



AW3759-T0-F

Common Name 24 Port, (4P/4P/2P/2P)x2, 24", Fixed Tilt Back to Back, 2 Sector Canister

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. There are four Low Band ports, four Mid Band Ports, four CBRS ports and four LAA ports. 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
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FEATURES

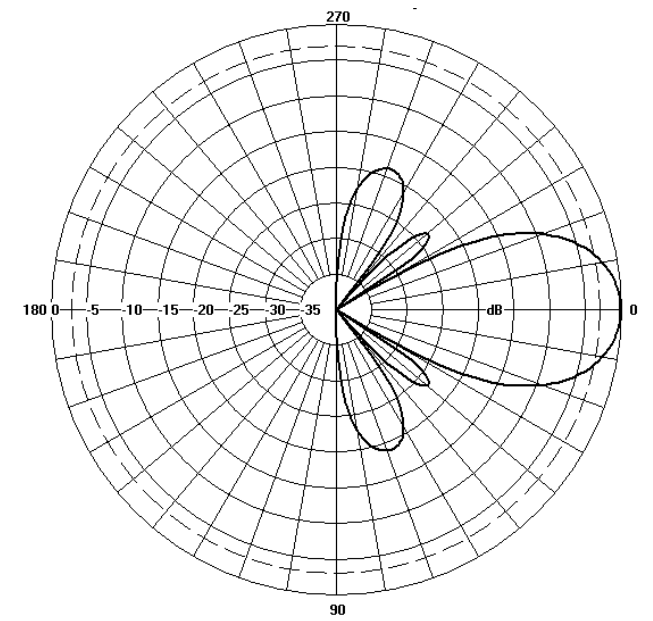
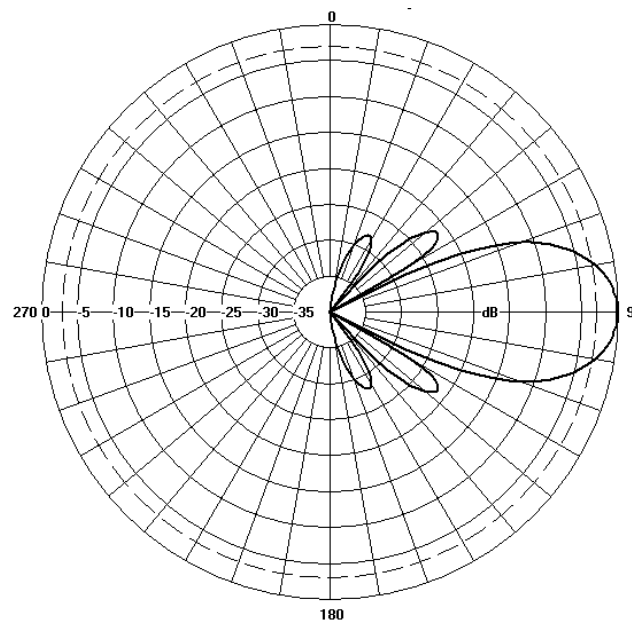
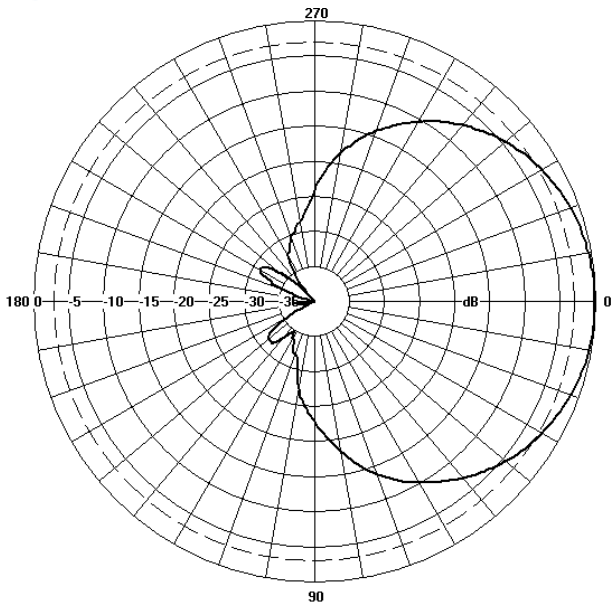
- High Port count enabling multiple operators.
- High Data rate frequency bands covered including Mid Band, CBRS and LAA.
- Low Band extends down to 617MHz
- Compact design for low visual impact.
- Meets current U-NII-1 requirements for gain and upper side lobe performance.
- Manufactured in Ireland.

