



AW3941-T0-F

Common Name 4 Port, 13", Band n77 Omni Canister

3300-4200MHz	4	Fixed	8.5	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This is a four port Pseudo-Omni antenna covering 3300-4200MHz frequency band in an 8.6" diameter canister housing. The antenna enables 4x4 MIMO with uniform coverage around the antenna. This antenna offers a smooth Omnidirectional pattern with minimal nulls.

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.

Designed for high capacity C-band sites where the smallest form factor is important.



STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

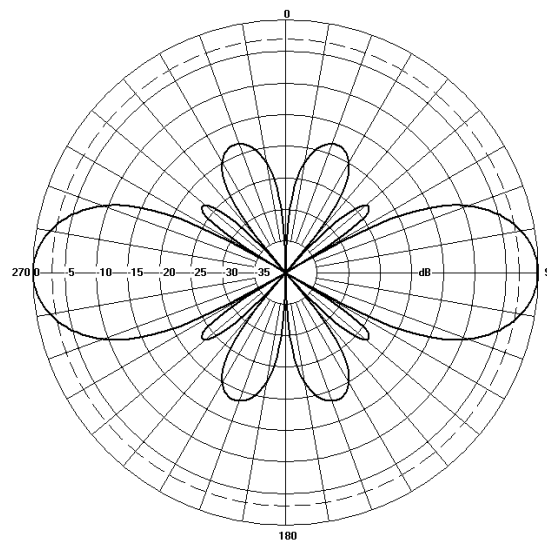
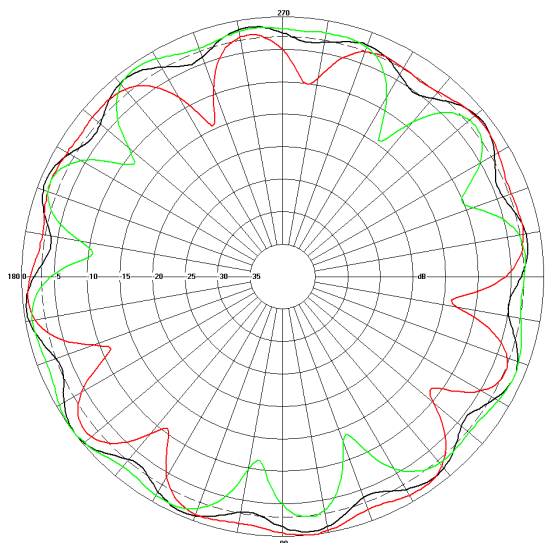
- Covers entire C-band n77 spectrum
- Compact 13" x 8.6" (L x Ø) design - Low visual impact.
- Minimal nulls in the azimuth pattern with patented 4x4 MIMO technology
- 4x4 MIMO for maximum throughput

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

TECHNICAL SPECIFICATION

Electrical Specifications						
Frequency Range		MHz	3300-3600	3600-3800	3800-4000	4000-4200
Polarisation		Degree	+/-45°			
Gain	Basta	dBi	8.0 ±0.5	8.0 ±0.5	7.9 ±0.5	7.9 ±0.5
	Max	dBi	8.5	8.5	8.4	8.4
Azimuth Beamwidth		Degree	360°	360°	360°	360°
Elevation Beamwidth		Degree	23°	23°	23°	23°
Electrical Downtilt		Degree	0°			
Electrical Downtilt Deviation		Degree<	2°			
Impedance		Ohms	50			
VSWR		<	1.5			
Return Loss		dB>	14			
Isolation		dB>	25			
Cross-Polar Discrimination		dB>	10			
Maximum Effective Power Per Port		W	100			

