



# AW3925-T0-F

**Common Name** 2 Port, Low Band, High Band Endpoint Omni

698-960MHz	2	Fixed	2	360°
3400-3800MHz	2	Fixed	6	360°
Frequency	Ports	Tilt	Gain	Beamwidth

## PRODUCT INFORMATION

This 2 Port omnidirectional endpoint antenna provides a single platform for 2x2 MIMO support in Low Band 698-960 MHz (including n78) and 3400-3800 MHz (including n48). The Low Band and High Band ports are diplexed. This antenna has a 360° beamwidth which does not require alignment to the access point. The antenna offers predictable performance across both bands, uniform gain and minimum azimuth pattern ripple.

## APPLICATION

Alpha Wireless end point antennas provide wireless network operators the highest performance and quality. Endpoint antennas are used with end devices to provide a reliable wireless link back to the access point. These multiband antennas are designed for optimal radiation patterns in each band improving overall network performance.

## STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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## FEATURES

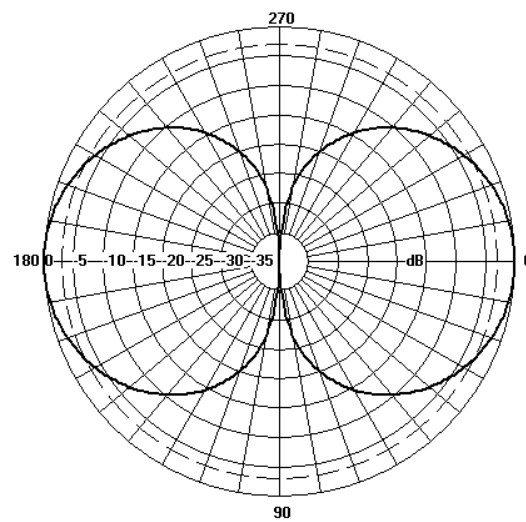
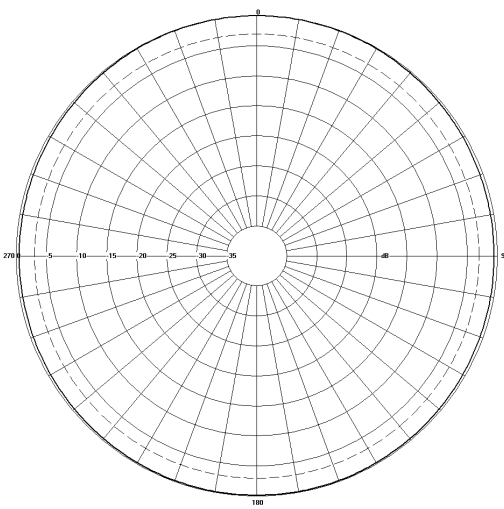
- Dual-band end point antenna with 2 Ports covering 698-960MHz/3400-3800MHz
- Low Band and High Band Ports are diplexed
- Includes integrated GPS LNA antenna with N-type connector
- Provides 2x2 MIMO compatible with public and private LTE and 5G networks using the 700/800/900MHz and 3.5GHz frequency bands
- Supports NR bands n48 and n78
- Minimum azimuth ripple and stable performance at all frequencies
- Compact dimensions no bigger than existing pole-mounted utility equipment

