



AW3768-T0-F

Common Name 10 Port, (6P/2P/2P), 24", Omni 360° Canister

1695-2690MHz	6	Fixed	8	360°
3400-3800MHz	2	Fixed	5	360°
5150-5925MHz	2	Fixed	5	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This product was designed to offer Mid-band as well as 3.5GHz and 5.5GHz functionality in a 2 foot Mini Macro housing for multi-operator applications. This design is intended to offer six ports on Mid Band, two ports on CBRS and two ports on LAA.

APPLICATION

Alpha Wireless multi-band small cell provides omni-directional coverage whilst in an ultra-compact radome design. This very special antenna provides 2G to 5G ports with LAA for ultimate data throughput. 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

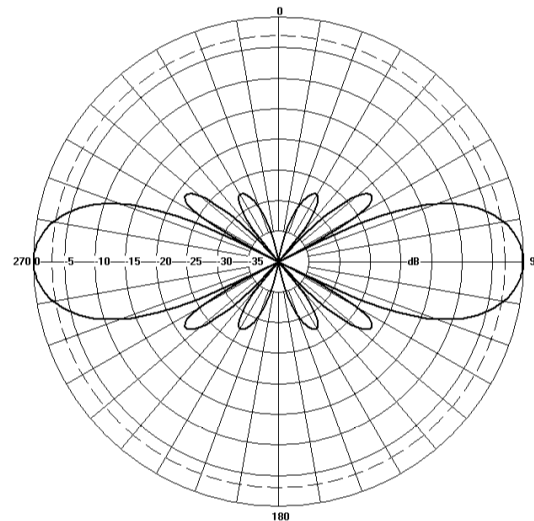
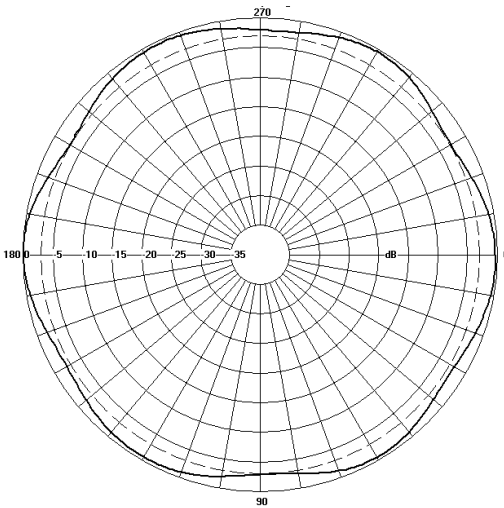
- High port count enabling multiple operators
- Compact design - Low visual impact.
- Manufactured in Ireland.

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

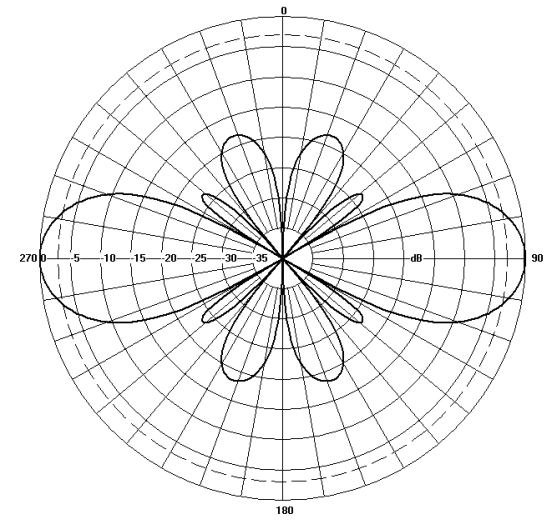
TECHNICAL SPECIFICATION

Electrical Specifications								
Frequency Range	MHz	1695-1995	1920-2170	2170-2500	2500-2690	3400-3800	5150-5925	
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°	23°	
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>	25	25	25	25	22	22	
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	1	

