



DATASHEET

AW3625-M-N-G

Common Name- 2Port, 24", MIMO, Bands 42, 43 & 48, MET & GPS Small Cell Omni

3300-3800MHz	2	MET	8.5	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This product was developed to offer a Tri-Sector pseudo omni solution with independent tilt control on each of the three sectors across Bands 42/43 in a small form factor canister. It has a built in GPS antenna. Operates between 3300-3800MHz covering LTE Bands B42, 43 & 48 and 5G NR Band n78.

APPLICATION

Alpha Wireless pseudo omni antenna provides 360° coverage whilst in an ultra-compact radome design. The wide-band antenna is designed to be installed in urban environment where low visual impact is required. There are a number of mounting options available making deployments on lamp posts, utility poles, walls and other vertical structures possible. The 2 port antenna provides 2X2 MIMO for improved data throughput with electrical variable tilt for maximum optimization.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

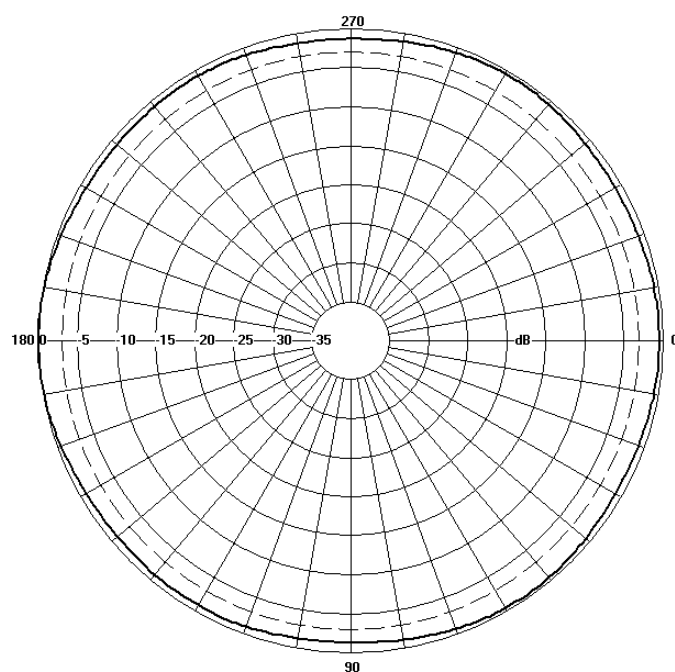
- Wide-band antenna that covers LTE Bands 42, 43 & 48 and 5G NR Band n78. Includes CBRS Band.
- Optimized Pseudo omni with reduced azimuth ripple
- Slim monopole design to reduce wind loading
- Independent RET control for each array (x3)
- Built in GPS antenna.

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

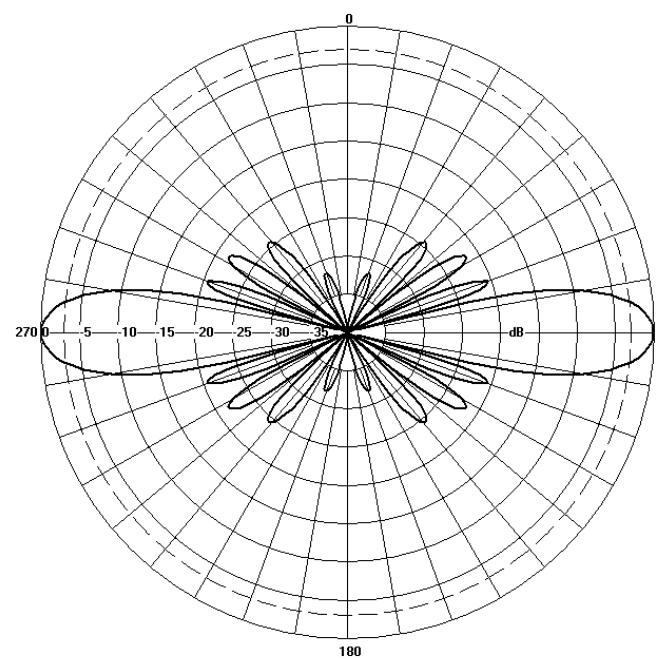
TECHNICAL SPECIFICATION

Electrical Specifications			
Frequency Range		MHz	3300 - 3800MHz
Polarisation		Degree	+/- 45° Slant Linear
Gain	Basta	dBi	8.0±0.5
	Max	dBi	8.5
Azimuth Beamwidth		Degree	360°
Elevation Beamwidth		Degree	12°
Electrical Downtilt		Degree	T0° - T10°
Electrical Downtilt Deviation		Degree<	1°
Impedance		Ohms	50
VSWR		<	1.5
Return Loss		dB>	14
Isolation		dB>	25
Upper Sidelobe Suppression, Peak to 20°		dB>	16
Cross-Polar Discrimination		dB>	12
Maximum Effective Power Per Port		W	50