Representative Pattern Files



Azimuth

Elevation

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

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

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

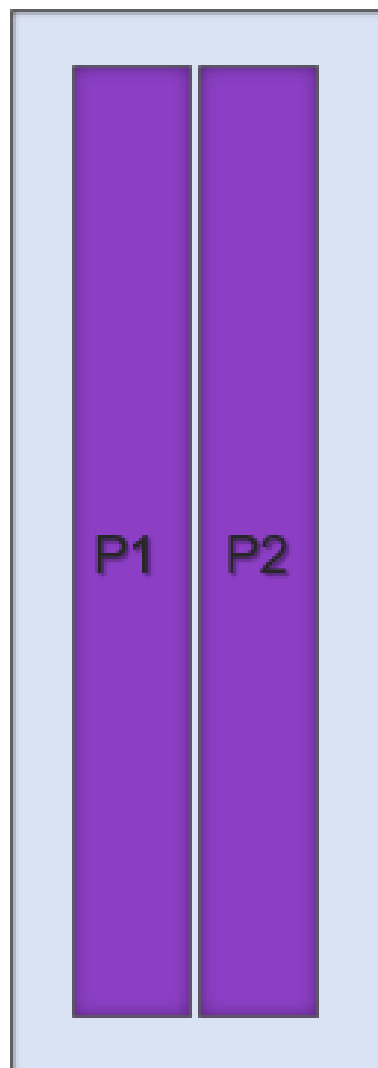
The black curve represents the composite azimuth pattern, a smooth Omni pattern with minimized nulls.

TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions	mm (in)	331 (13) x 220 (8.6) - (L x Ø)
Packing Size (LxWxD)	mm (in)	400 (15.7) x 295 (11.6) x 445 (17.5)
Net Weight (antenna)	kg (lb)	4.5 (9.9)
Net Weight (mount)	kg (lb)	0.5 (1.1)
Shipping Weight	kg (lb)	5 (11)
Connector Type (Female)	-	4.3-10
Connector Position	-	Bottom
Connector Quantity	-	4
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	57 (13)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	57 (13)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	ASA capped ABS
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)

