



## AW3763-T0-F

**Common Name** 24 Port - Canister - Fixed Tilt - 120° Spacing - 2 Sectors

617-894MHz	4+4	Fixed	7	65°
1695-2690MHz	4+4	Fixed	14	65°
3400-3800MHz	2+2	Fixed	11	65°
5150-5925MHz	2+2	Fixed	6	65°
Frequency	Ports	Tilt	Gain	Beamwidth

## PRODUCT INFORMATION

This product design is intended to offer multiple ports across multiple bands. Two sector panels are packaged inside one canister and angled with 120° azimuth separation to provide wide-angle coverage. The Low Band extends down to the 617MHz band using wideband technology.

Low band, Mid band, CBRS and LAA are Fixed Tilt.

Unit meets FCC Part 15.407 (a) (1) (i) for U-NII Band requirements.

## APPLICATION

This Alpha Wireless multi-port multi-band small cell provides a solution where 24" height is important. This antenna has been designed for use in both Venue and Right of Way type deployments.

There are a number of mounting options available making deployments on lamp posts, utility poles, walls and other vertical structures possible. A bracket that straps the antenna vertical to a pole comes as standard. This can be upgraded to a mount bracket that enables mechanical tilt if required.

## STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
---------------	---------------------



## FEATURES

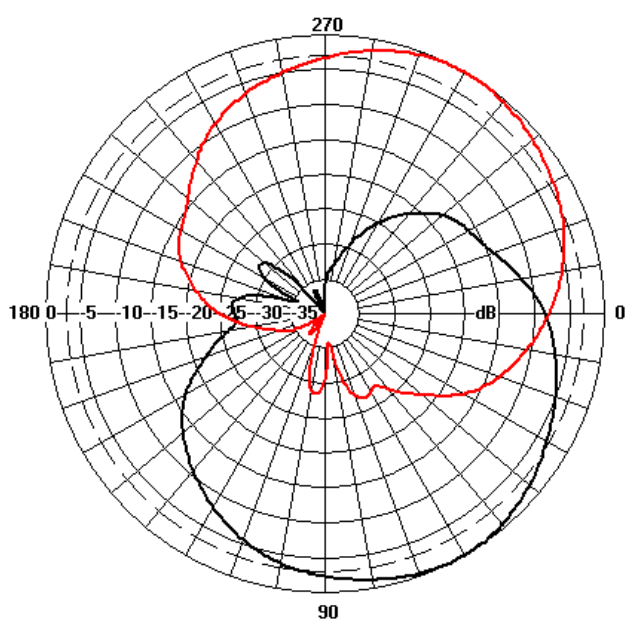
- Two 65° sectors with 120° azimuth separation
- High Port count enabling multiple operators.
- High Data rate frequency bands covered including Mid Band, CBRS and LAA.
- Low Band extends down to 617MHz
- Compact design for low visual impact.
- Meets current U-NII-1 requirements for gain and upper side lobe performance.
- Manufactured in Ireland.

