



# DATASHEET

## AW3613-S1-G

Common Name- 4Port, 30", B41 4x4 MIMO MET Small Cell Omni

2496-2690MHz	4	MET	8.5	360°
Frequency	Ports	Tilt	Gain	Beamwidth

### PRODUCT INFORMATION

Developed to address Nokia and Airspan B41 4 Port Mini Macro small cell densification program.

### APPLICATION

Traditional mobile networks were designed for voice call continuity and principally relied on macro sites. The seemingly insatiable demand for data requires cell splitting at a much finer level. The AW3613 provides a powerful tool for network RF engineers. It's pseudo-omni pattern eliminates the need for multiple panels to address a coverage gap or capacity augmentation (network densification). 4x4 MIMO ensures the best RF performance and the MET adjustable down tilt fine tunes the coverage for the given location. The AW3613 set a new standard for small cell power and flexibility.

### STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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### FEATURES

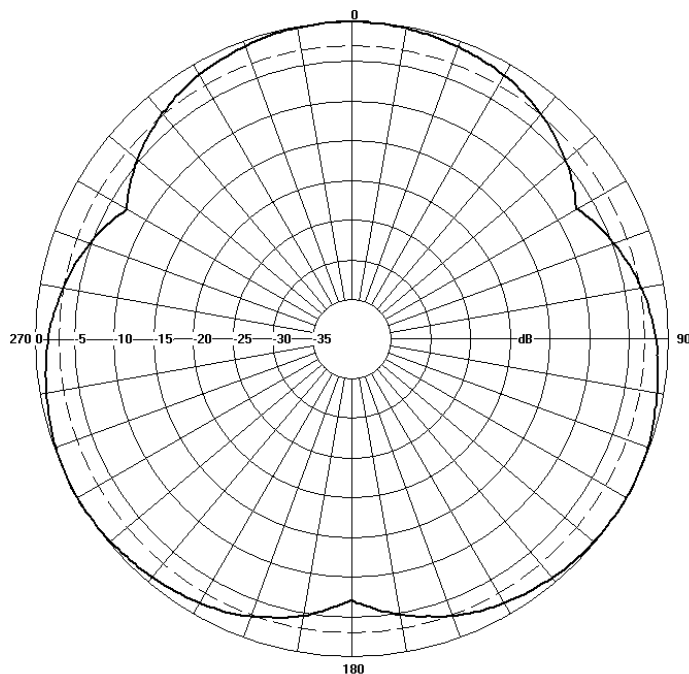
- Optimised for 3GPP band 38 & 41
- 4x4 MIMO for maximum throughput
- Independent tilt control across 6-sectors
- Integrated GPS Antenna

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

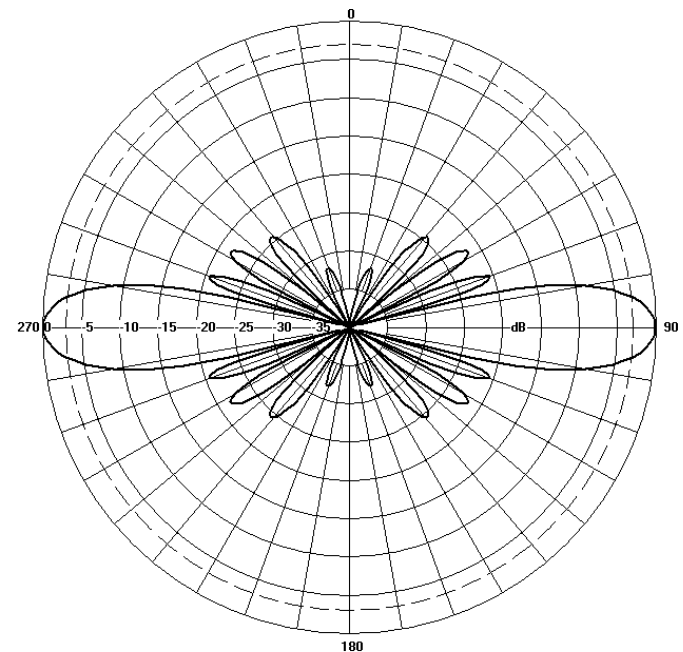
## TECHNICAL SPECIFICATION

Electrical Specifications			
Frequency Range	MHz	2496 - 2690MHz	
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° - T14°	
Electrical Downtilt Deviation	Degree<	1°	
Impedance	Ohms	50	
VSWR	<	1.43	
Return Loss	dB>	15	
Isolation	dB>	28	
Passive Intermodulation	dBc<	-150	
Upper Sidelobe Suppression, Peak to 20°	dB>	18	
Cross-Polar Discrimination	dB>	12	
Maximum Effective Power Per Port	W	50	