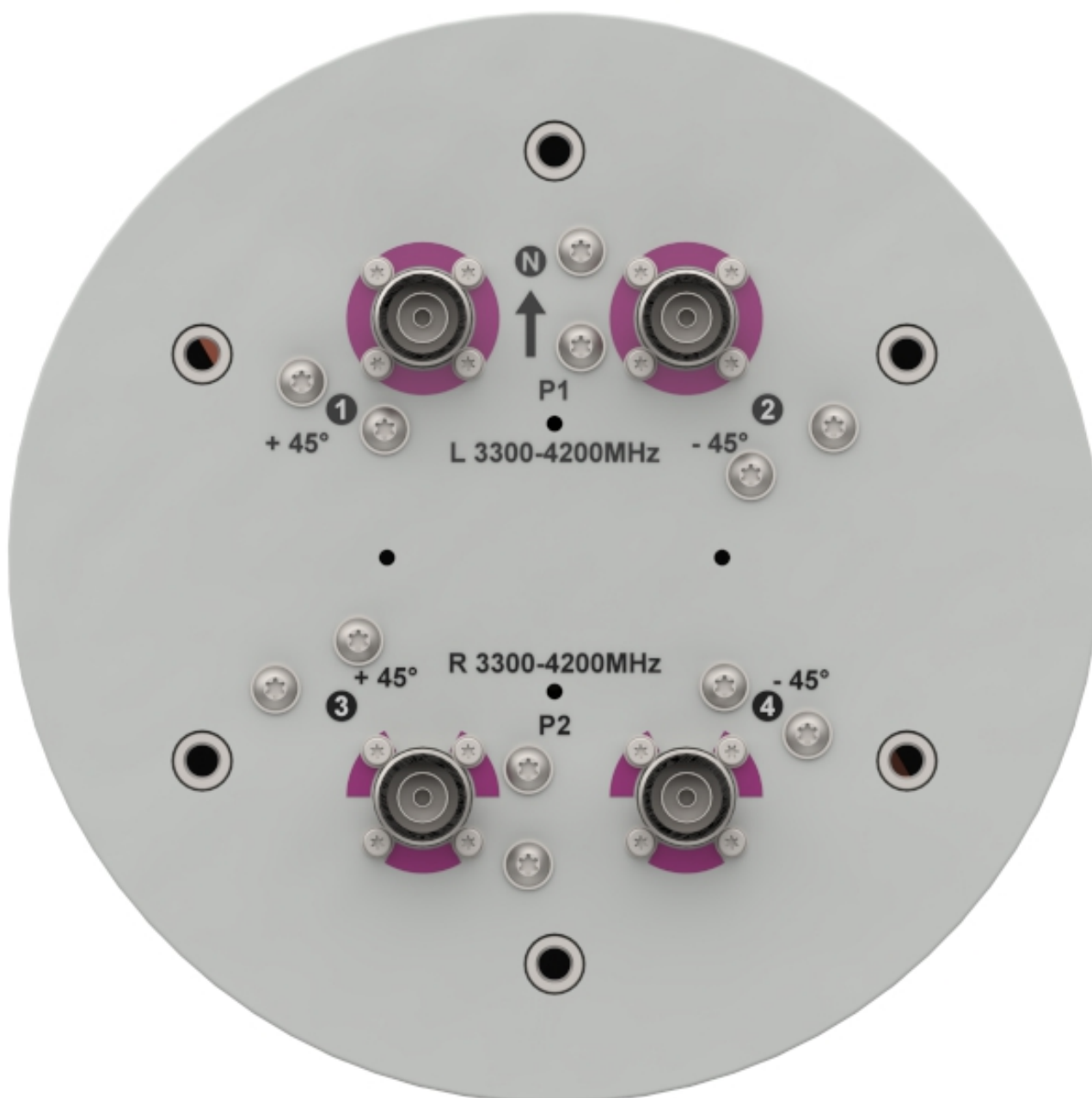
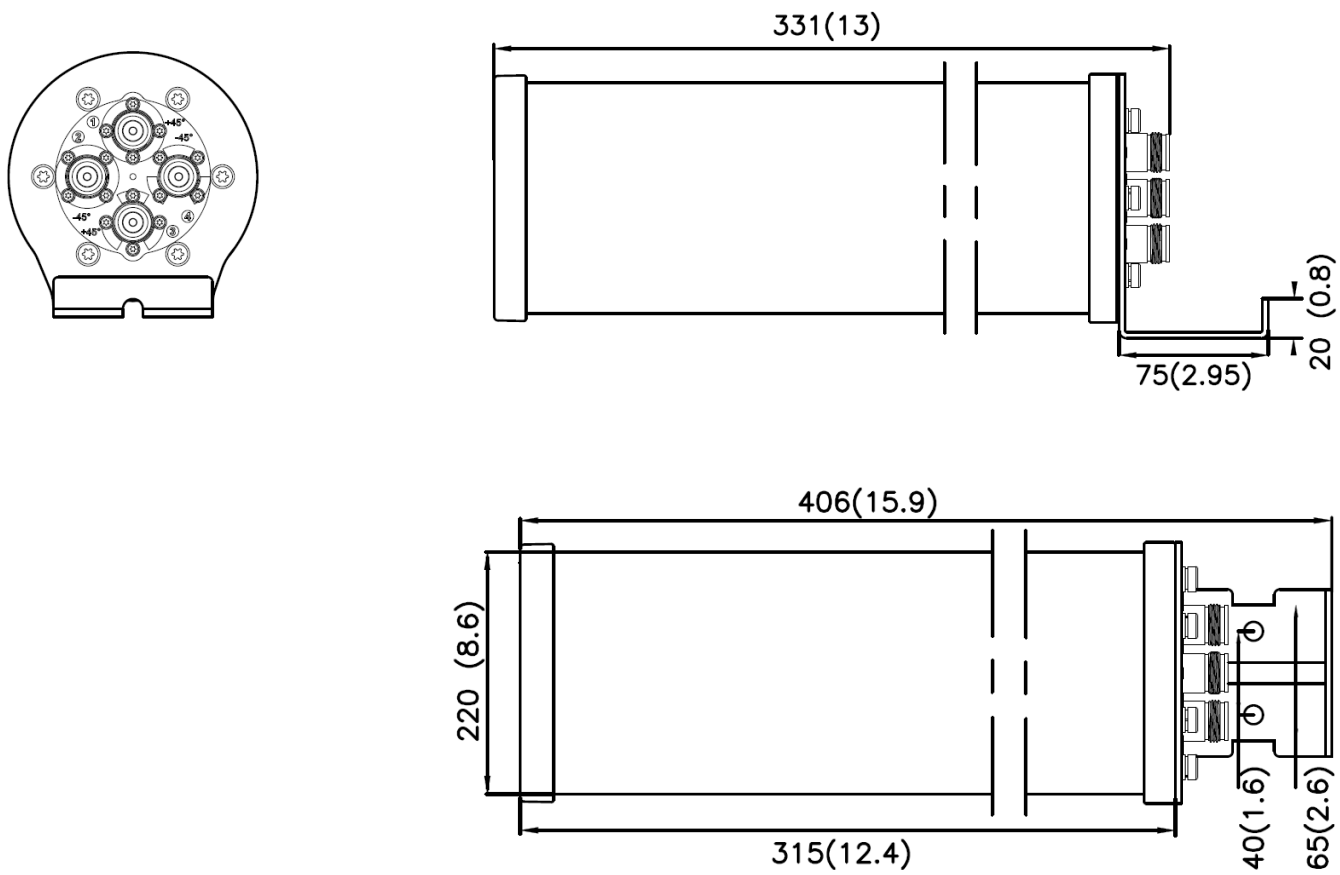
Array Layout and RET Information