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

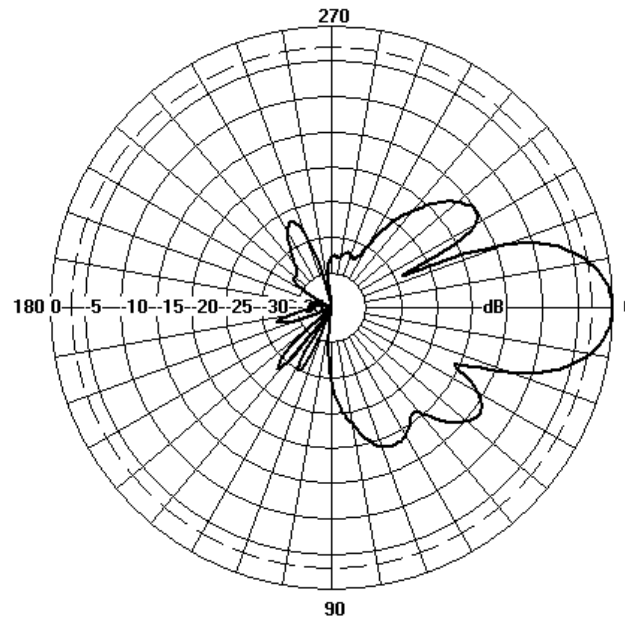
TECHNICAL SPECIFICATION

Electrical Specifications		Low Band				Mid Band				3.5/ 5.5GHz	
Frequency Range	MHz	617-686	686-755	755-824	824-894	1695-1995	1920-2170	2170-2500	2500-2690	3400-3800	5150-5925
Polarisation		+/- 45° Slant Linear									
Azimuth Beamwidth	Degree	75° / 75°	72° / 72°	70° / 70°	66° / 66°	68° / 68°	66° / 66°	62° / 62°	58° / 58°	60° / 60°	57° / 57°
Azimuth Beam Squint	Degree <	5°	5°	5°	5°	5°	5°	5°	5°	5°	5°
Elevation Beamwidth	Degree	88° ± 9°	72° ± 8°	66° ± 7°	64° ± 8°	19° ± 2°	17° ± 2°	15° ± 2°	13° ± 2°	33° ± 3°	26° ± 3°
Electrical Downtilt	Degree	T0°	T0°	T0°	T0°	T0°	T0°	T0°	T0°	T0°	T0°
Electrical Downtilt Deviation	Degree <	5°	5°	5°	5°	1.5	1.5	1.5	1.5	3.0	3.0
Impedance	Ohms	50	50	50	50	50	50	50	50	50	50
VSWR	NA <	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Return Loss	dB >	14	14	14	14	14	14	14	14	14	14
Front to Back Ratio: Total Power +/- 30°	dB >	25	25	25	25	27	27	27	27	22	22
Isolation	dB >	25	25	25	25	27	27	27	27	22	22
Passive Intermodulation	dBc <	-153	-153	-153	-153	-153	-153	-153	-153	N/A	N/A
Cross Polar Discrimination	dB >	16	16	16	16	16	16	16	16	16	16
Maximum Effective Power Per Port	W	100	100	100	100	250	250	250	250	50	1

