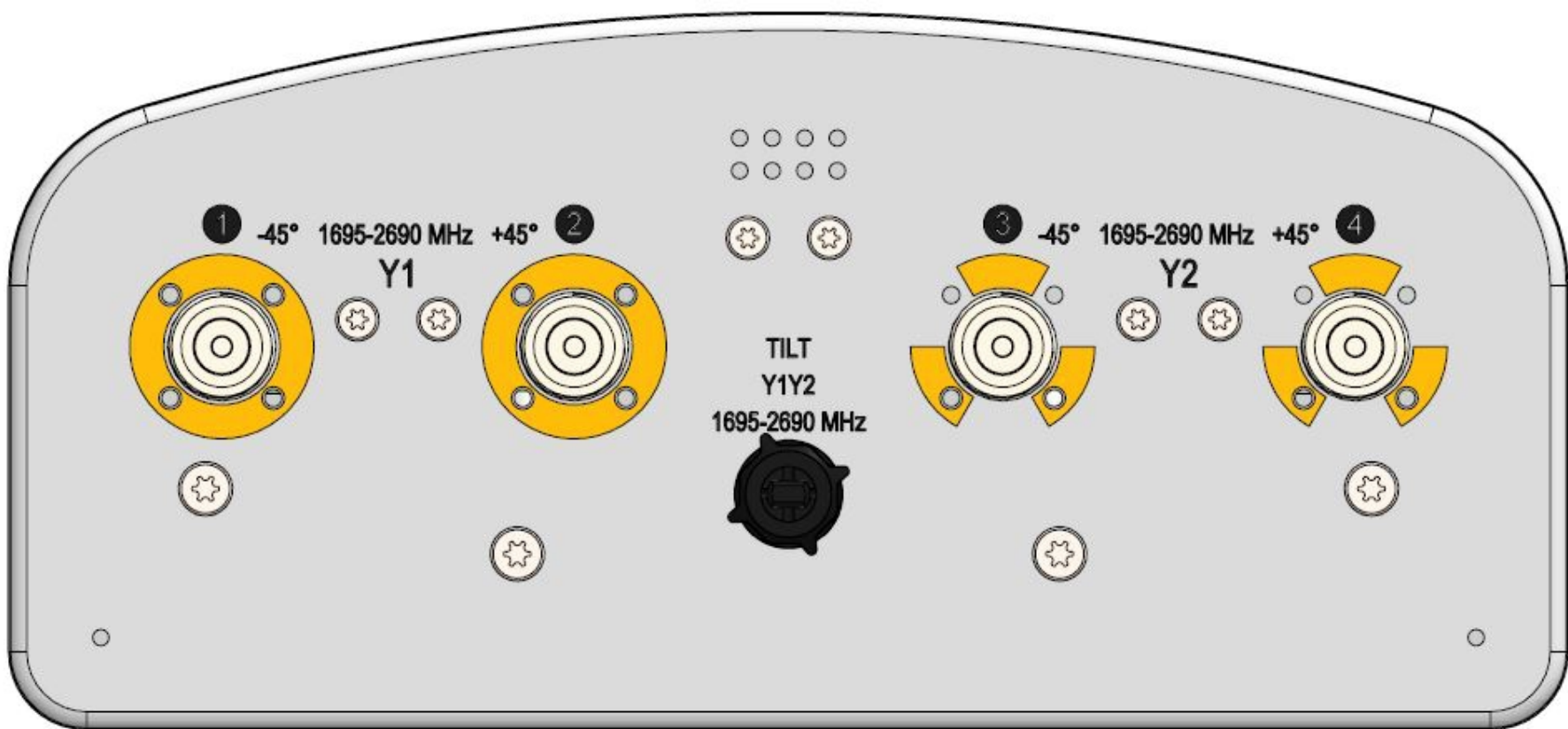
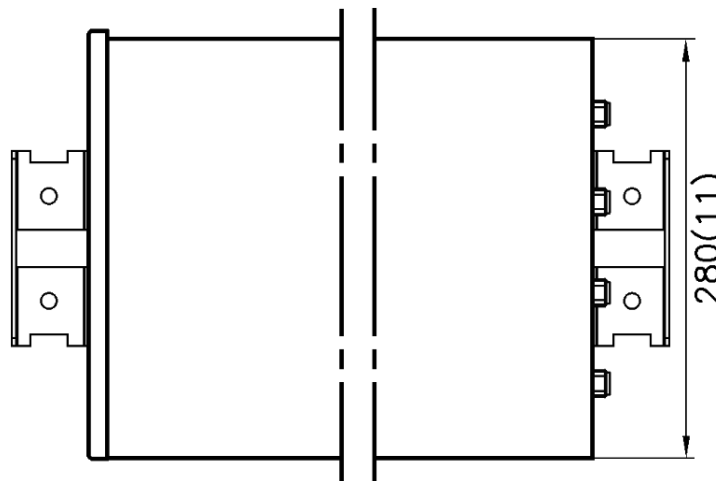
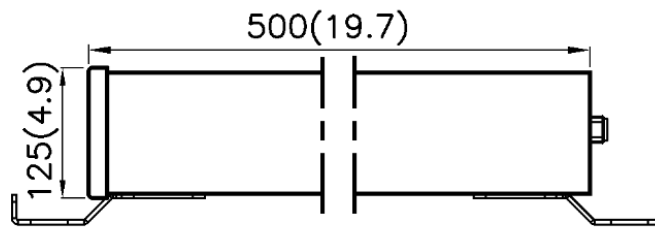
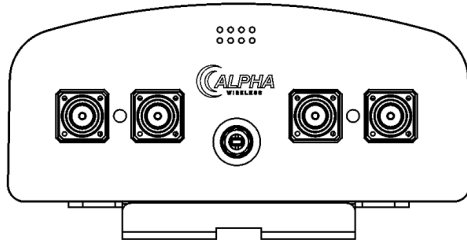
Array Layout and RET Information



Array	Frequency MHz	Ports	MET ID
Y1	1690 - 2690	1 - 2	1
Y2	1690 - 2690	3 - 4	1

Note: Box sizes do not represent antenna sizes.

