



DATASHEET

AW3672-M-F-G

Common Name- 4Port, 24", Bands 42, 43 & 48, MET and Integrated GPS Small Cell Omni

3400 - 3800MHz	4	MET	8.5	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This product offers patented 4x4 MIMO capability in a pseudo omni configuration. In addition it offers independent tilt control on each of the six sectors across Bands 42/43 in a small form factor canister.

APPLICATION

Alpha Wireless pseudo omni antenna provides 360° coverage whilst in an ultra-compact Radome. This 4X4 MIMO Omni antenna enables improved Azimuth Pattern Control. The Radiation Pattern section on page 2 describes this in more detail.

The Variable Tilt feature of this Omni antenna enables the user to optimise the Elevation Beam for improved coverage and throughput.

This wide-band antenna was designed for urban environments where low visual impact is important. There are a number of mounting options available making deployments on lamp posts, utility poles, walls and other vertical structures possible.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

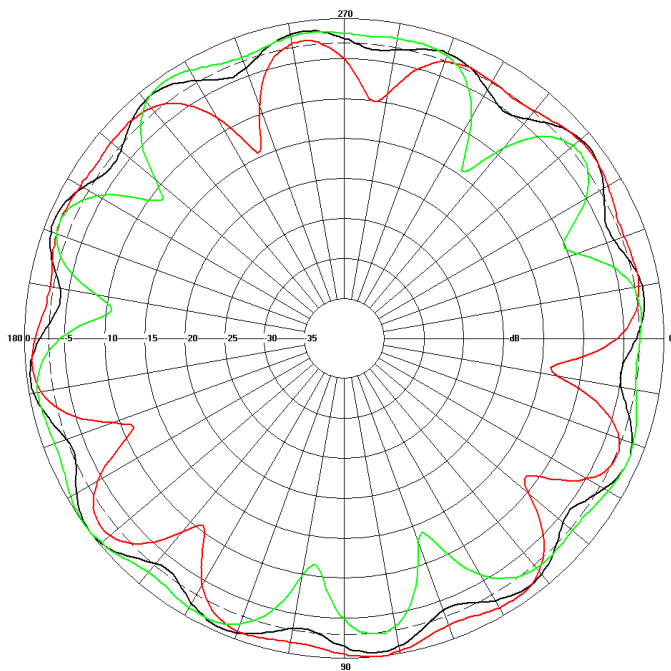
- Wide-band antenna for 3GPP bands 42, 43 & 48.
- Optimized Pseudo omni with reduced azimuth ripple
- Independent RET control for each array (x6)
- Slim monopole design to reduce wind loading
- Integrated GPS

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

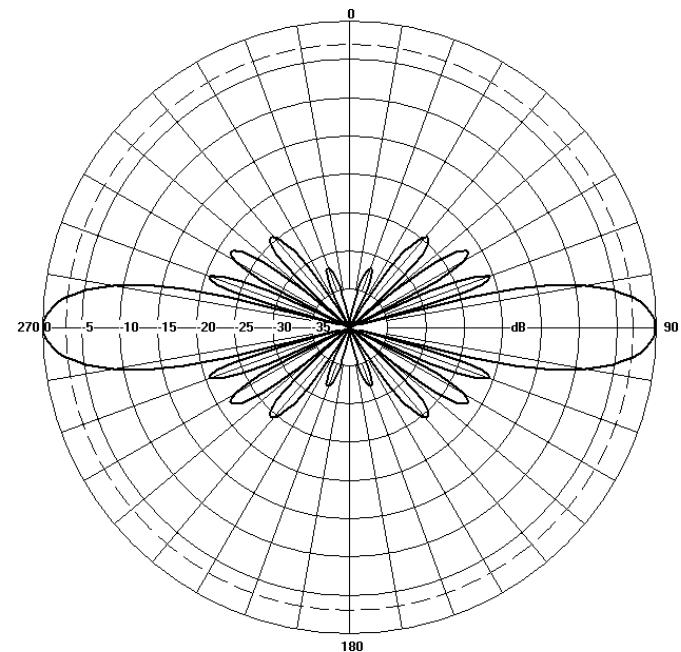
TECHNICAL SPECIFICATION

Electrical Specifications			
Frequency Range	MHz	3400 - 3800MHz	
Polarisation	Degree	+/- 45° Slant Linear	
Gain	Basta	dBi	8.0±0.5
	Max	dBi	8.5
Azimuth Beamwidth	Degree	360°	
Elevation Beamwidth	Degree	11°	
Electrical Downtilt	Degree	T0° - T10°	
Electrical Downtilt Deviation	Degree<	1°	
Impedance	Ohms	50	
VSWR	<	1.5	
Return Loss	dB>	14	
Isolation	dB>	25	
Passive Intermodulation	dBc<	-150	
Upper Sidelobe Suppression, Peak to 20°	dB>	10	
Cross-Polar Discrimination	dB>	7	
Maximum Effective Power Per Port	W	50	

Representative Pattern Files



Azimuth



Elevation

The green curve represents the azimuth pattern of Ports 1 & 2.