Representative Pattern Files



Azimuth



Elevation

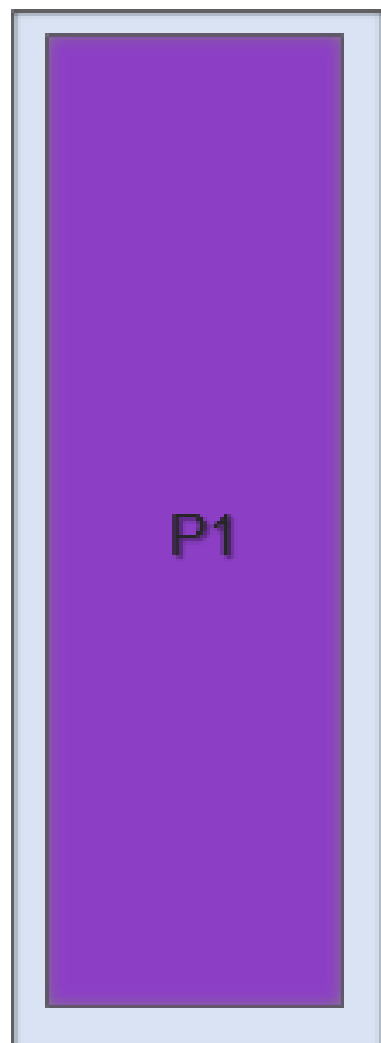
For radiation pattern files, please login at www.alphawireless.com

TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions	mm (in)	600 (23.6) x 125 (4.9) - (L x Ø)
Packing Size (LxWxD)	mm (in)	670 (26.3) x 190 (7.4) x 250 (9.8)
Net Weight (antenna)	kg (lb)	3 (6.6)
Net Weight (mount)	kg (lb)	2 (4.4)
Shipping Weight	kg (lb)	6 (13.2)
Connector Type (Female)	-	4.3-10 and N Type (GPS)
Connector Quantity	-	2 + 1
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	80 (18)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	80 (18)
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	°C (°F)	-40 (-40)
Hot Temperature Survival	°C (°F)	70 (158)

Array Layout and RET Information



Array	Frequency MHz	Ports	MET ID
P1	3300 – 3800	1 – 2	1

Note: Coloured box sizes do not represent antenna sizes.



