



AW3926-E-F

Common Name 18 Port (2P/4P x 3) 1.86M Low Band, Mid Band Tri-Sector

617-894MHz	6	eRET	13.9	65°
1695-2690MHz	12	eRET	17.8	65°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This antenna solution is being deployed on rooftops and macro pole applications globally. It is a multi-frequency solution that provides 2 ports per sector across 617-894MHz (Low Band) and 4 ports per sector across 1695-2690MHz (Mid Band). The three 65 degree azimuth beamwidth sectors are positioned at 0°, 120°, and 240° in the azimuth plane.

APPLICATION

Canisters support multiple antennas into one attractive package. These canisters deliver an elegant macro solution for pole-top, rooftop and streetworks applications. Alpha Wireless produces one of the smallest diameter canisters in the marketplace.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

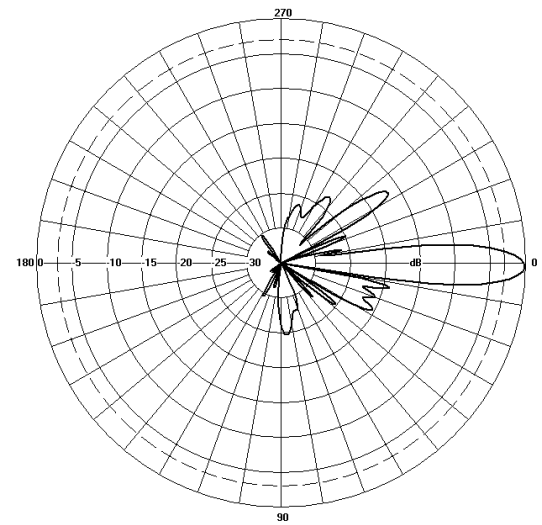
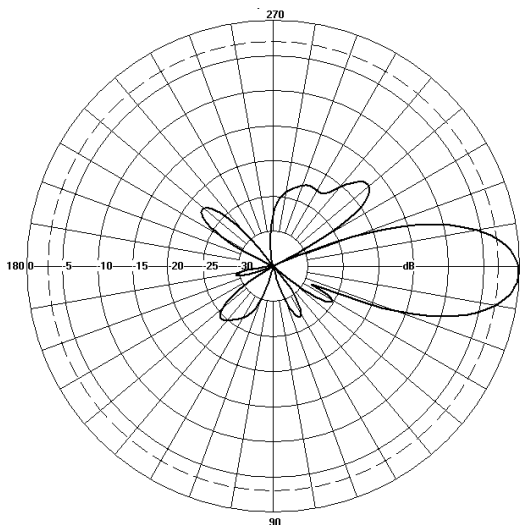
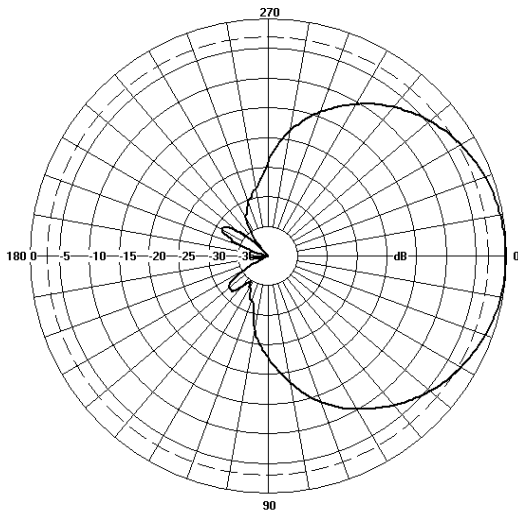
- Three sector canister with sectors orientated at 0°, 120°, and 240° in the Azimuth Plane
- 617-894MHz x 2 Ports per sector
- 1695-2690MHz x 4 Ports per sector
- 617-894MHz tilt range T2° - T12°.
- 1695-2690MHz tilt range T2° - T12°.
- Low PIM performance to reduce interference.
- Seamless access hatch cover that hides the jumper cables.
- Flange mount design.

