



AW3935-T0-F

Common Name 8 Port - Mid Band and C-Band High Capacity Venue Panel - 50°

Frequency	Ports	Tilt	Gain	Beamwidth
1695-2170MHz	2	Fixed	10.5	50°
2300-2700MHz	2	Fixed	10.5	50°
3300-4200MHz	4	Fixed	10.5	50°

PRODUCT INFORMATION

This is a high capacity dual-band panel antenna solution that supports sectional grid seating in stadiums, venues and macro hot spot applications. The antenna features rectangular-shaped patterns with a symmetric 50° azimuth and vertical beamwidth and sharp pattern roll off. The focused radiation allows cell sectorization with frequency reuse for maximum capacity. It provides 2 ports across 1695-2170MHz, 2 ports across 2300-2700MHz and 4 ports across 3300-4200MHz,

APPLICATION

Special Application antennas are used for providing focused signal in high gain, narrow beam targeted applications.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

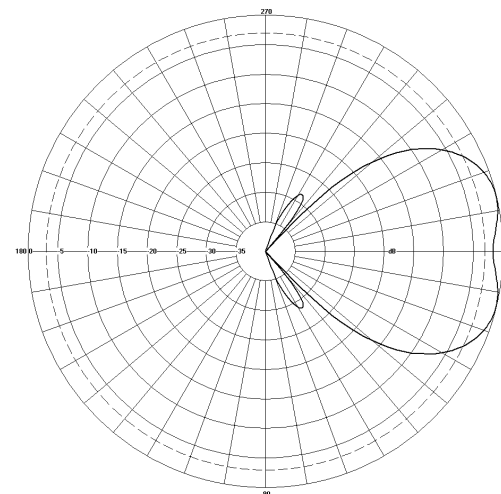
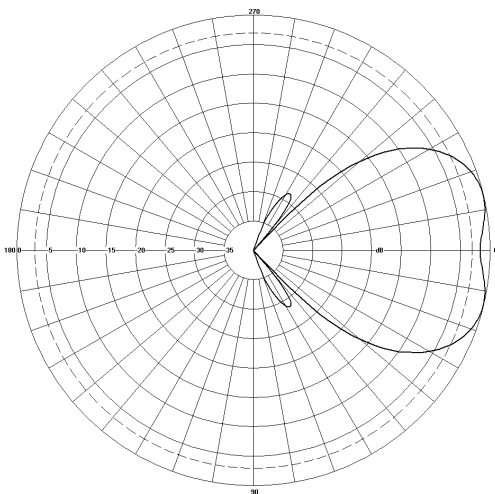
- Mid Bands 1695-2170MHz & 2300-2700MHz
- High Band 3300-4200MHz
- Rectangular patterns with sharp roll off
- 4x4 MIMO on High Band for maximum throughput.
- Compact design for low visual impact.
- Mounting bracket with variable tilt (included).
- Manufactured in Ireland.

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

TECHNICAL SPECIFICATION

Electrical Specifications			Array Y1		Array Y2		Arrays P1 & P2	
Frequency Range	MHz		1695-1995	1995-2170	2300-2500	2500-2700	3300-3800	3800-4200
Polarisation	Degree		+/- 45° Slant Linear					
Gain	Basta	dBi	9.5±0.5	10.5±0.5	9.5±0.5	10.5±0.5	9.5±0.5	10.5±0.5
	Max	dBi	10.0	11.0	10.0	11.0	10.0	11.0
Azimuth Beamwidth	Degree		50°	40°	50°	45°	52°	45°
Azimuth Beam Squint	Degree<		3°					
Elevation Beamwidth	Degree		50°	40°	50°	45°	52°	45°
Electrical Downtilt	Degree		T0°	T0°	T0°	T0°	T0°	T0°
Electrical Downtilt Deviation	Degree<		3°	3°	3°	3°	3°	3°
Impedance	Ohms		50					
VSWR	<		1.5					
Return Loss	dB>		14					
Isolation			25	25	25	25	25	25
Passive Intermodulation	dBc<		-150	-150	-150	-150	-150	-150
Cross-Polar Discrimination	dB>		15	15	15	15	15	15
Maximum Effective Power Per Port	W		100	100	100	100	100	100

