DATASHEET

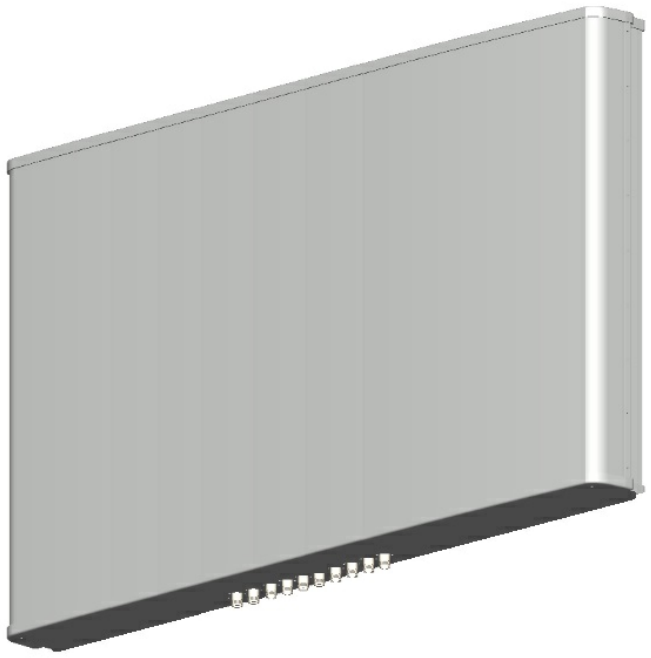
AW3936-T0-F

Common Name 10 Port - Low Band, Mid Band and C-Band High Capacity Venue Panel - 50°

Frequency	Ports	Tilt	Gain	Beamwidth
698-960MHz	2	Fixed	11.0	50°
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 698-960MHz, 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

RoHS COMPLIANT

CE

FEATURES

- Low Band 698-960MHz
- Mid Bands 1695-2170MHz & 2300-2700MHz
- High Band 3300-4200MHz
- Rectangular patterns with sharp roll off
- Compact design for low visual impact.
- Mounting bracket with variable tilt (included).
- Manufactured in Ireland.

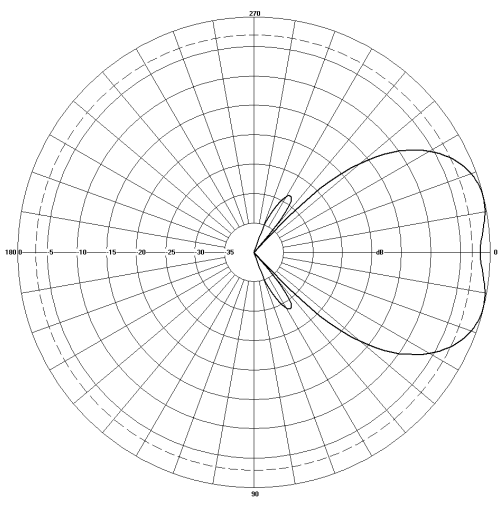
The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 9.6.

