



## AW3872-T0-F

**Common Name** 10 Port (6P/4P) 24" Multiband Omni Canister

1695-2690MHz	6	Fixed	8	360°
3400-3800MHz	4	Fixed	5	360°
Frequency	Ports	Tilt	Gain	Beamwidth

## PRODUCT INFORMATION

This product was designed to offer 6 ports across Mid-band as well as 4 ports across CBRS / C Band in a 2 foot Mini Macro housing.

## APPLICATION

Alpha Wireless multi-band small cell provides omni-directional coverage whilst in an ultra-compact radome design. The antenna is designed to be installed in an 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.

## STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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## FEATURES

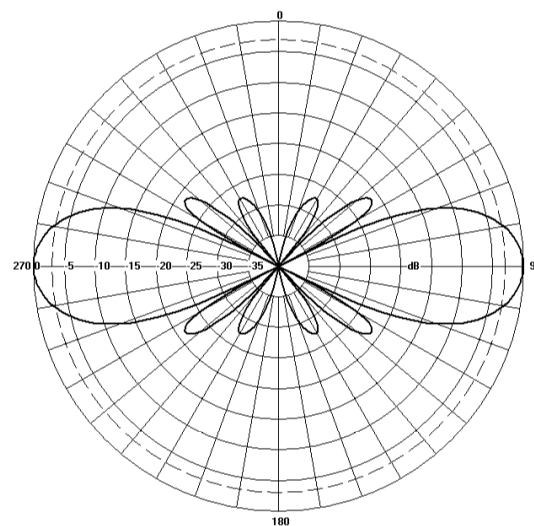
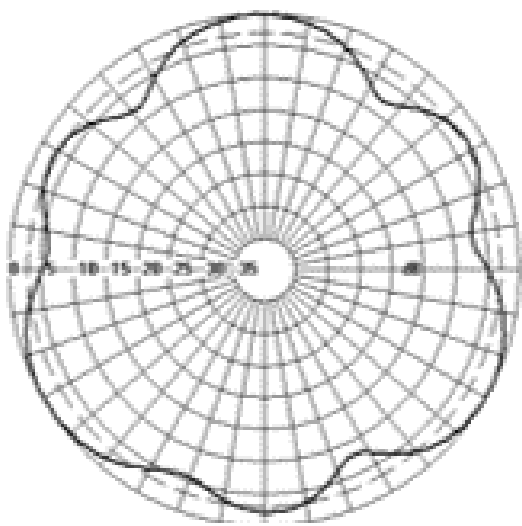
- High port count enabling multiple operators
- Compact design - Low visual impact.
- 6 ports operating across 1695 - 2690MHz
- 4 ports operating across 3400 - 3800MHz

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

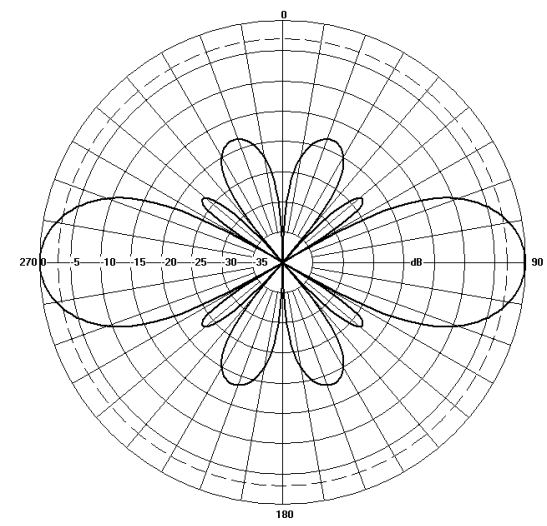
## TECHNICAL SPECIFICATION

Electrical Specifications								
Frequency Range	MHz	1695-1995	1920-2170	2170-2500	2500-2690	3400-3500	3500-3800	
Polarisation	Degree	+/- 45° Slant Linear						
Gain	Basta	dBi	8.1±0.5	7.5±0.5	7.7±0.5	7.9±0.5	4.5±0.5	4.5±0.5
	Max	dBi	8.6	8.0	8.2	8.4	5.0	5.0
Azimuth Beamwidth	Degree	360°	360°	360°	360°	360°	360°	360°
Elevation Beamwidth	Degree	19°	17°	15°	13°	30°	28°	
Electrical Downtilt	Degree	T0°	T0°	T0°	T0°	T0°	T0°	
Electrical Downtilt Deviation	Degree<	1.5°	1.5°	1.5°	1.5°	3°	3°	
Impedance	Ohms	50						
VSWR	<	1.5						
Return Loss	dB>	14						
Isolation	dB>							
Intraband Isolation (same band/same array)	dB>	25	25	25	25	25	25	
Network to Network Isolation (same band different array)	dB>	28	28	28	28	28	28	
Interband Isolation (different band and array)	dB	28	28	28	28	28	28	
Passive Intermodulation	dBc<	-150	-150	-150	-150	N/A	N/A	
Cross-Polar Discrimination (0°)	dB>	10	10	10	10	10	10	
Maximum Effective Power Per Port	W	250	250	250	250	50	50	