## Representative Pattern Files



Azimuth



Elevation

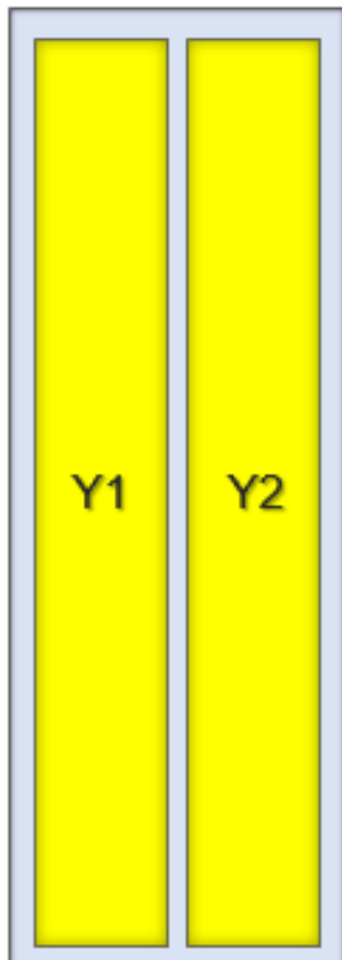
For radiation pattern files, please login at [www.alphawireless.com](http://www.alphawireless.com)

## TECHNICAL SPECIFICATION

## Mechanical Specifications

Dimensions	mm (in)	750 (29.5) x 220 (8.7) - (L x Ø)
Packing Size (LxWxD)	mm (in)	830 (32.7) x 295 (11.6) x 445 (17.5)
Net Weight (antenna)	kg (lb)	7.0 (15.4)
Net Weight (mount)	kg (lb)	3.6 (7.9)
Shipping Weight	kg (lb)	12.0 (26.4)
Connector Type (Female)	-	4.3-10 and N Type (GPS)
Connector Quantity	-	5 (4 x 4.3-10 & 1 x N Type GPS)
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	130 (30)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	130 (30)
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)
IP Rating	-	