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										
Gain	Basta	dB	7.2±0.5	7.6±0.5	7.9±0.5	8.2±0.5	12.6±0.5	13.1±0.5	13.6±0.5	14.0±0.5	11.0±0.5	6.0±0.5
	Max	dB	7.7	8.1	8.4	8.7	13.1	13.6	14.1	14.5	11.5	6.5
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



1695 - 2690MHz

3.5GHz / 5.5GHz

Azimuth

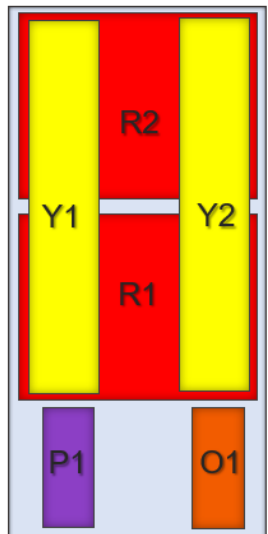
Elevation

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

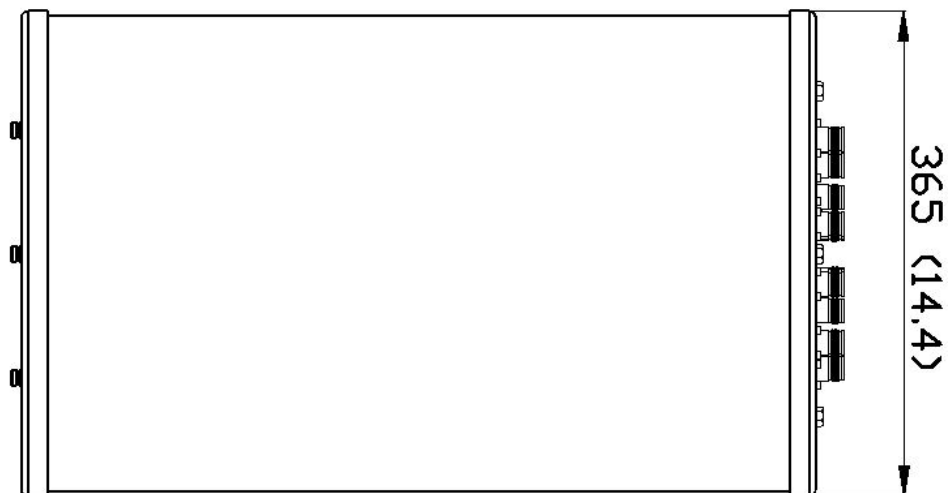
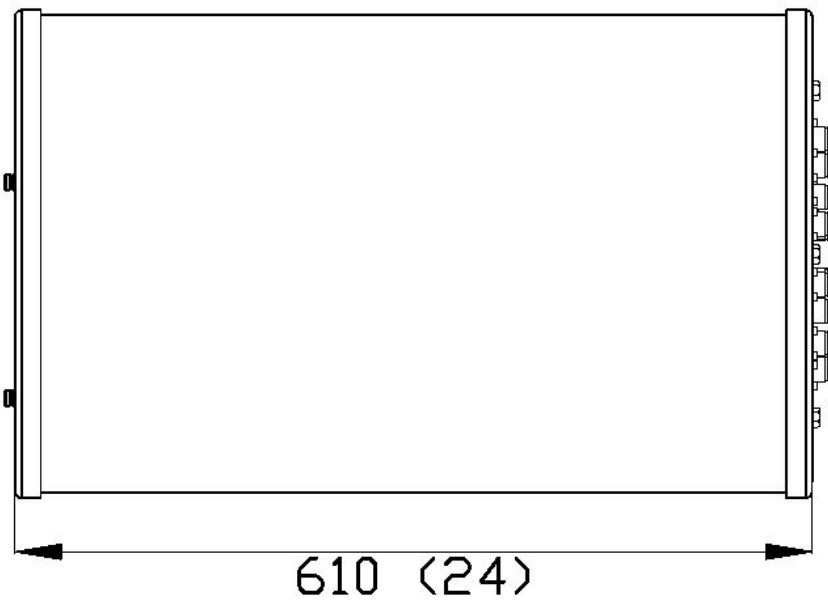
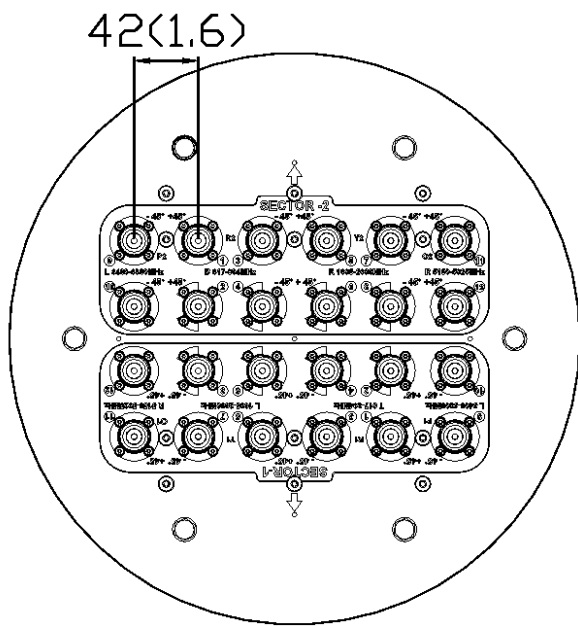
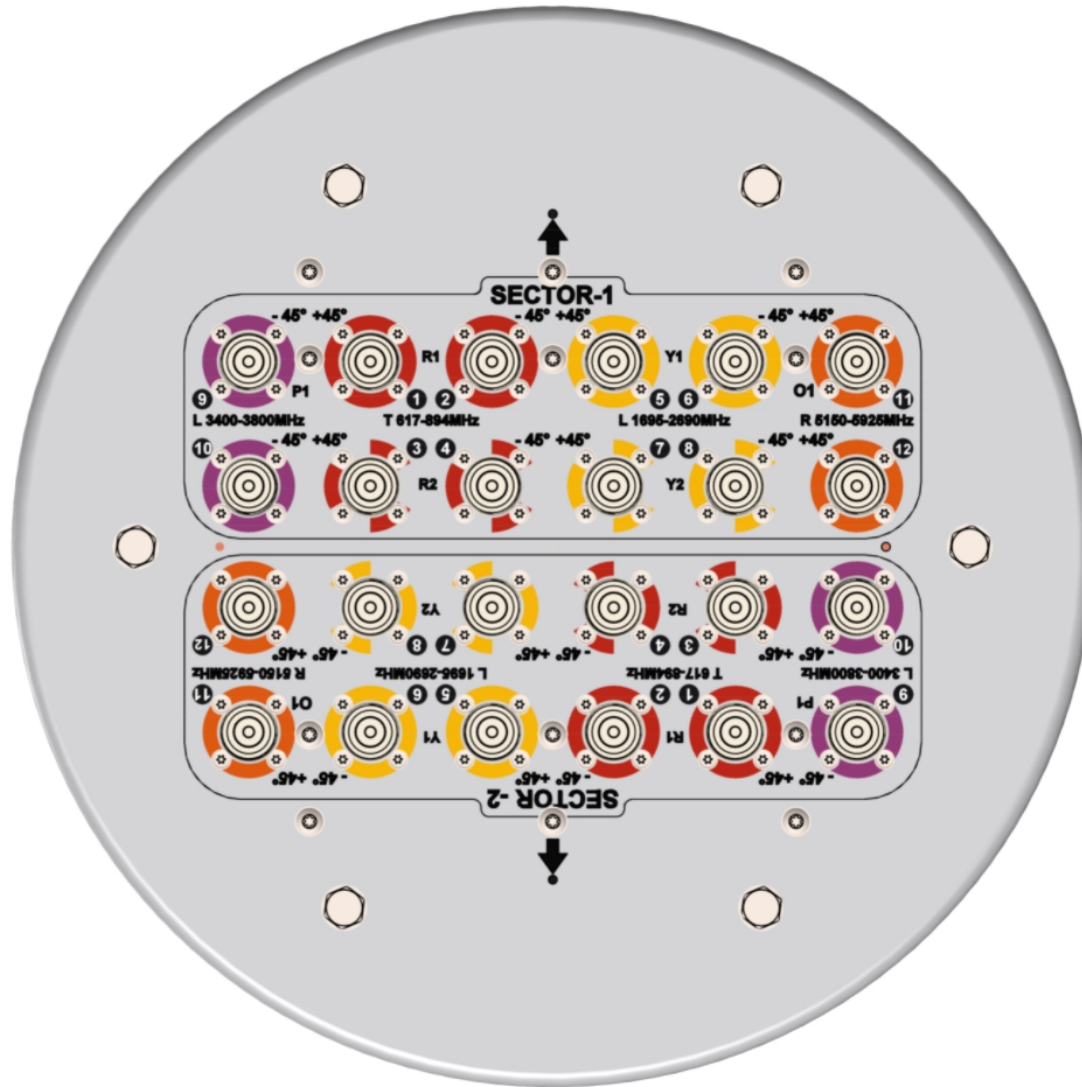