Representative Pattern Files



Azimuth

Elevation

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

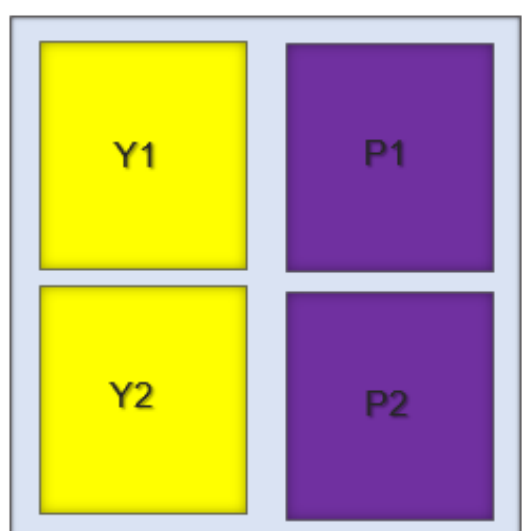
TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions	mm (in)	875 (34.4) x 862 (33.9) x 158 (6.2) - (LxWxD)
Net Weight (antenna)	kg (lb)	25 (55.1)
Net Weight (mount)	kg (lb)	3 (6.6)
Shipping Weight	kg (lb)	28 (61.7)
Connector Type (Female)	-	4.3-10
Connector Position	-	Bottom
Connector Quantity	-	8
Windload Frontal (at Rated Wind Speed: 150km/h)	N	770 (173)
Windload Lateral (at Rated Wind Speed: 150km/h)	N	147 (33)
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)

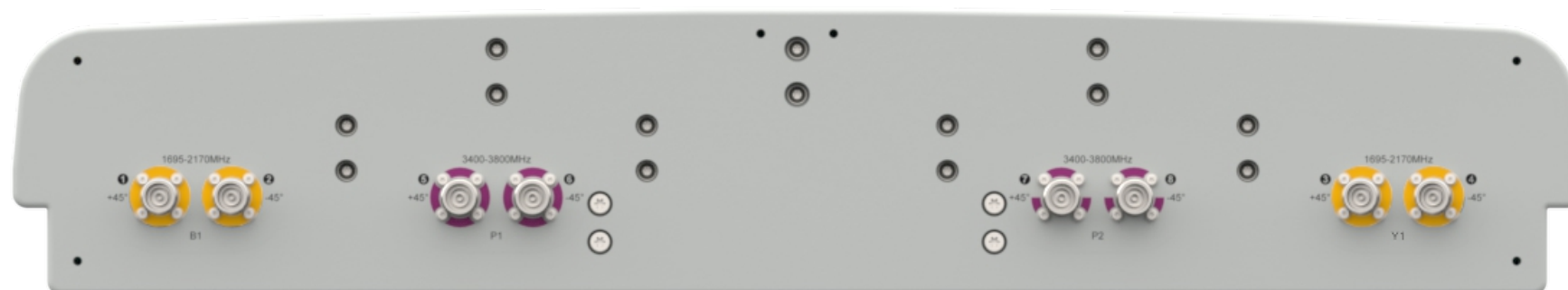
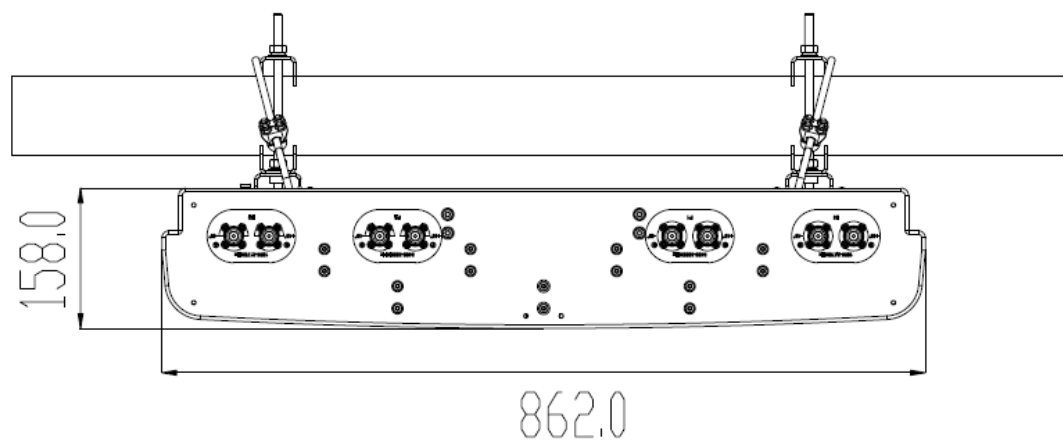
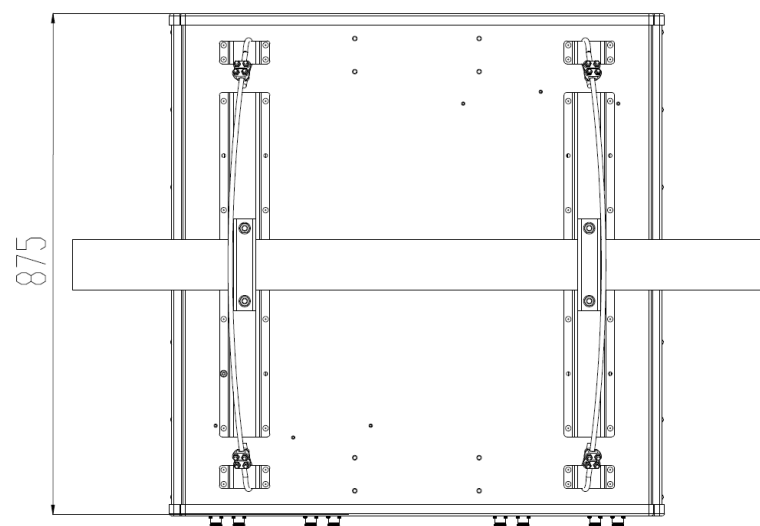
Array Layout and RET Information