The red curve represents the azimuth pattern of Ports 3 & 4.

The black curve represents the composite azimuth pattern, a smooth Omni pattern with minimized nulls.

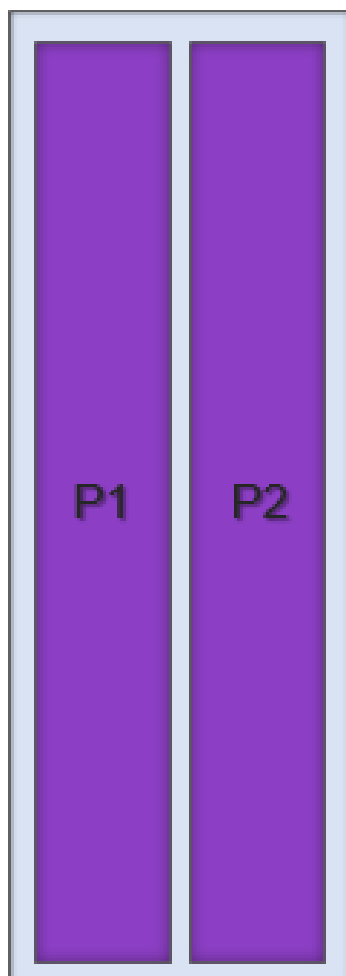
For radiation pattern files, please login at www.alphawireless.com

TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions	mm (in)	600 (23.6) x 220 (8.6) - (L x Ø)
Packing Size (LxWxD)	mm (in)	680 (26.7) x 295 (11.6) x 445 (17.5)
Net Weight (antenna)	kg (lb)	5.9(13)
Net Weight (mount)	kg (lb)	1.6(3.5)
Shipping Weight	kg (lb)	8.6(19)
Connector Type (Female)	-	4.3-10
Connector Quantity	-	4
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	110 (25)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	110 (25)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
Radome Colour	RAL	9010
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