## Representative Pattern Files



1695 - 2690MHz



3400 - 3800MHz

Azimuth

Elevation

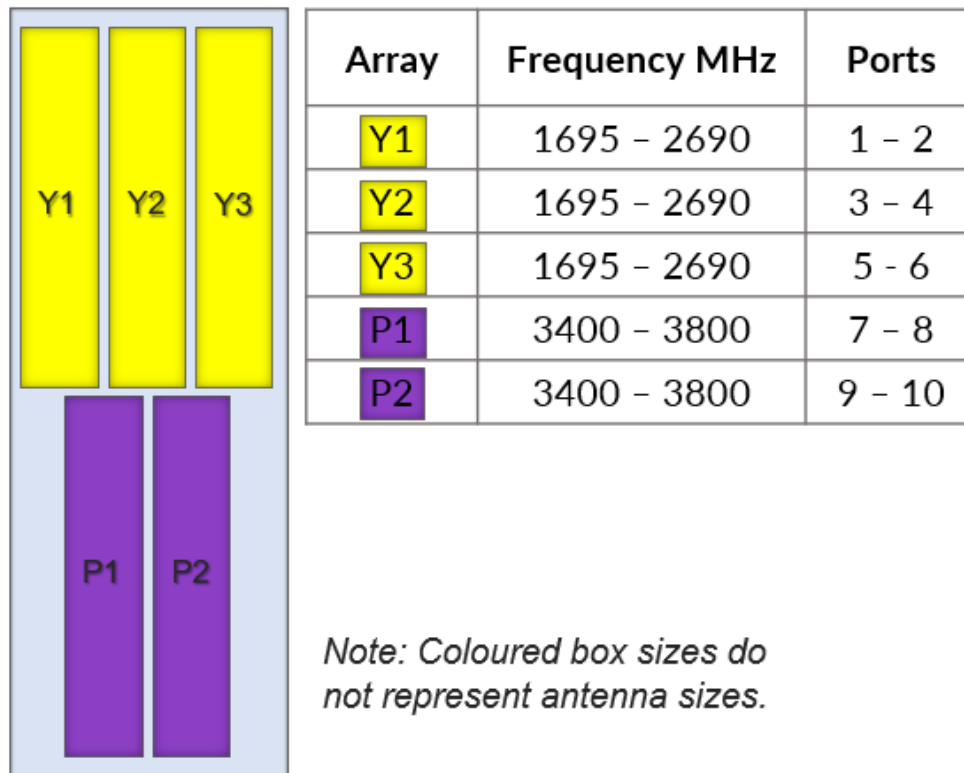
For radiation pattern files, please login at [www.alphawireless.com](http://www.alphawireless.com)