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

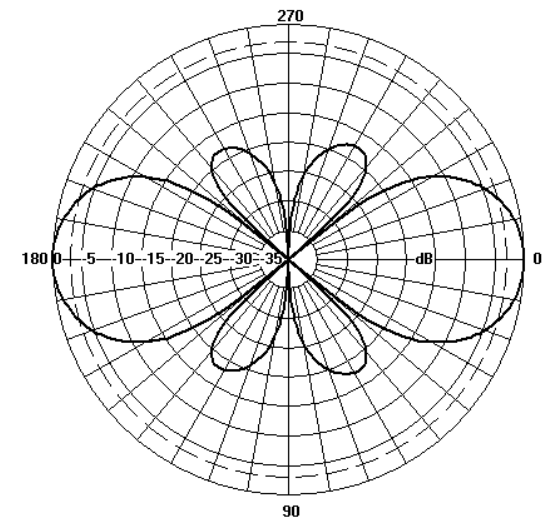
## TECHNICAL SPECIFICATION

Electrical Specifications								
Frequency Range		MHz	698-790	790-890	890-960	3400-3500	3500-3700	3700-3800
Polarisation		Degree	Vertical Pol 1 and 2			+/- 45° Slant Linear		
Gain	Basta	dBi	1.5±0.5	1.5±0.5	1.5±0.5	5.8±0.5	6.0±0.5	6.0±0.5
	Max	dBi	2.0	2.0	2.0	6.3	6.5	6.5
Azimuth Beamwidth		Degree	360°	360	360°	360°	360°	360°
Elevation Beamwidth		Degree	75°	84°	84°	23°	22°	21°
Electrical Downtilt		Degree	T0°	T0°	T0°	T0°	T0°	T0°
Electrical Downtilt Deviation		Degree<	5°	5°	5°	2°	2°	2°
Impedance		Ohms	50					
VSWR		<	2.0			1.5		
Return Loss		dB>	9.5			14		
Isolation		dB>	15	15	15	25	25	25
Cross-Polar Discrimination (0°)		dB>	20	20	20	10	10	10
Maximum Effective Power Per Port		W	80	80	80	50	50	50

## Representative Pattern Files



Low Band



High Band

Azimuth

Elevation

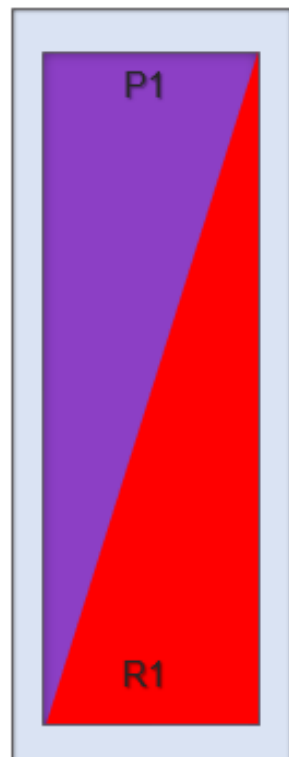
For radiation pattern files, please login at [www.alphawireless.com](http://www.alphawireless.com)

## TECHNICAL SPECIFICATION

### Mechanical Specifications

Dimensions	mm (in)	800 (31.5) x 77 (3.0) Ø
Net Weight (antenna)	kg (lb)	3 (6.6)
Net Weight (mount)	kg (lb)	1 (2.2)
Shipping Weight	kg (lb)	4 (8.8)
Connector Type (Female)	-	4.3-10 (RF) N type (GPS)
Connector Position	-	Bottom
Connector Quantity	-	2 (Diplexed RF) 1 (GPS)
Windload Frontal (at Rated Wind Speed: 150km/h)	N	60 (13.4)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	ASA
Radome Colour	RAL	7035 (light grey)
Product Compliance Environmental	-	RoHS
Lightning Protection	-	DC Grounded
Cold Temperature Survival	Celsius (Fahrenheit)	-40 (-40)
Hot Temperature Survival	Celsius (Fahrenheit)	70 (158)