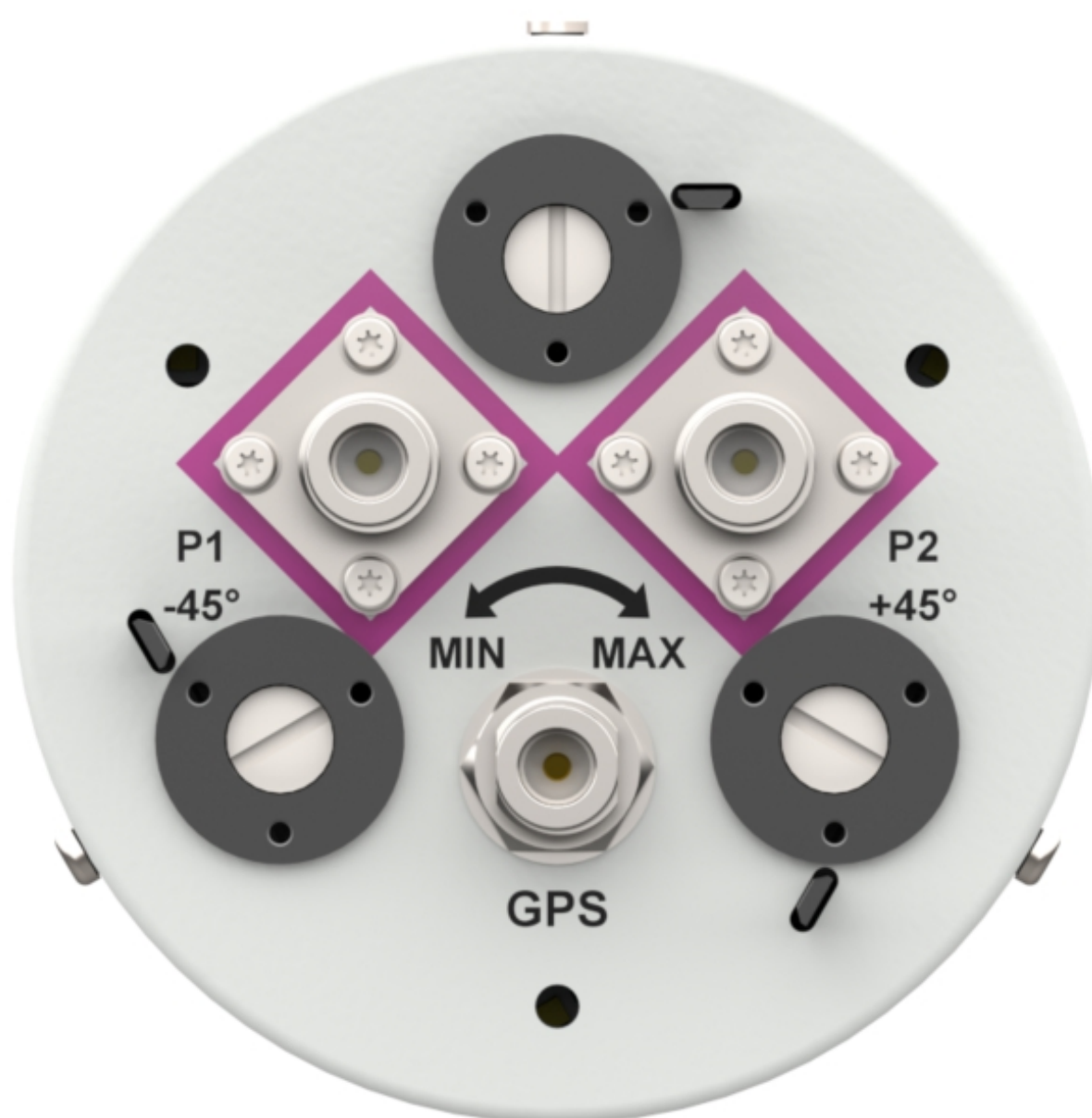
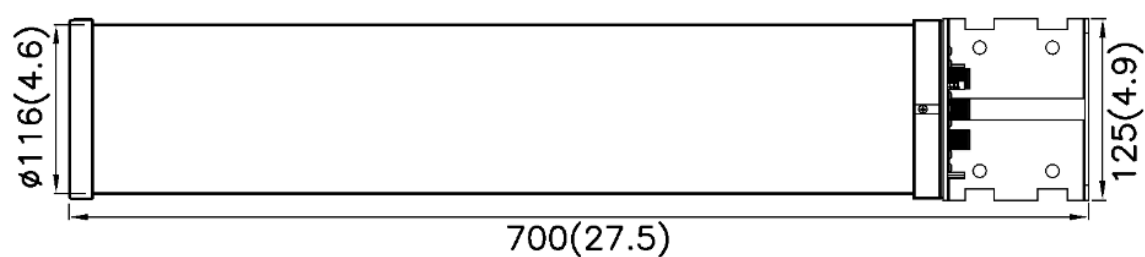
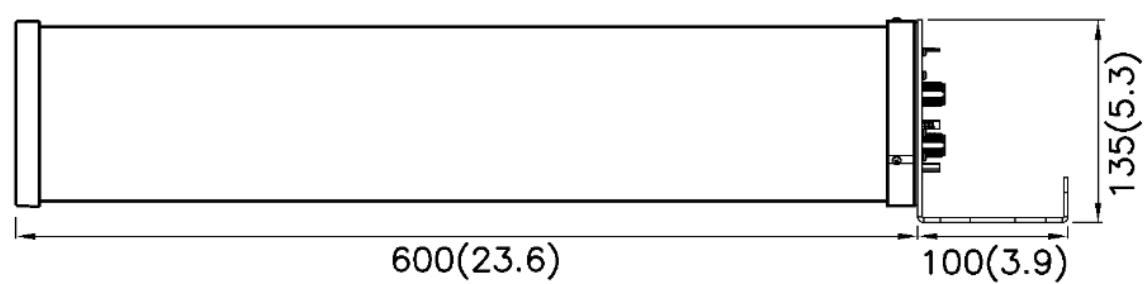
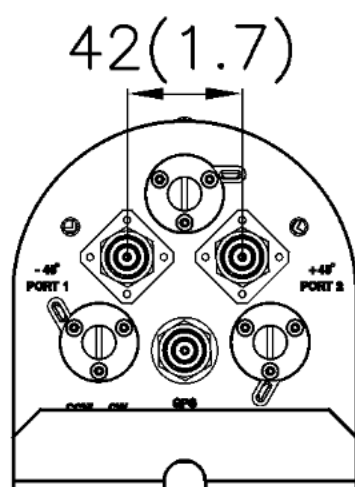
TECHNICAL SPECIFICATION