Array	Frequency MHz	Ports
P1	3300 - 4200	1 - 2
P2	3300 - 4200	3 - 4

Note: Coloured box sizes do not represent antenna sizes.

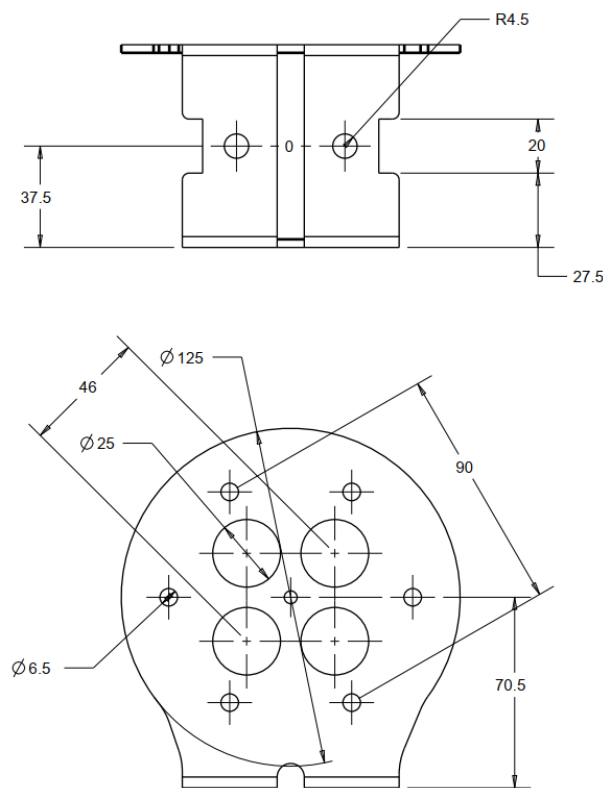
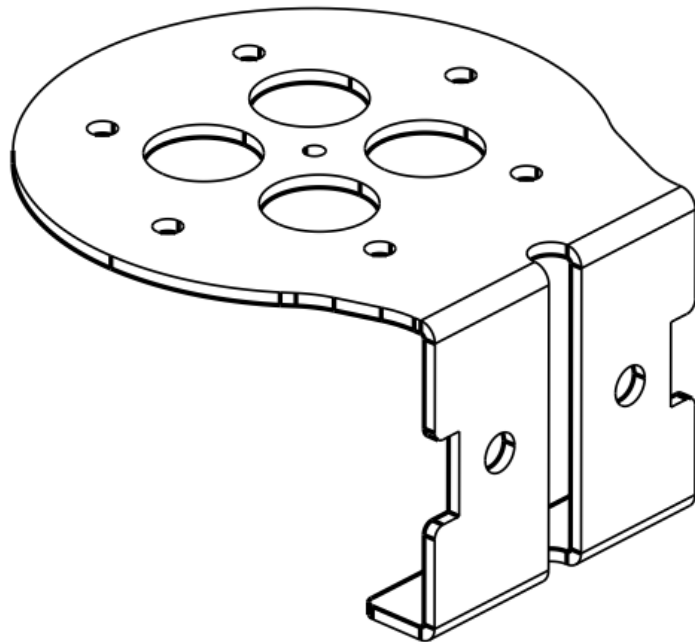
Mechanical Illustration



TECHNICAL SPECIFICATION

Mounting Bracket Kit

3 inch Bracket description



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

Ordering Info

Order Code - Antenna

AW3941-T0-F

Order Code - Accessories

AW1012-2-FM-FM

AW1012-2-FM-NM

AW1014-2-FM-TM

Description

Zero degrees Fixed 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")

Enquiries

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