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			
Frequency Range	MHz	617-703	703-788	788-894	1695-1920	1920-2170	2300-2690	
Polarisation	Degree	±45° Slant Linear						
Gain	Basta	dBi	12.5±0.5	13.0±0.5	13.4±0.5	16.8±0.5	17.1±0.5	17.3±0.5
	Max	dBi	13.0	13.5	13.9	17.3	17.6	17.8
Azimuth Beamwidth	Degree	78°	76°	73°	61°	62°	62°	
Azimuth Beam Squint	Degree<	3°			3°			
Elevation Beamwidth	Degree	18.1°	16.4°	14.6°	7.5°	6.7°	5.7°	
Electrical Downtilt	Degree	T2° - T12°			T2° - T12°			
Electrical Downtilt Deviation	Degree<	1°	1°	1°	1°	1°	1°	
Impedance	Ohms	50						
VSWR	<	1.5						
Return Loss	dB>	14						
Isolation	dB>	25	25	25	25	25	25	
Passive Intermodulation	dBc<	-150	-150	-150	-150	-150	-150	
Upper Sidelobe Suppression, Peak to 20°	dB>	16	16	16	16	16	16	
Cross-Polar Discrimination	dB>	15	15	15	15	15	15	
Max Power Per Port	W	300			250			

Representative Pattern Files



Azimuth

Elevation

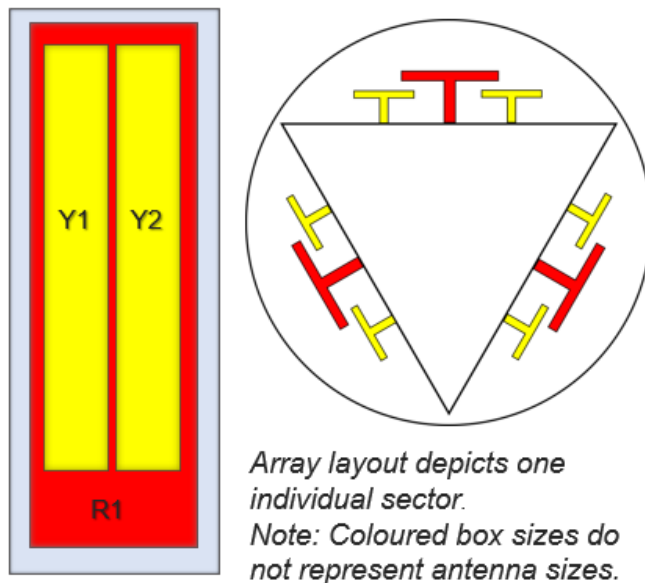
For radiation pattern files, please login at www.alphawireless.com

TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions	mm (in)	1860 (73.2) x 406 (15.9) - (L x Ø)
Packing Size (LxWxD)	mm (in)	2150 (84.6) x 550 (21.7) x 590 (23)
Net Weight (antenna)	kg (lb)	70 (154)
Shipping Weight	kg (lb)	110 (242)
Connector Type (Female)	-	4.3-10
Connector Position	-	Bottom
Connector Quantity	-	18 (6P Low band, 12P Mid band)
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	660 (148)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	660 (148)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV Stabilised ASA capped ABS
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