## TECHNICAL SPECIFICATION

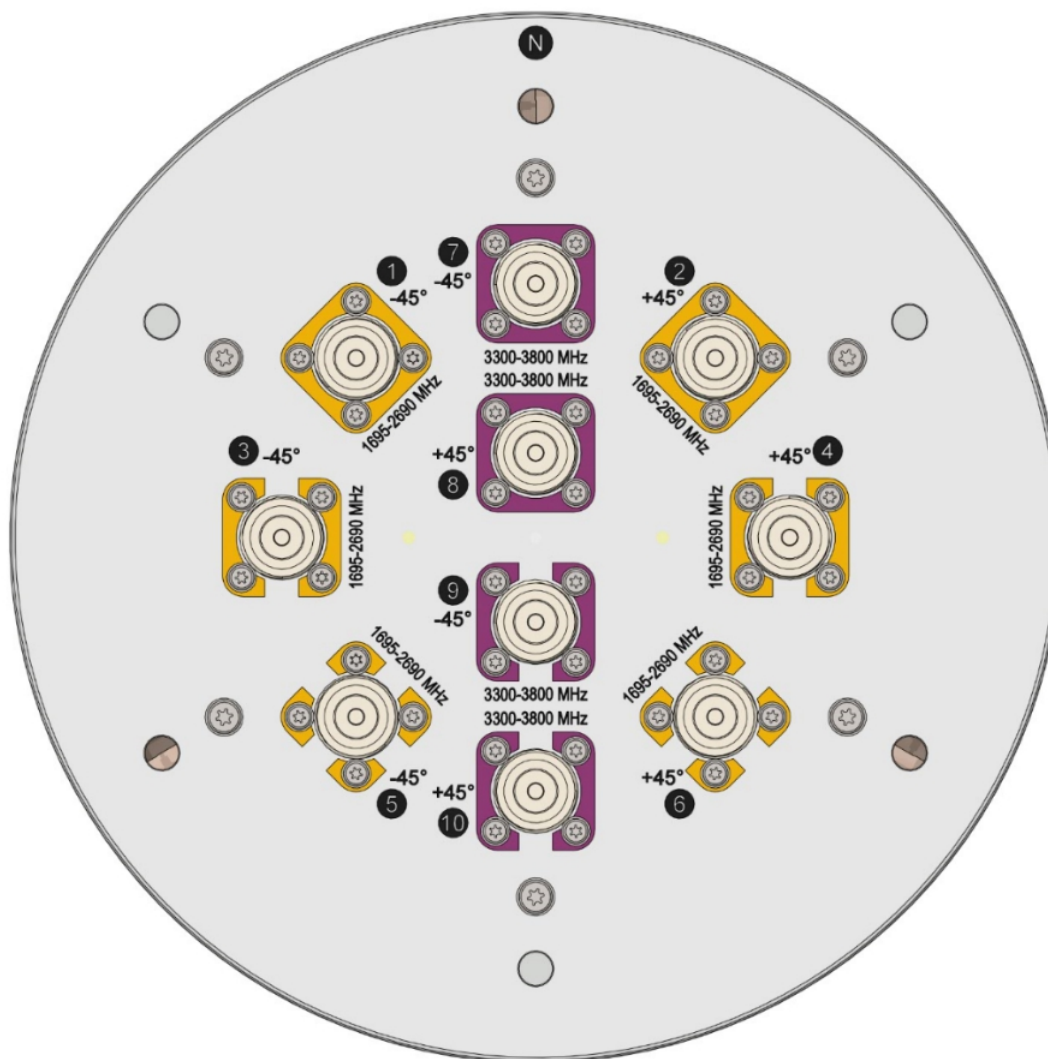
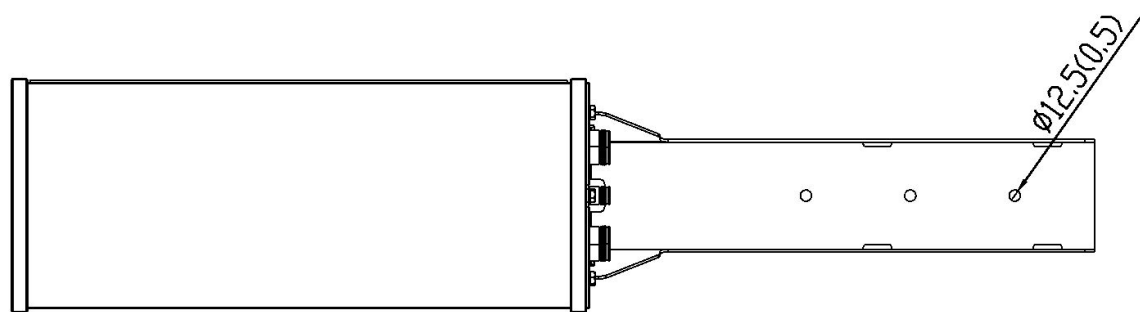
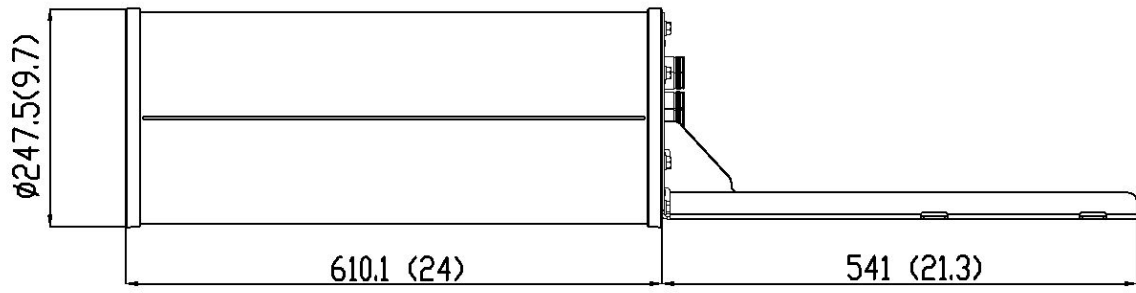
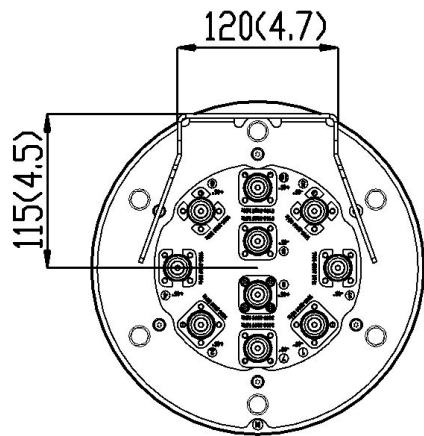
### Mechanical Specifications