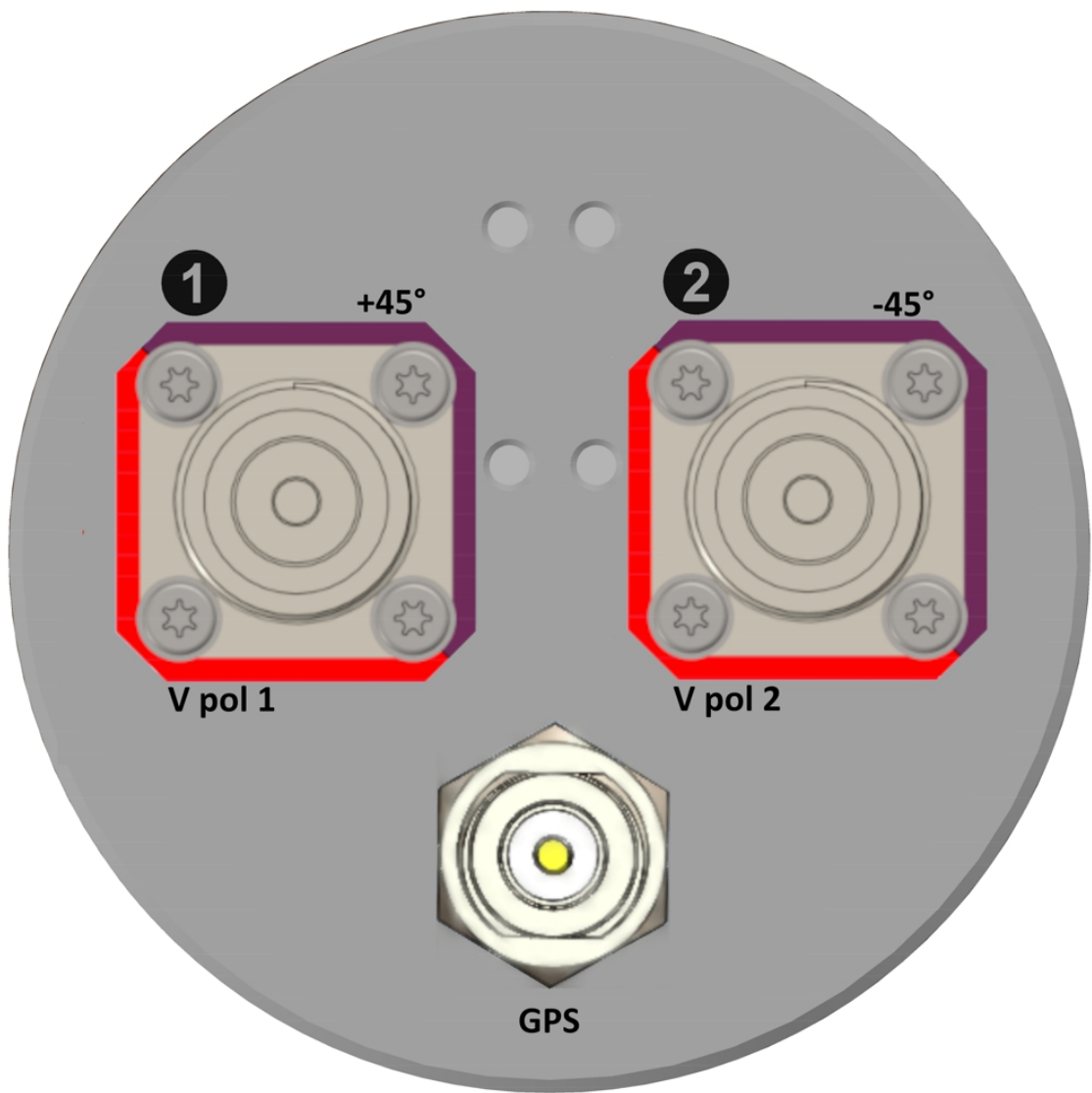
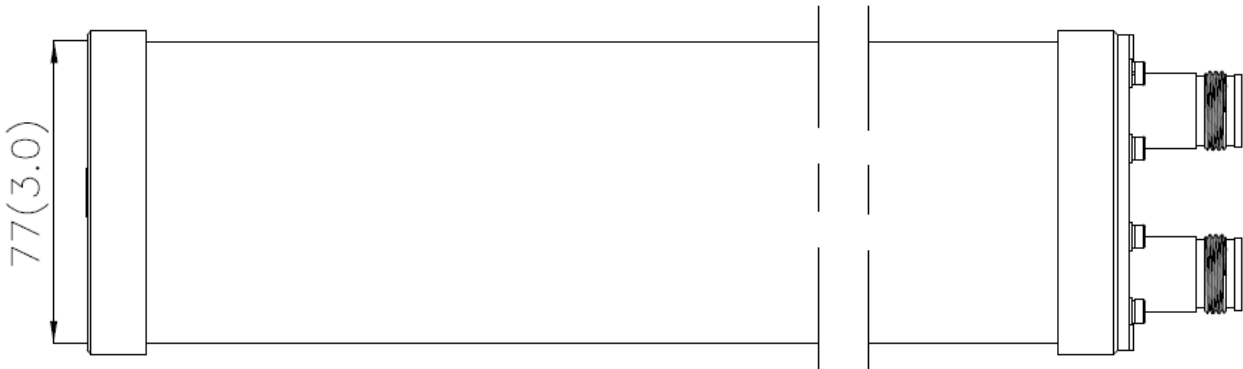
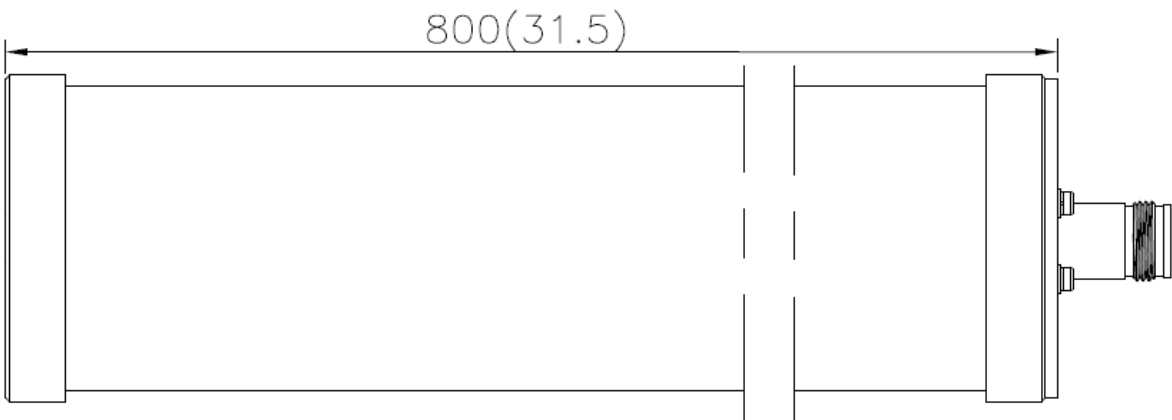
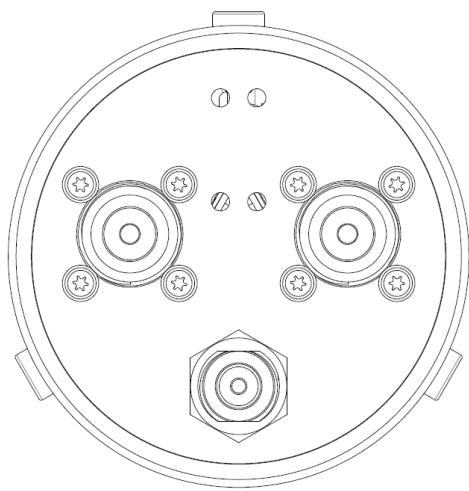
### Array Layout and RET Information