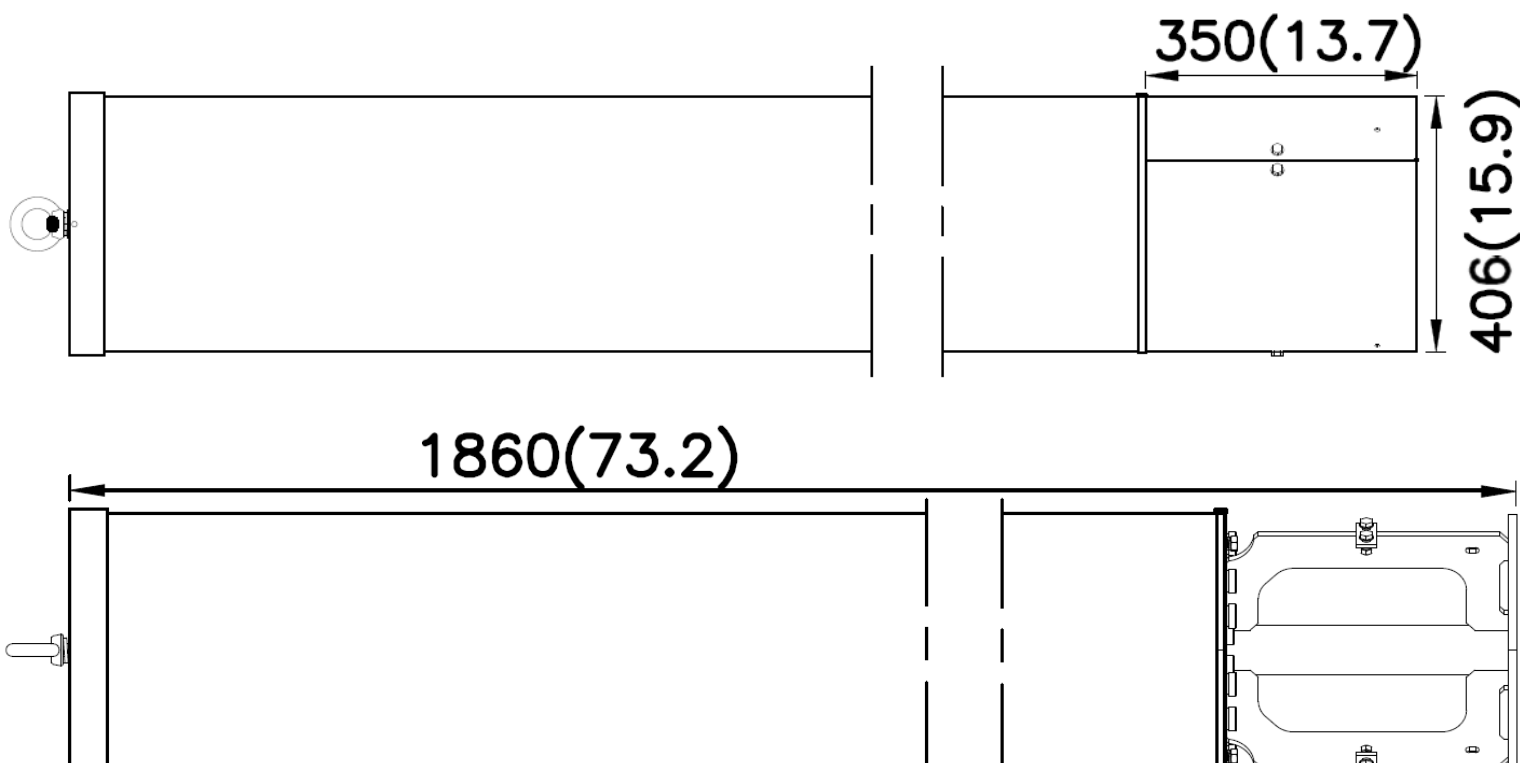
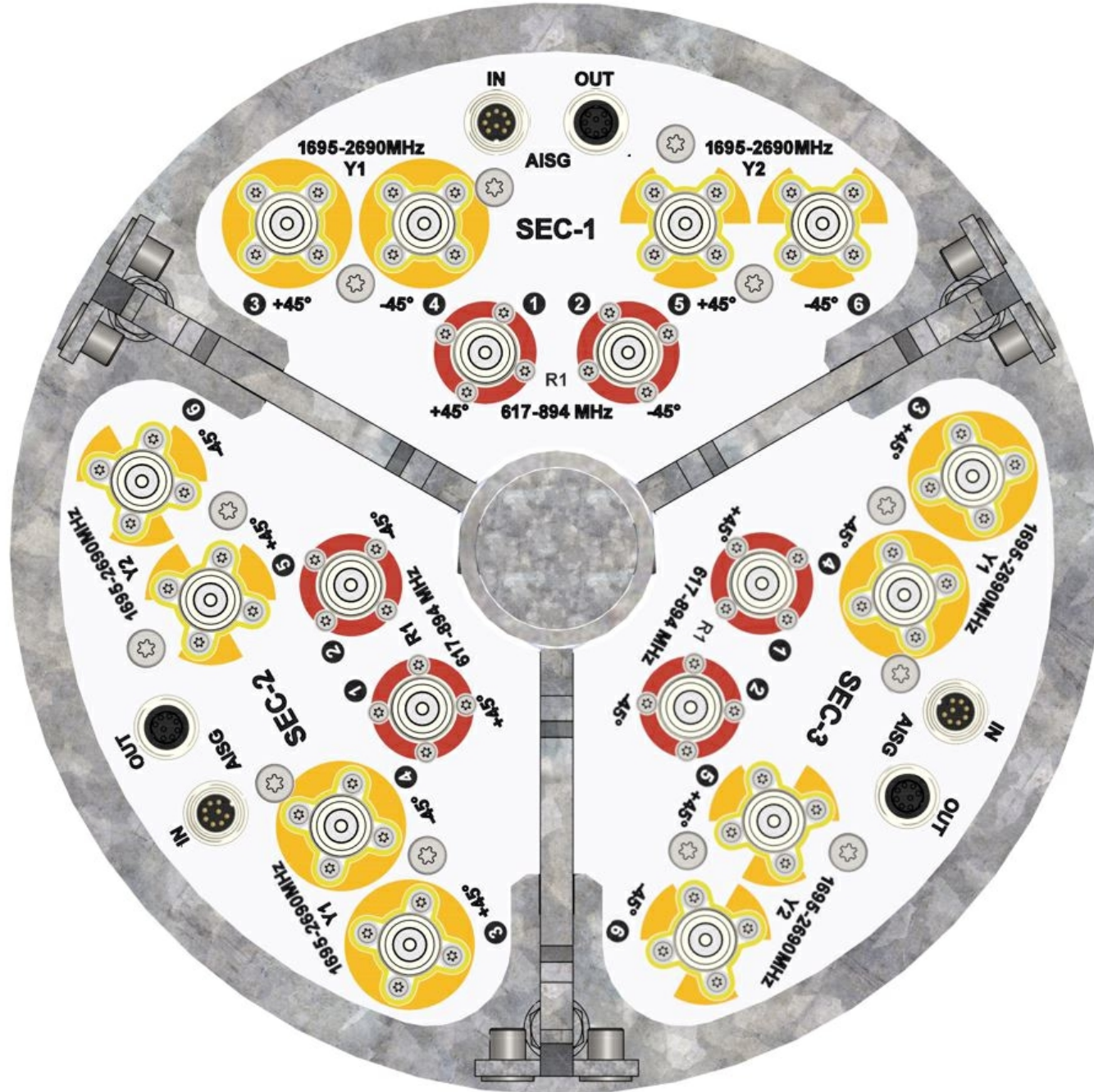