Representative Pattern Files



1695 - 2690MHz



3.5GHz / 5.5GHz

Azimuth

Elevation

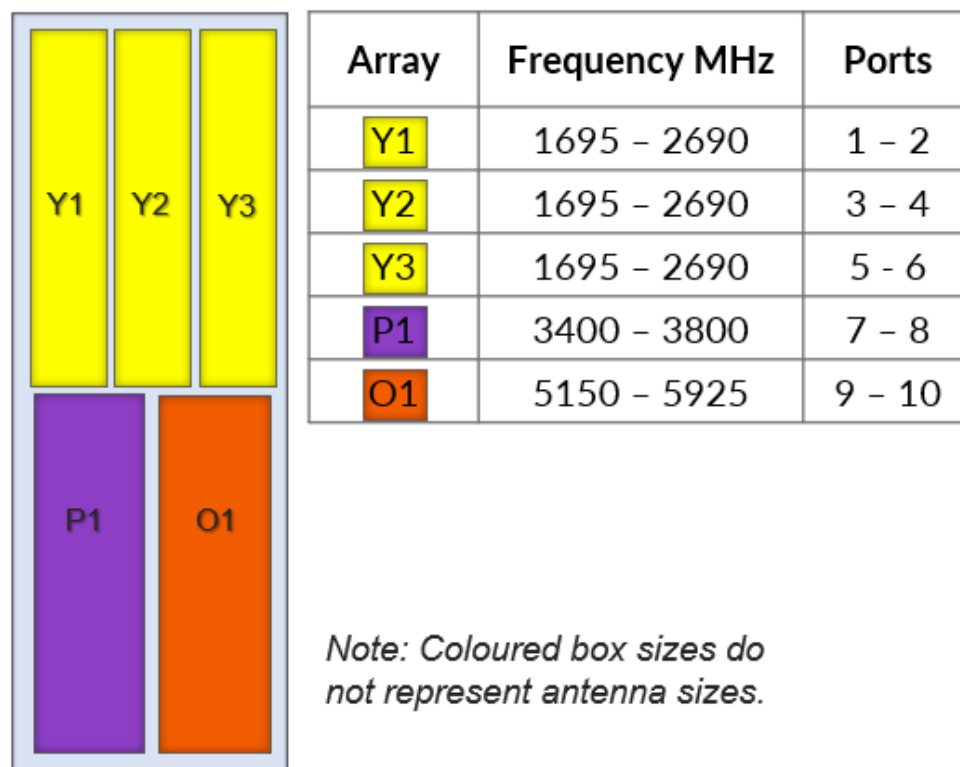
For radiation pattern files, please login at www.alphawireless.com