Representative Pattern Files

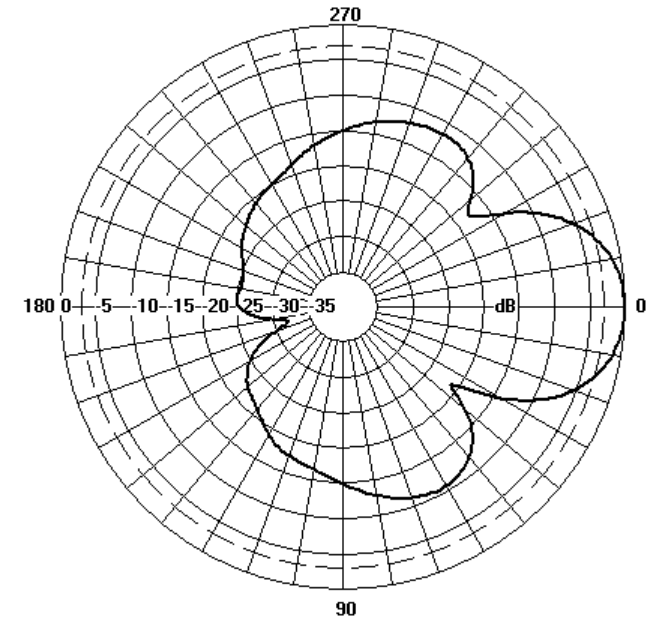


Azimuth



Elevation

1695 - 2690MHz



3.5GHz / 5.5GHz

## TECHNICAL SPECIFICATION

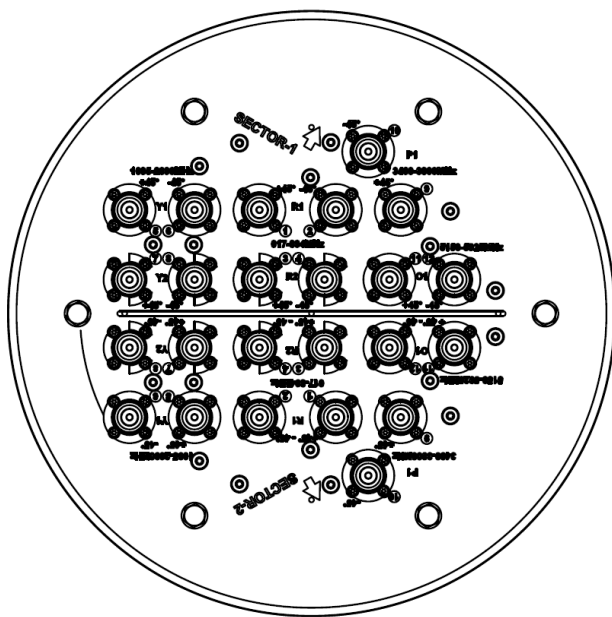
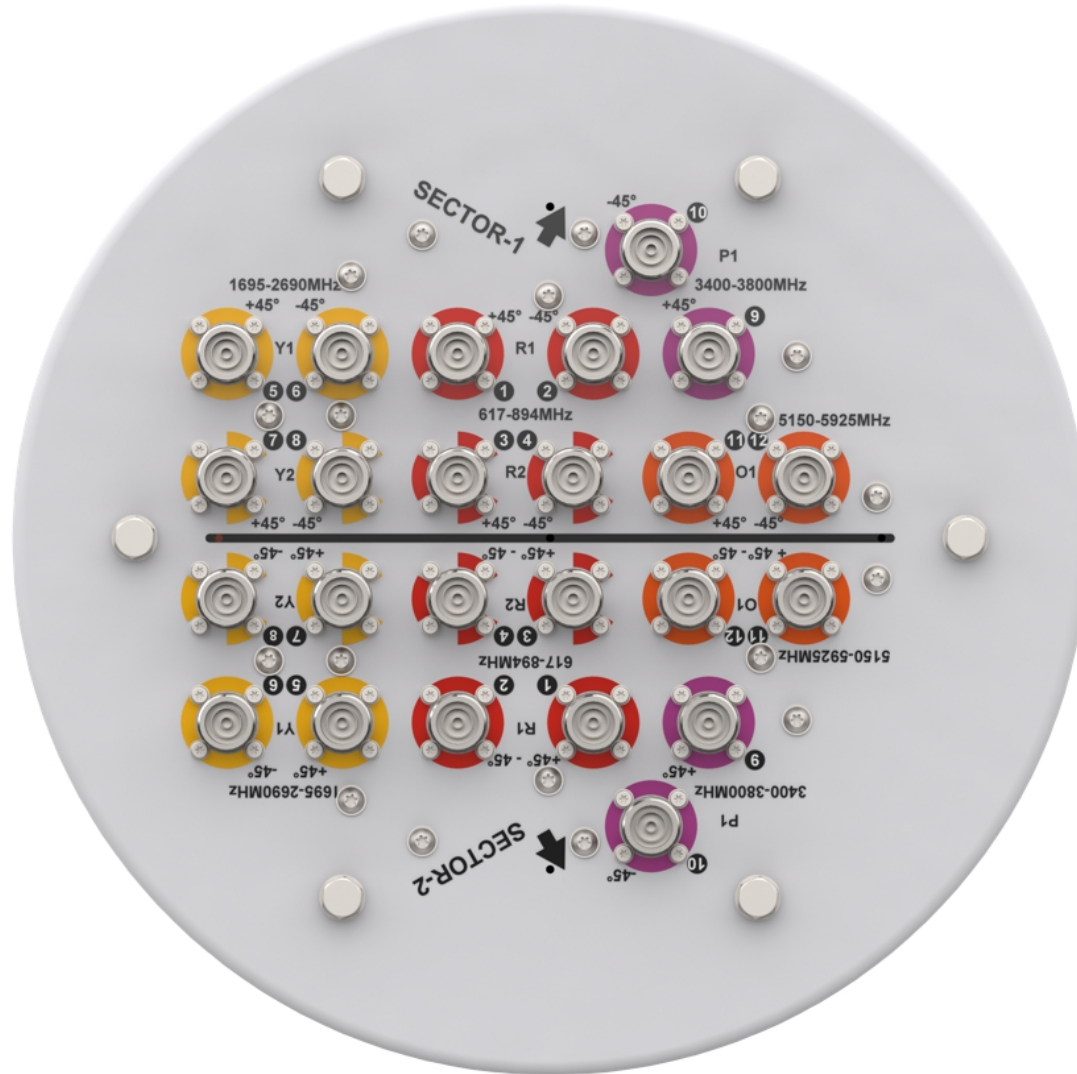
### Mechanical Specifications