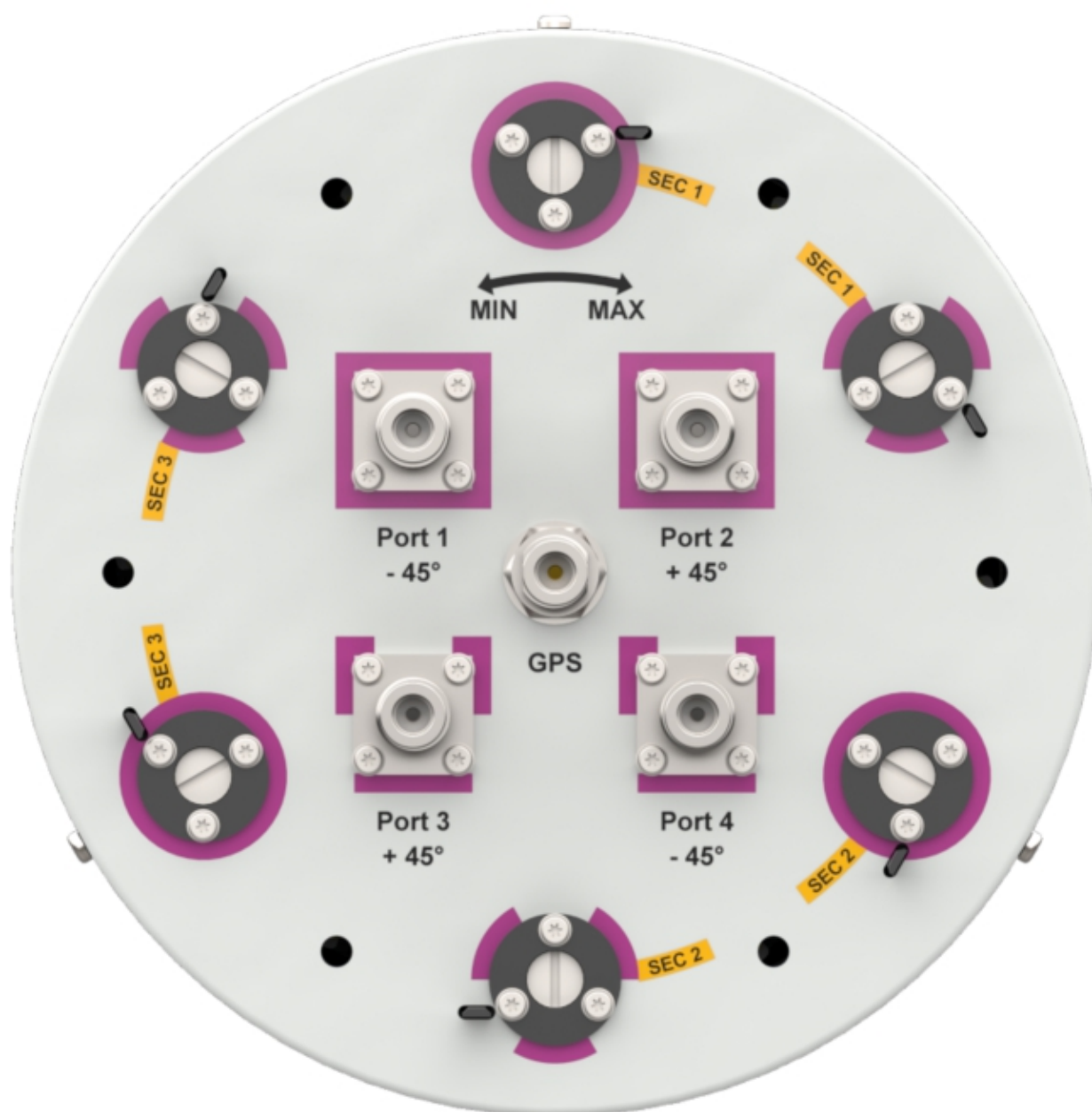
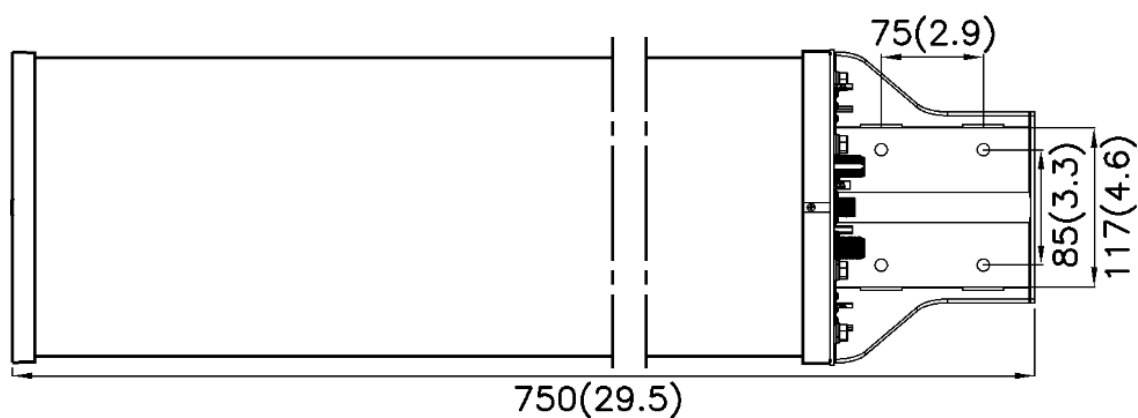
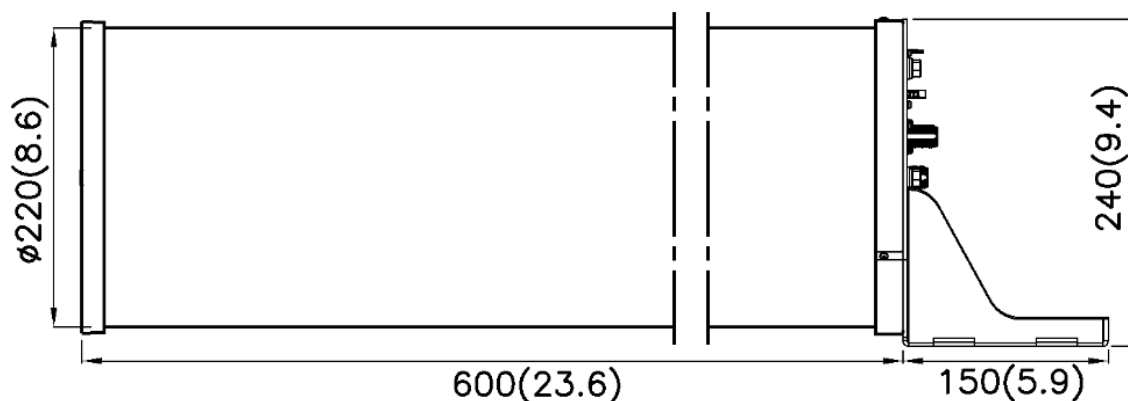
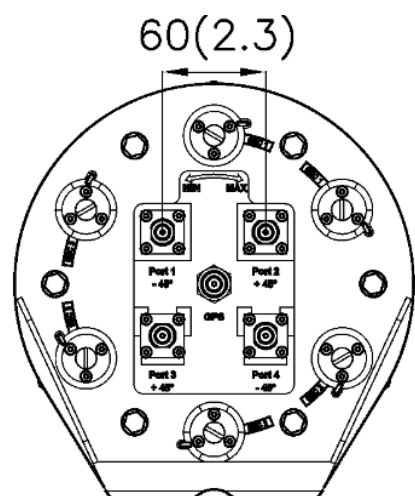
Array	Frequency MHz	Ports	MET ID
R1	3400- 3800	1 – 2	1
R2	3400- 3800	3 – 4	2