Array	Frequency MHz	Ports
R1	617 - 894	1 - 2
R2	617 - 894	3 - 4
Y1	1695 - 2690	5 - 6
Y2	1695 - 2690	7 - 8
P1	3400 - 3800	9 - 10
O1	5150 - 5925	11-12

Note: Colored box sizes do not represent antenna sizes.

TECHNICAL SPECIFICATION

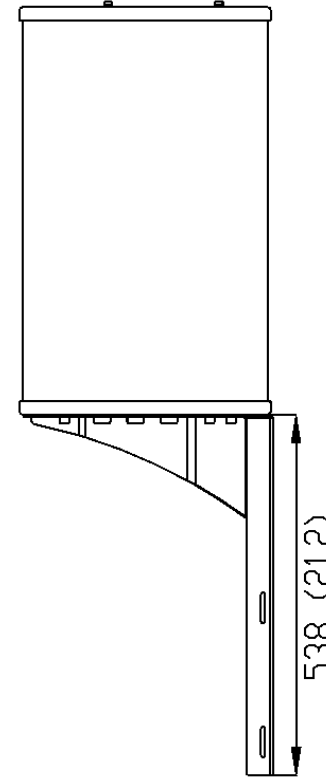
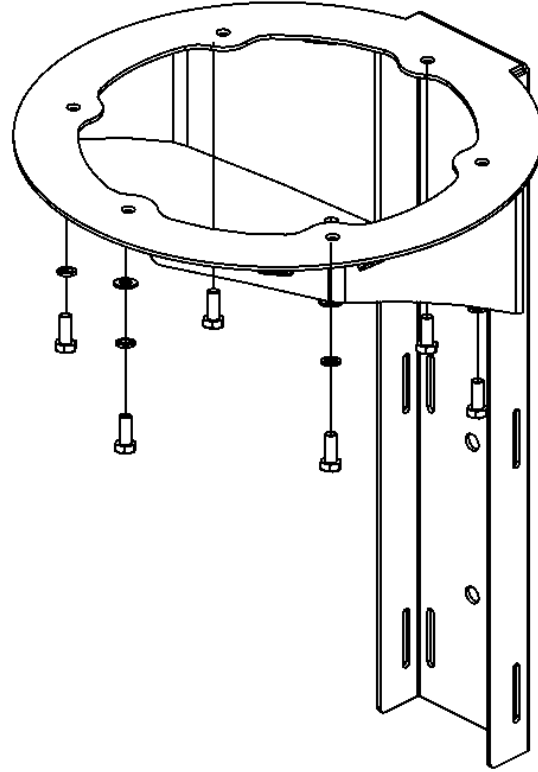
Mechanical Illustration



TECHNICAL SPECIFICATION

Mounting Bracket Kit

3 inch Bracket description



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

Ordering Info

Order Code - Antenna

AW3759-T0-F

Description

Zero degrees Fixed Tilt with 4.3-10 Connectors.

Order Code - Accessories

CL-V-161

Description

Adjustable Mount kit - Optional Accessory

AW1012-2-FM-FM

RF Jumper Cable, connector types 4.3-10 (m) / 4.3-10 (m), length 2 metres (6'6")

AW1012-2-FM-NM

RF Jumper Cable, connector types 4.3-10 (m) / N-Type (m), length 2 metres (6'6")

AW1014-2-FM-TM

RF Jumper Cable, connector types 4.3-10 (m) / Nex10 (m), length 2 metres (6'6")

Enquiries

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