Mechanical Illustration

GPS Specifications	
RF Electrical Specifications	
Centre Frequency	1575.42MHz +/- 10MHz
Gain	3 dBic @ 90° -2dBic @ 20°
Polarization	Right Hand Circular
Current Draw	7.5 mA @ 3.3VDC (typical)
Low Noise Amplifier Specifications	
Nominal Impedance	50 Ohm
VSWR	1.5:1 (typical) @ 5.0V , 1.8:1 (typical) @ 3.3V
Nominal Gain	@ 3.3VDC: 25dB @ 5VDC: 25.5dB
Voltage	-5 VDC
Mechanical Specifications	
Connector	1 x N Type
Environmental Specifications	
Temperature Range	-40°C to +85°C operating
Humidity	95% max (non condensing)

Mechanical Illustration

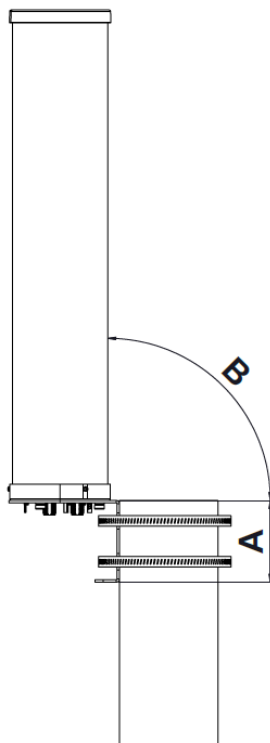
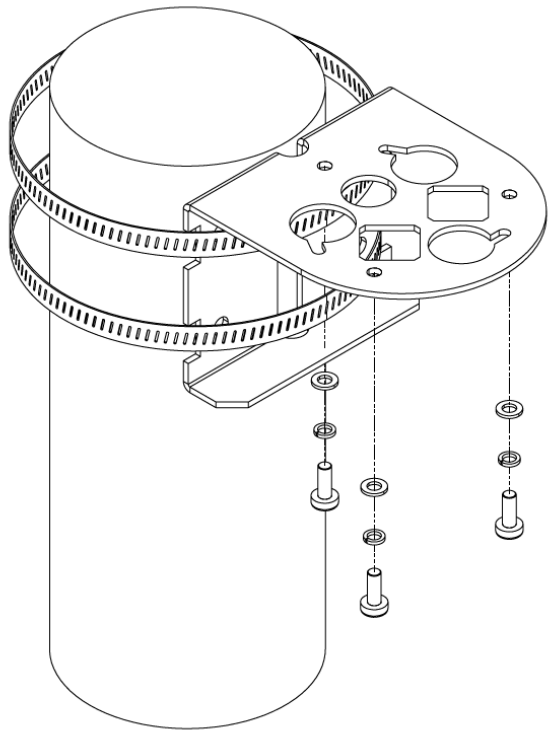
All measurements are in mm (in)





TECHNICAL SPECIFICATION
Mounting Bracket Kit

CL-V-127 (Jubilee Clip 9.5 Stainless Steel 210mm-242mm & Mounting Kit included with Antenna)



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

Ordering Info

Order Code - Antenna

AW3625-M-N-G

Order Code - Accessories

AW1012-2-FM-FM

AW1012-2-FM-NM

AW1014-2-FM-TM

PADC 1000

SADC 2000

AW0326-3-PM-PF

AW0326-10-PM-PF

AW0326-25-PM-PF

AW0326-50-PM-PF

Description

Manual Electrical Tilt (MET) 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")

Portable AISG Controller

Site AISG Controller

AISG Jumper Cable Lengths 3 metres (9' 10")

AISG Jumper Cable Lengths 10 metres (32' 9")

AISG Jumper Cable Lengths 25 metres (82')

AISG Jumper Cable Lengths 50 metres (164')

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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