TECHNICAL SPECIFICATION

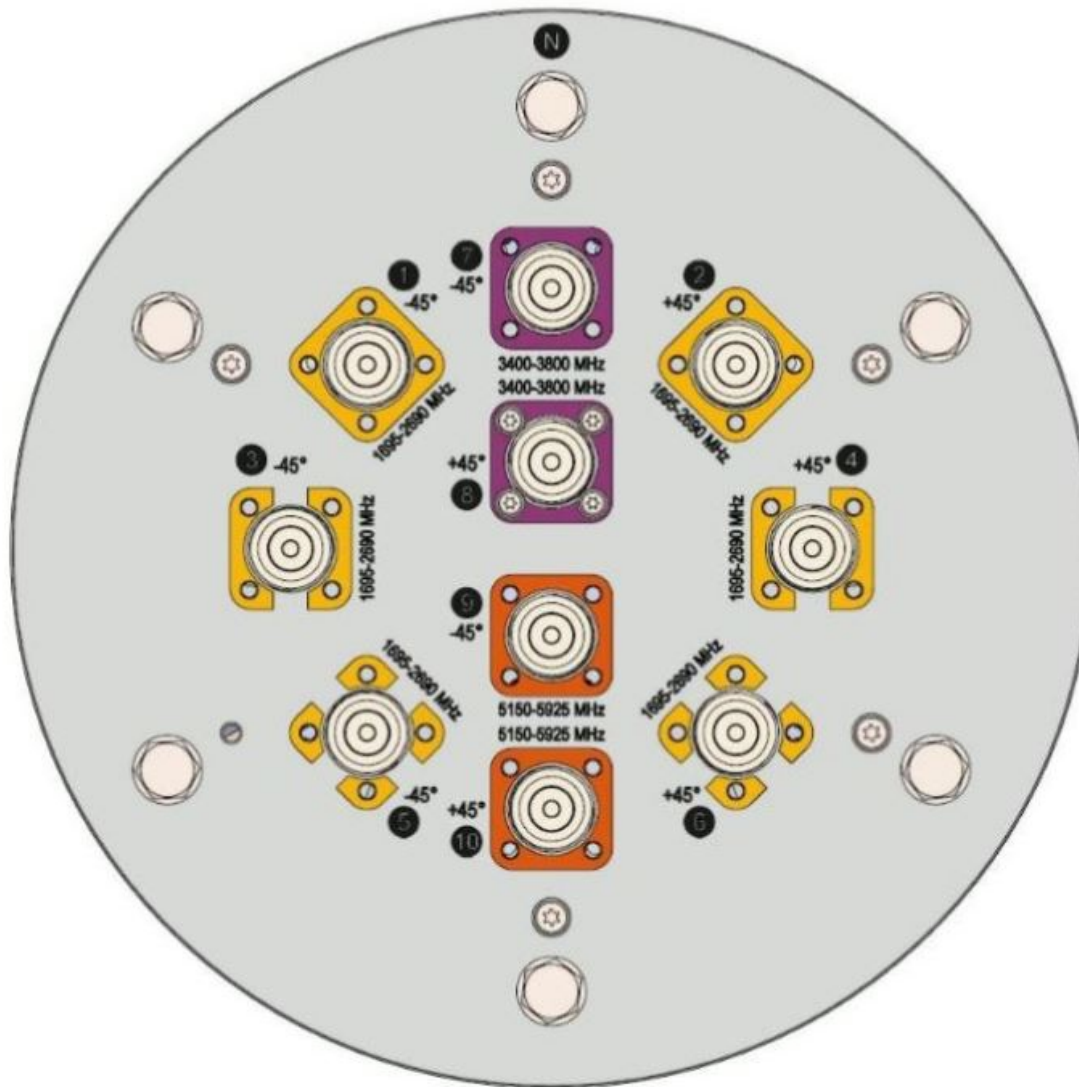
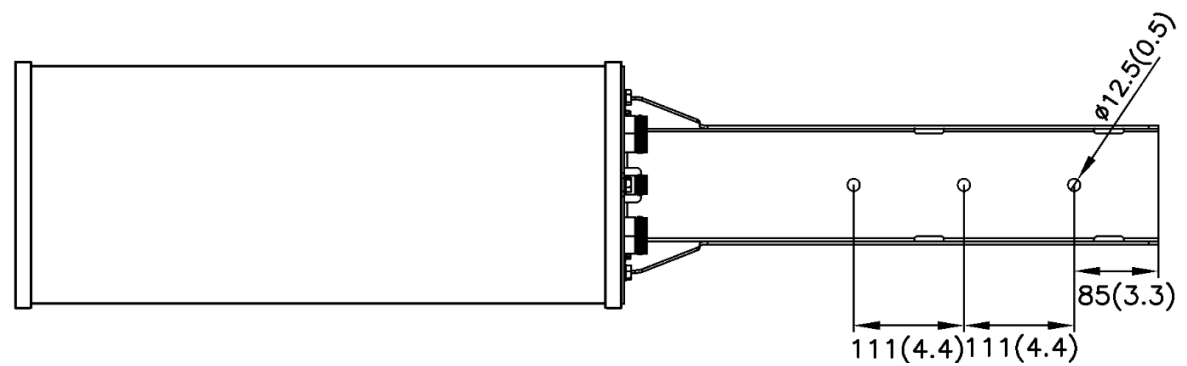
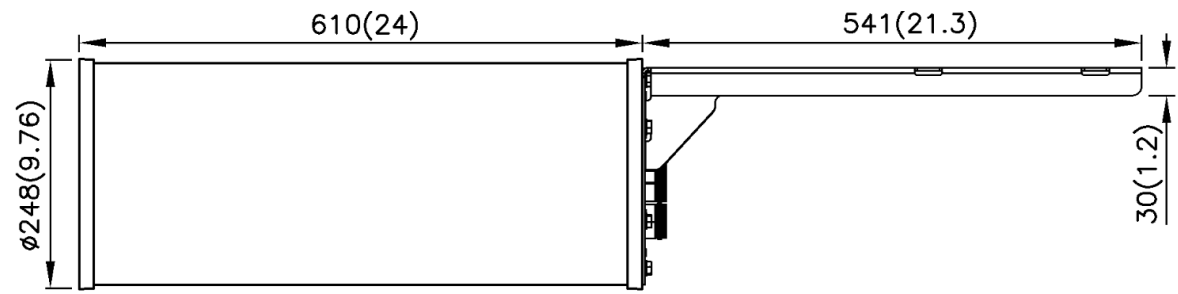
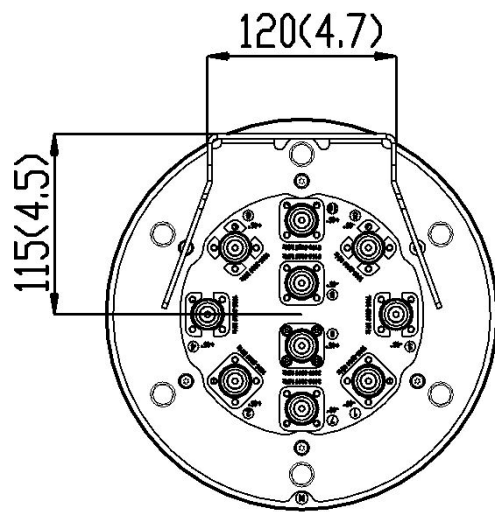
Mechanical Specifications