Dimensions	mm (in)	610 (24) x 365 (14.3) - (L x D)
Packing Size (LxWxD)	mm (in)	685 (27) x 448 (17.6) x 448 (17.6)
Net Weight (antenna)	kg (lb)	9.5 (21)
Net Weight (mount)	kg (lb)	5.9 (13)
Shipping Weight	kg (lb)	17.4 (38.4)
Connector Type (Female)	-	4.3-10
Connector Position	-	Bottom
Connector Position Quantity	-	24 (4P + 4P Low band, 4P + 4P Mid band, 2P + 2P CBRS & 2P + 2P LAA)
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	180 (40)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	180 (40)
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

TECHNICAL SPECIFICATION

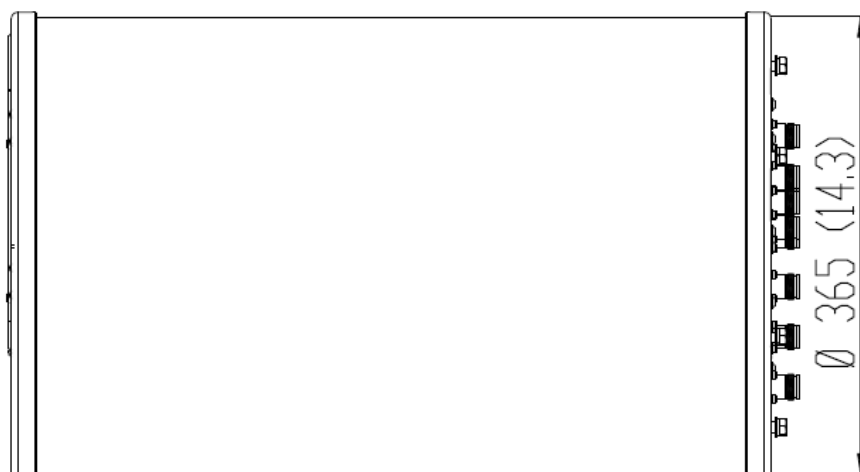
Mechanical Illustration



610 (24)