## Array Layout and RET Information



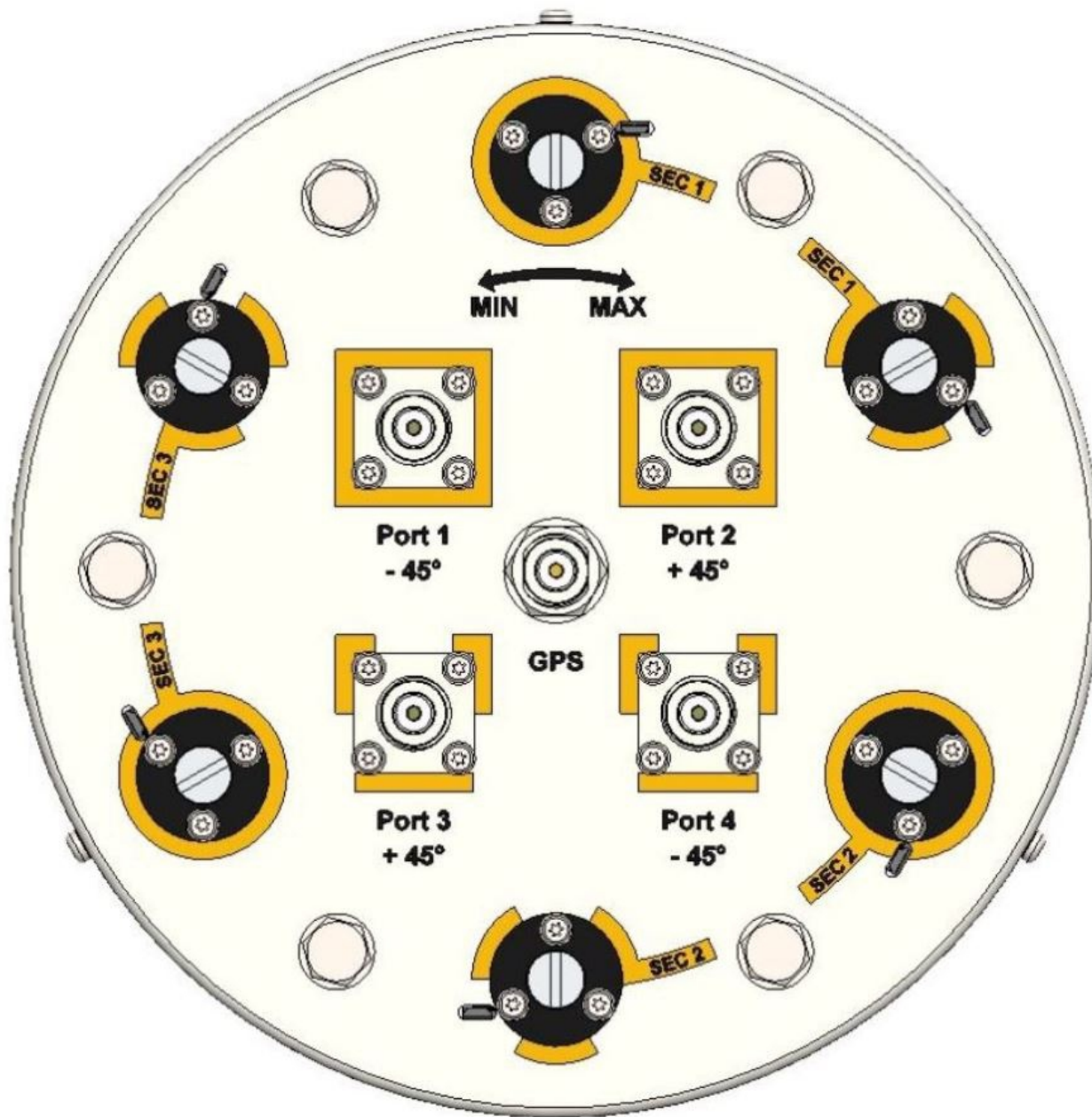
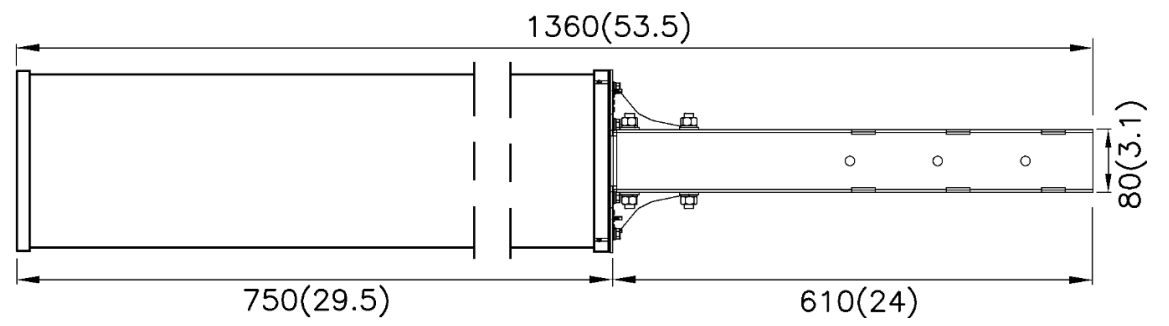
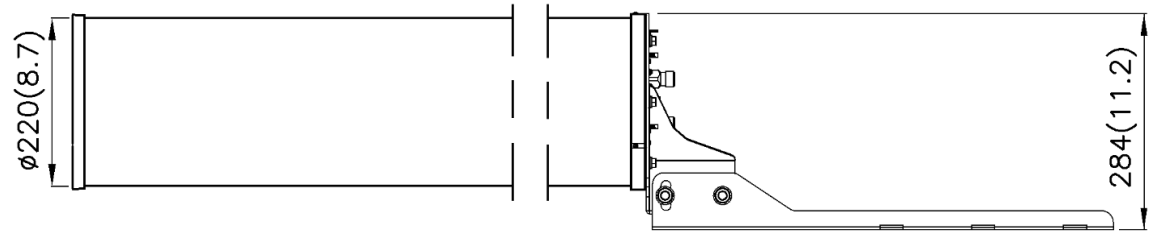
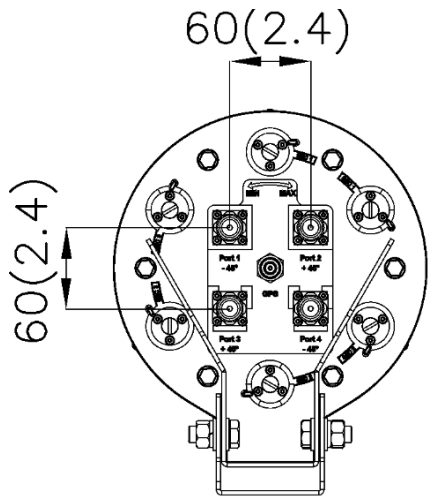
Array	Frequency MHz	Ports	MET ID
Y1	2496 - 2690	1 - 2	1
Y2	2496 - 2690	3 - 4	2