Dimensions	mm (in)	610 (24) x 248 (9.8) - (L x D)
Volume	ft ³ (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)	7.1 (15.6)
Net Weight (mount)	kg (lb)	3.5 (7.7)
Shipping Weight	kg (lb)	12.2 (26.9)
Connector Type (Female)	-	4.3-10
Connector Position	-	Bottom
Connector Quantity	-	10 (6P Mid Band, 2P High Band CBRS, 2P High Band LAA)
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



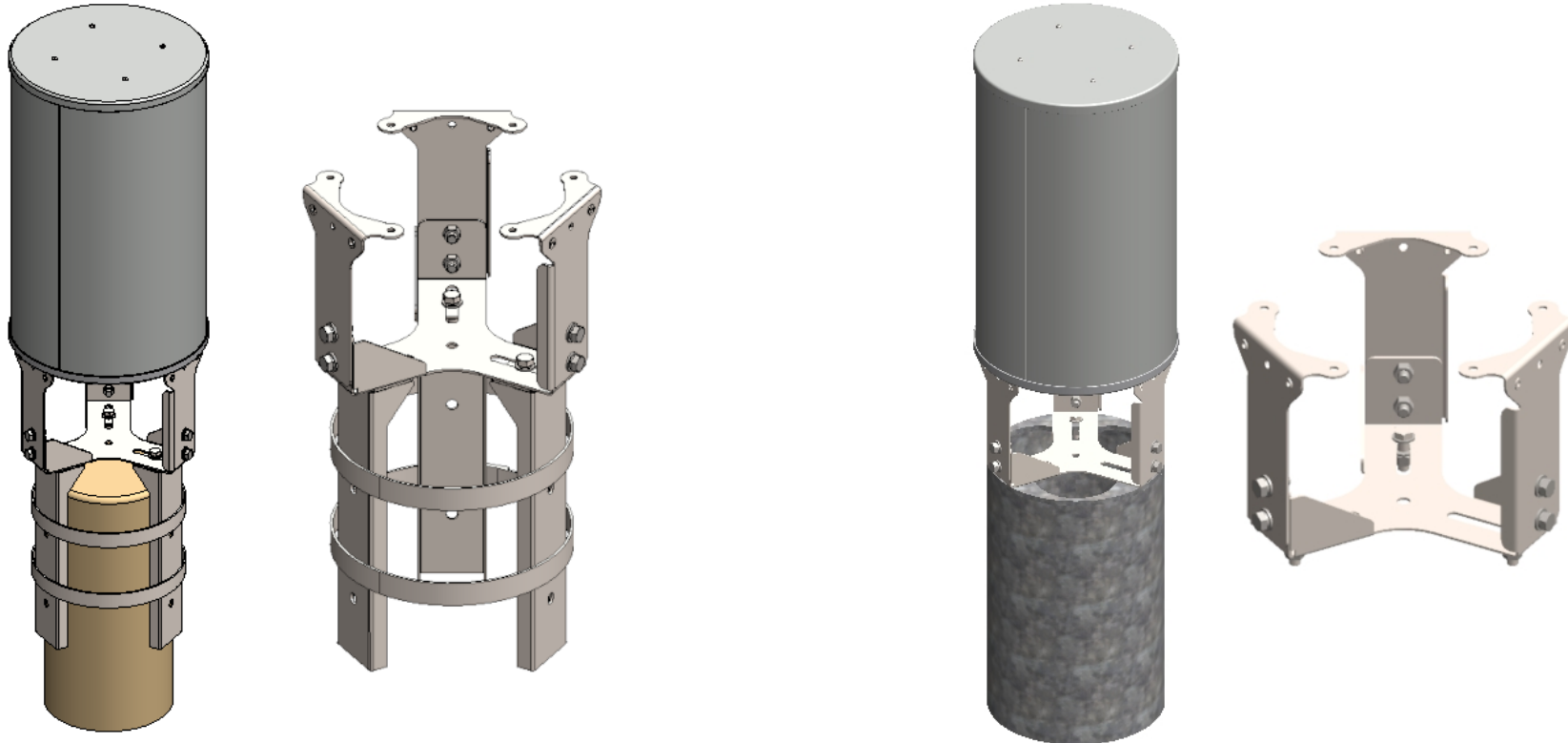
Mechanical Illustration



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-169 Tri-Leg Mount Kit Bracket for 14.4" Canister



Ordering Info

Order Code - Antenna

AW3768-T0-F-ZB

Order Code - Accessories

CL-V-169

AW1012-2-FM-FM

AW1012-2-FM-NM

AW1014-2-FM-TM

Description

Zero degrees Fixed Tilt with 4.3-10 Connectors. Mount Bracket not included.

Description

Tri-Leg Pole Top Mounting Bracket for 14.4" Canisters

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

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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