Array	Frequency MHz	Ports
R1	698 - 960	1 – 2
P1	3400-3800	1 – 2

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

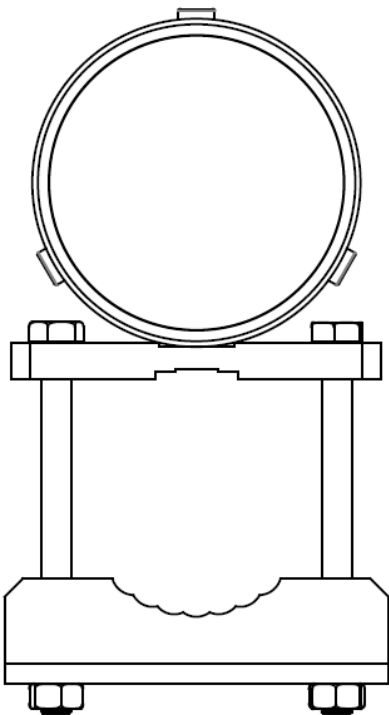
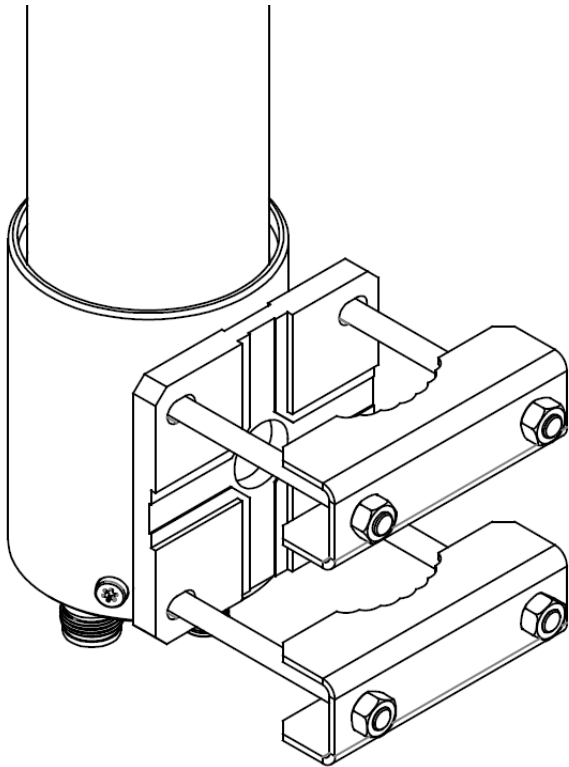
Mechanical Illustration



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-200 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
N/A	Stainless Steel	50mm-65mm (2" to 2.5")

TECHNICAL SPECIFICATION

Ordering Info

Order Code - Antenna

AW3925-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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