*Array layout depicts one individual sector.*

*Note: Coloured box sizes do not represent antenna sizes.*

Mechanical Illustration

All measurements are in mm (in)



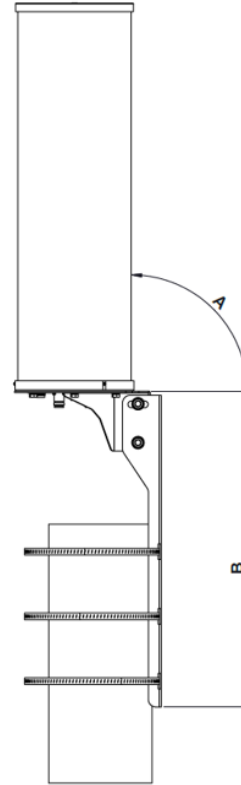
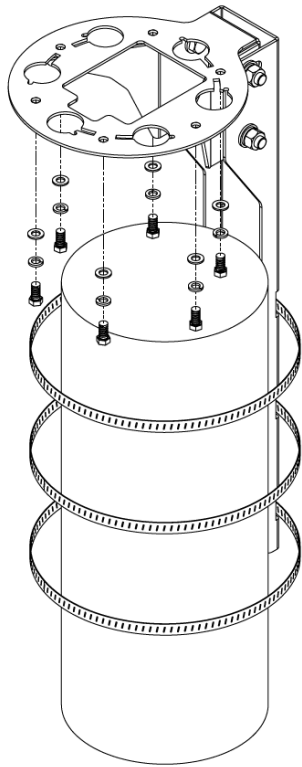


# AW3613-S1-G

## TECHNICAL SPECIFICATION

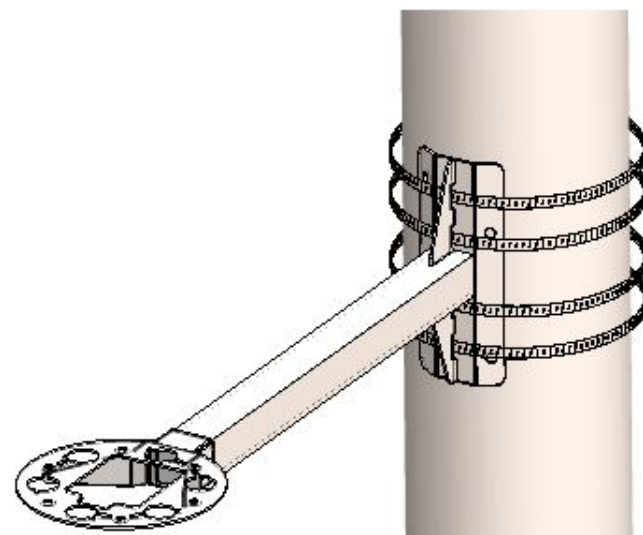
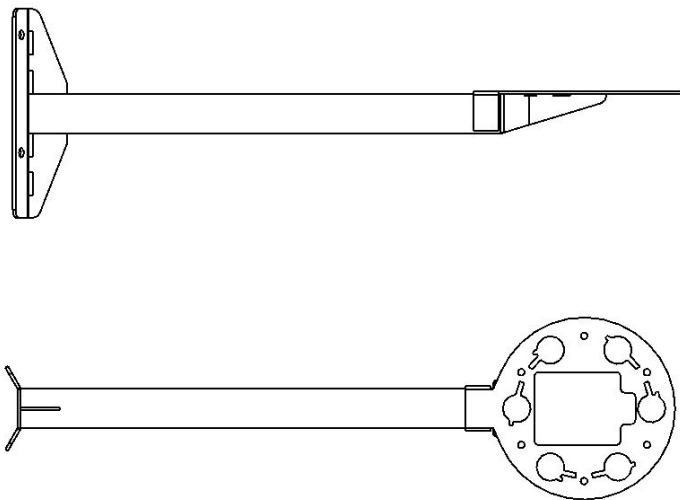
### Mounting Bracket Kit

CL-V-137 (Mounting Kit included with Antenna)



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

CL-V-157 (33" Side Pole Mounting Bracket - Optional)



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



# AW3613-S1-G

## Ordering Info

### Order Code - Antenna

AW3613-S1-G

### Order Code - Accessories

CL-V-157

AW1012-2-FM-FM

AW1012-2-FM-NM

AW1014-2-FM-TM

### Description

Manual Electrical Tilt (MET) with Four 4.3/10, Integrated GPS (CL-V-137 Included)

### Description

33" Side Pole Mounting Bracket - Optional

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

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