Array	Frequency MHz	Ports	RET ID
R1	617 - 894	1 - 2	1
Y1	1695 - 2690	3 - 4	2
Y2		5 - 6	3

Configuration	
617-894 MHz	One RET per array: R1 x 3 Sectors
1695-2690 MHz	One RET per array: Y1, Y2 x 3 Sectors
Total Quantity	Nine RET Motor Controllers
Location and Interface	
RET Controller Location	Inside antenna radome housing
RET Interface	Pair of AISG 8 Pin DIN connectors, one male, one female
RET Interface Quantity	Two pairs of AISG 8 Pin DIN connectors, one per sector
RET Interface Location	On connector plate located at bottom of antenna
Electrical	
Input Voltage	10 - 30V
Power Idle Mode	< 1W
Power Active Mode	< 10W
Protocol	3GPP / AISG 2.0

TECHNICAL SPECIFICATION

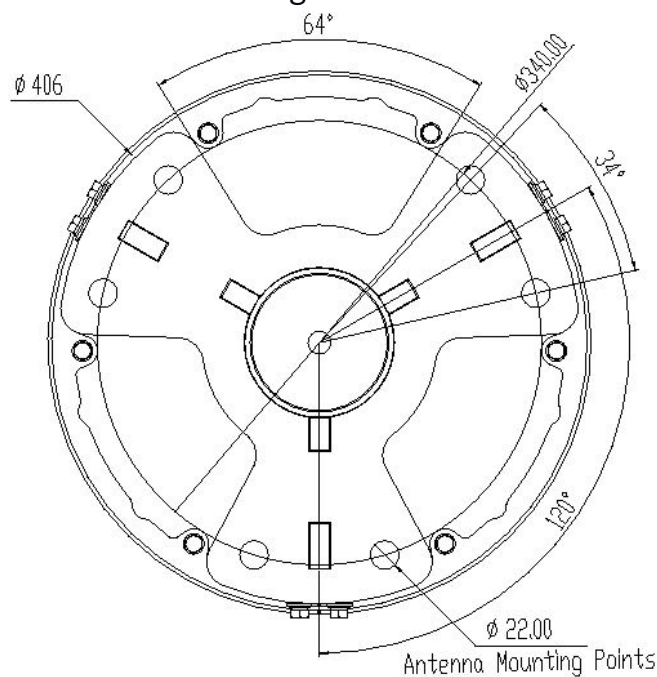
Mechanical Illustration



TECHNICAL SPECIFICATION

Mounting Bracket Kit

406mm Canister Flange Mount



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

Ordering Info

Order Code - Antenna	Description
AW3926-E-F	Enclosed Remote Electrical Tilt (eRET) with 4.3-10 Connectors.
Order Code - Accessories	Description
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")
PADC 1000	Portable AISG Controller
SADC 2000	Site AISG Controller
AW0326-3-PM-PF	AISG Jumper Cable Lengths 3 metres (9' 10")
AW0326-10-PM-PF	AISG Jumper Cable Lengths 10 metres (32' 9")
AW0326-25-PM-PF	AISG Jumper Cable Lengths 25 metres (82')
AW0326-50-PM-PF	AISG Jumper Cable Lengths 50 metres (164')

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