Dimensions	mm (in)	610 (24) x 248 (9.8)
Volume	ft <sup>3</sup> (l)	2.32 (65.6)
Packing Size (LxWxD)	mm (in)	819 (32.2) x 350 (13.7) x 310 (12.2)
Net Weight (antenna)	kg (lb)	5 (11)
Net Weight (mount)	kg (lb)	3 (6.6)
Shipping Weight	kg (lb)	9.5 (21)
Connector Type (Female)	-	4.3-10
Connector Position	-	Bottom
Connector Quantity	-	10 (6P Mid Band, 4P CBRS/C Band)
Windload Frontal (at Rated Wind Speed: 150km/h)	N	120 (27)
Windload Lateral (at Rated Wind Speed: 150km/h)	N	120 (27)
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



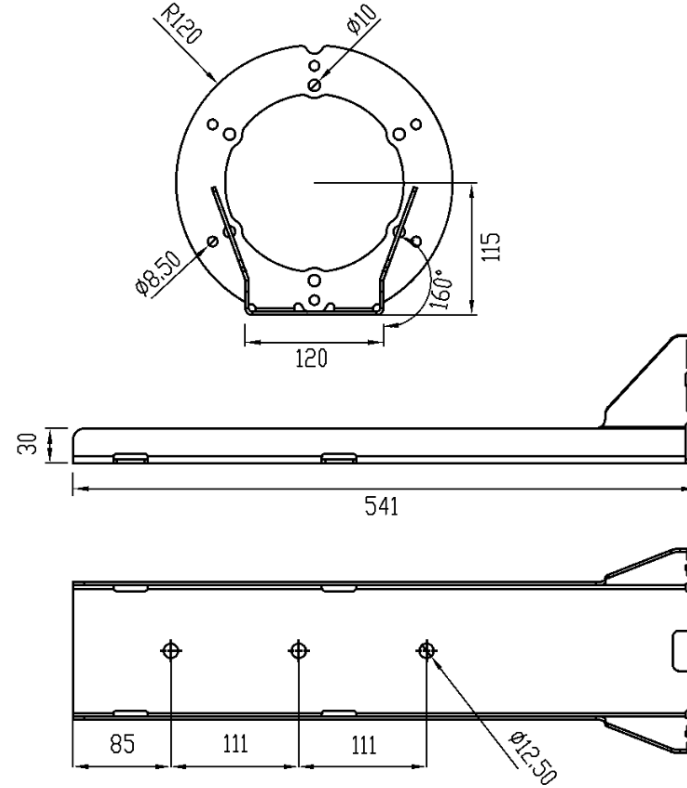
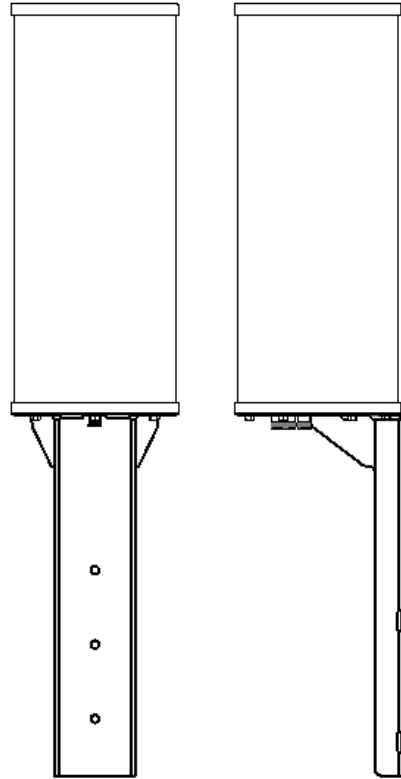
## Mechanical Illustration



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-155 (210mm-242mm Quick Release Hose Strap & Mounting Kit included with Antenna)



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

Ordering Info

Order Code - Antenna

AW3872-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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