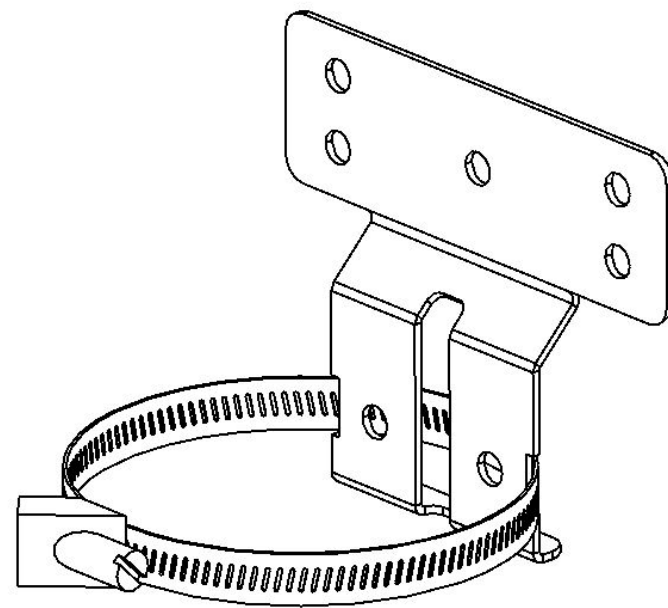
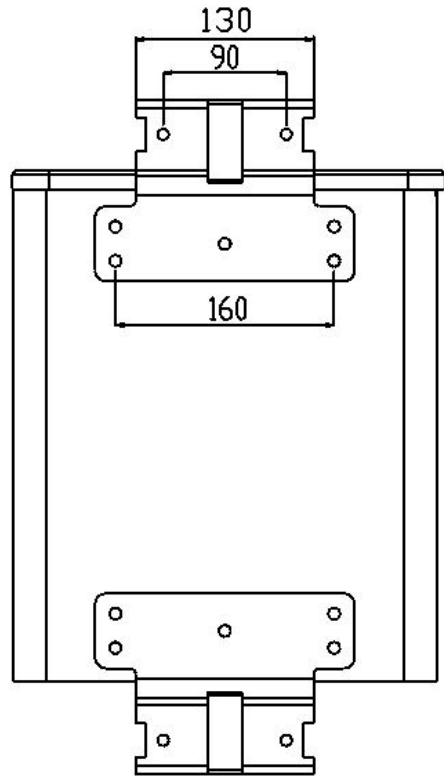
Mechanical Illustration



TECHNICAL SPECIFICATION

Mounting Bracket Kit

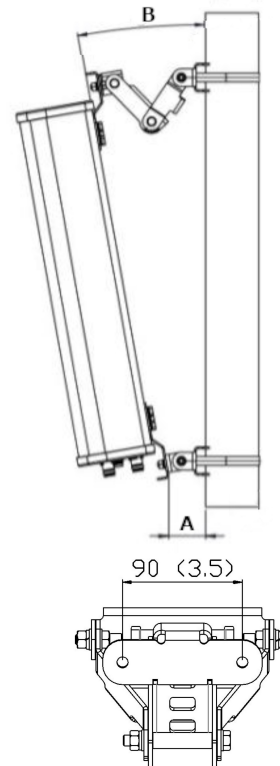
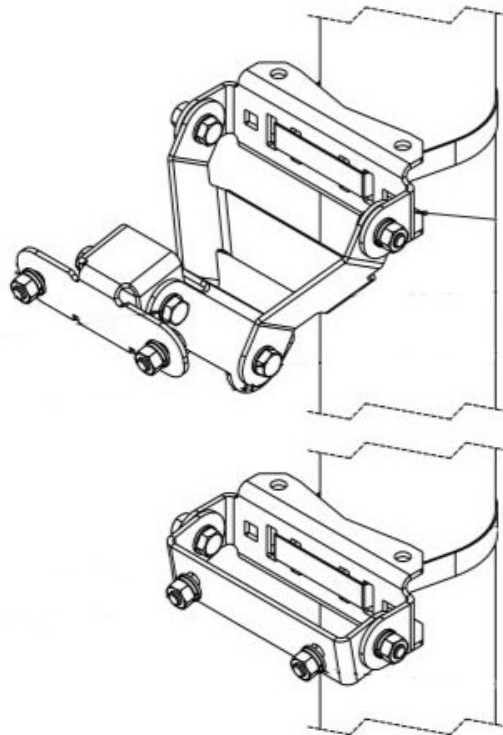
CL-V-119 (210mm-242mm Quick Release Hose Strap & Mounting Kit Included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0	Stainless Steel	N/A

Mounting Bracket Kit

CL-V-156 Adjustable Mounting Accessory



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0	Stainless Steel	N/A

Ordering Info

Order Code - Antenna

AW3737-M-F

Description

Manual Electrical Tilt (MET) with 4.3-10 Connectors.

Order Code - Accessories

AW1012-2-FM-FM

Description

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

AW1012-2-FM-NM

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

AW1014-2-FM-TM

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

Enquiries

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