Array	Frequency MHz	Ports
Y1	1695 - 2170	1 - 2
Y2	2300 - 2700	3 - 4
P1	3300 - 4200	5 - 6
P2	3300 - 4200	7 - 8



Note: Colored box sizes do not represent antenna sizes.

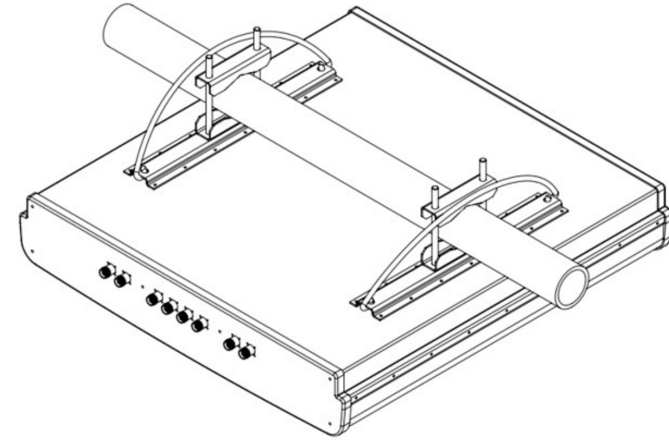
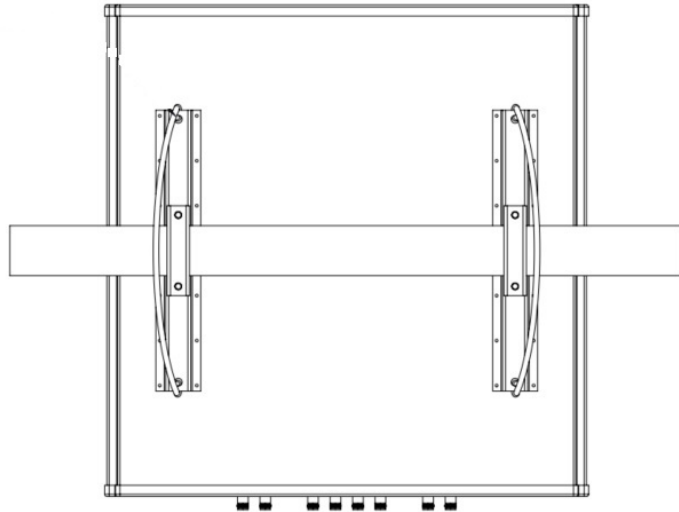
Mechanical Illustration



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-185 Mount Kit (Mount Kit included with antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0	Stainless Steel	50mm-115mm (2" to 4.5")

Ordering Options

Order Code - Antenna

AW3935-T0-F

Description

Zero Degrees Fixed Tilt 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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