Array layout depicts one individual sector.

Note: Coloured box sizes do not represent antenna sizes.

Mechanical Illustration

All measurements are in mm (in)

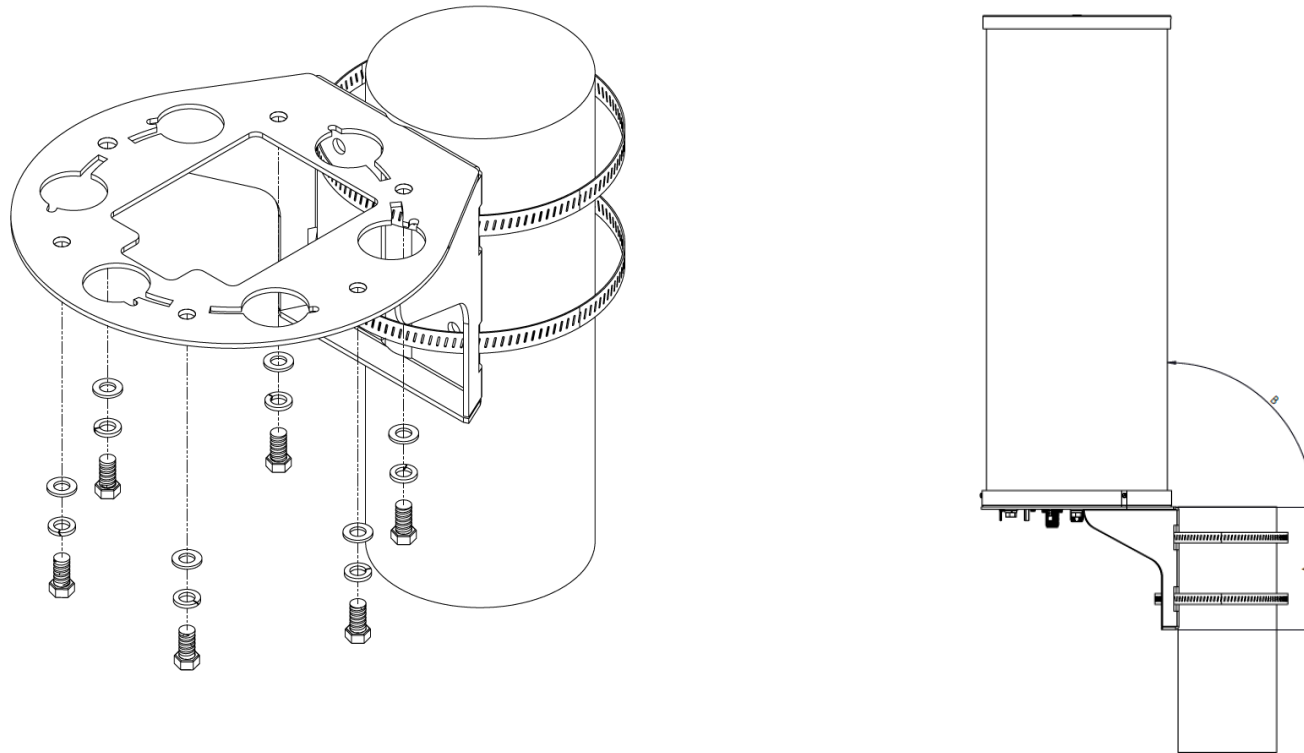




TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-144 (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

Ordering Info

Order Code - Antenna

AW3672-M-F-G

Description

Manual Electrical Tilt (MET) with 4.3-10 Connectors and Integrated GPS

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

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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