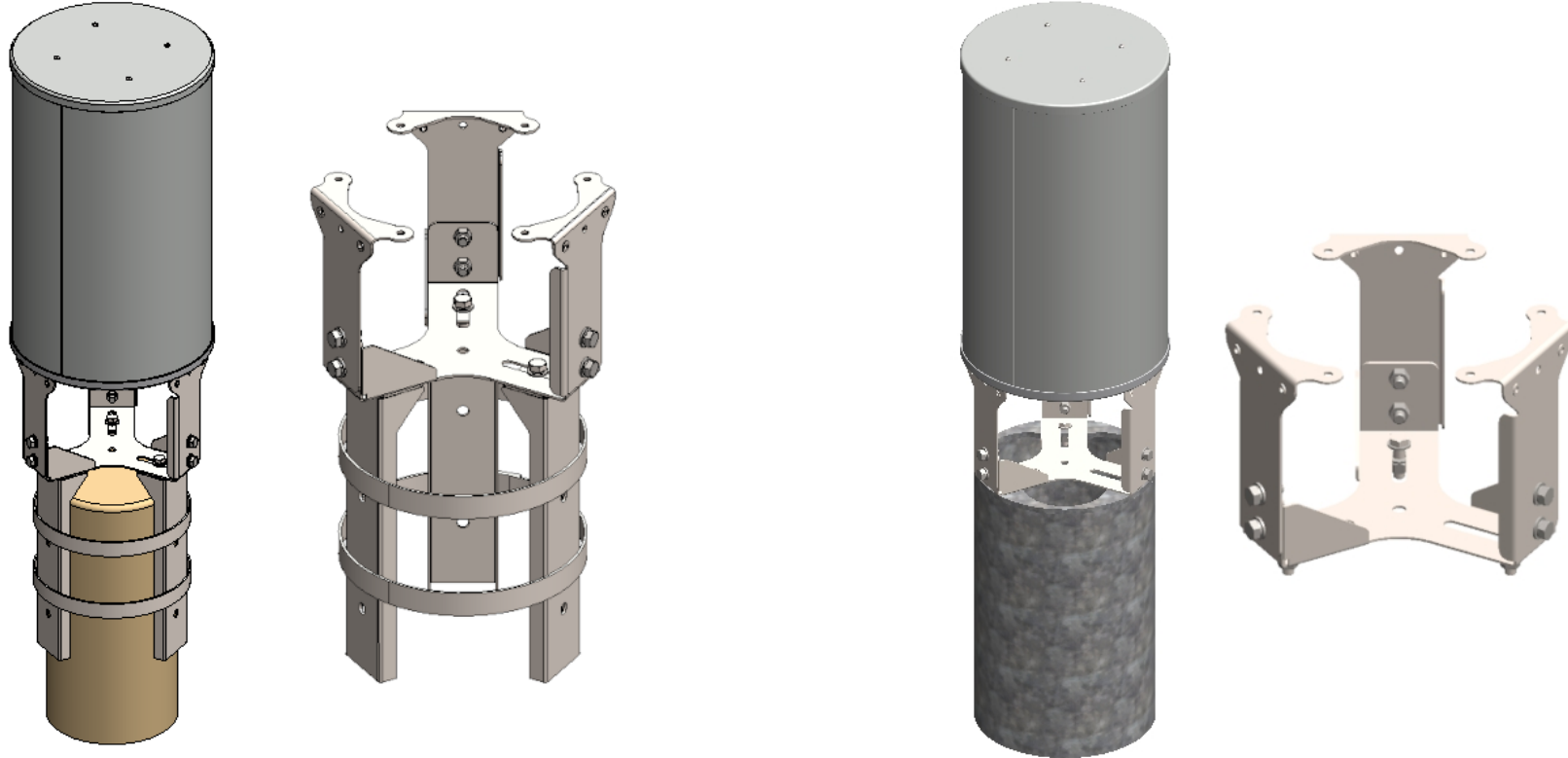
Ø 365 (14.3)



## TECHNICAL SPECIFICATION

### Mounting Bracket Kit

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



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
N/A (No Mechanical tilt with Omni's)	Galvanised Steel	89mm (3.5") to 330mm (13")

### Ordering Info

#### Order Code - Antenna

AW3763-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](mailto:sales@alphawireless.com)  
+353 57 86 33847

#### North America

7301 W. 129th Street, Suite 150,  
Overland Park,  
KS 66213, USA  
[sales@alphawireless.com](mailto:sales@alphawireless.com)  
+1 913 279 0008

#### Australia

3/76 Regentville Rd,  
Jamisontown,  
NSW 2750, AUSTRALIA  
[sales@alphawireless.com](mailto:sales@alphawireless.com)  
+ 61 2 4504 8212

### DISCLAIMER

The information in this document is provided solely regarding Alpha Wireless products. The information is not a guarantee of performance or characteristics. Alpha Wireless reserves the right to modify, change, amend, improve or make corrections to this document and its products, at any time and its sole discretion without prior written consent or notice. No license to any intellectual property rights is granted or implied under this document. Alpha Wireless disclaims warranties and liabilities of any kind including non-infringement of intellectual property rights of any third party.