AW3936-T0-F

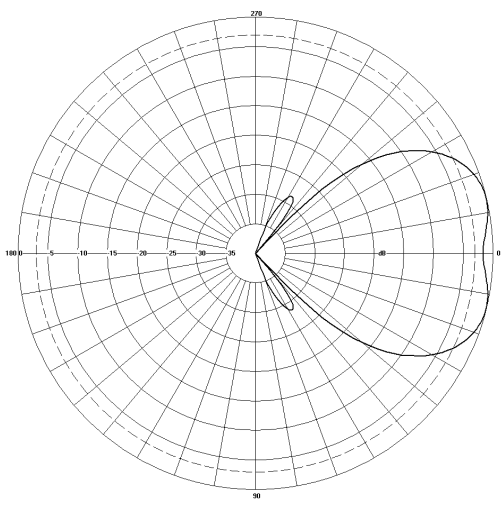
TECHNICAL SPECIFICATION

Electrical Specifications			Array R1			Array Y1		Array Y2		Arrays P1 & P2	
Frequency Range		MHz	698 -790	790 -890	890 -960	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	11.0±0.5	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	11.5	10.0	11.0	10.0	11.0	10.0	11.0
Azimuth Beamwidth		Degree	55°	50°	45°	50°	40°	50°	45°	52°	45°
Azimuth Beam Squint		Degree<	3°								
Elevation Beamwidth		Degree	55°	50°	45°	50°	40°	50°	45°	52°	45°
Electrical Downtilt		Degree	T0°	T0°	T0°	T0°	T0°	T0°	T0°	T0°	T0°
Electrical Downtilt Deviation		Degree<	3°	3°	3°	3°	3°	3°	3°	3°	3°
Impedance		Ohms	50								
VSWR		<	1.5								
Return Loss		dB>	14								
Isolation		dB>	25	25	25	25	25	25	25	25	25
Passive Intermodulation		dBc<	-150	-150	-150	-150	-150	-150	-150	-150	-150
Cross-Polar Discrimination (0°)		dB>	15	15	15	15	15	15	15	15	15
Maximum Effective Power Per Port		W	100	100	100	100	100	100	100	100	100

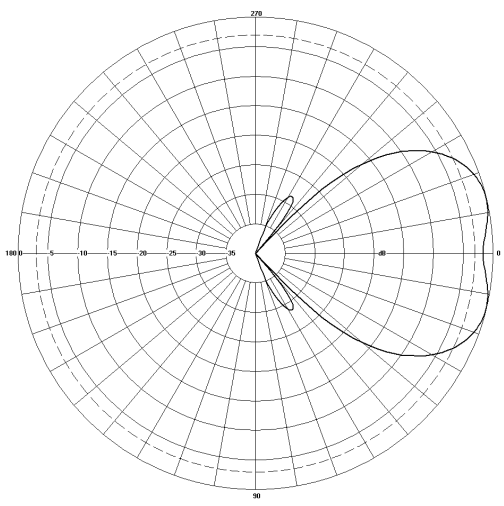
Representative Pattern Files



Low Band



Mid Band/ C-Band



Azimuth | **Elevation**

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

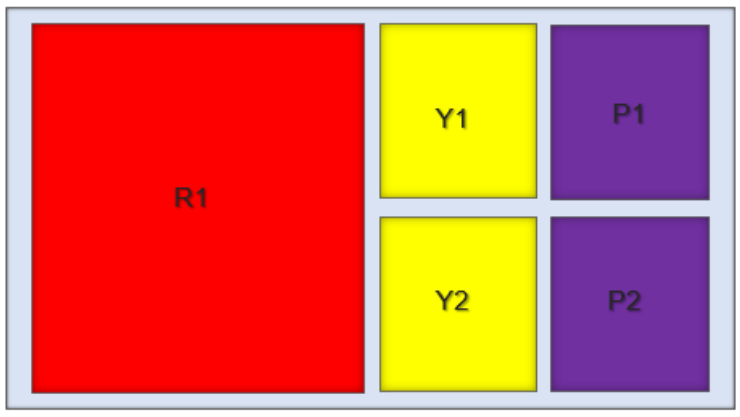
AW3936-T0-F

TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions	mm (in)	925 (36.4) x 1490 (58.7) x 205 (8.1) - (LxWxD)
Net Weight (antenna)	kg (lb)	35.5 (78.3)
Net Weight (mount)	kg (lb)	3 (6.6)
Shipping Weight	kg (lb)	38.5 (84.9)
Connector Type (Female)	-	4.3-10
Connector Position	-	Bottom
Connector Quantity	-	10
Windload Frontal (at Rated Wind Speed: 150km/h)	N	1447 (325)
Windload Lateral (at Rated Wind Speed: 150km/h)	N	205 (46)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	Fibreglass
Radome Colour	-	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

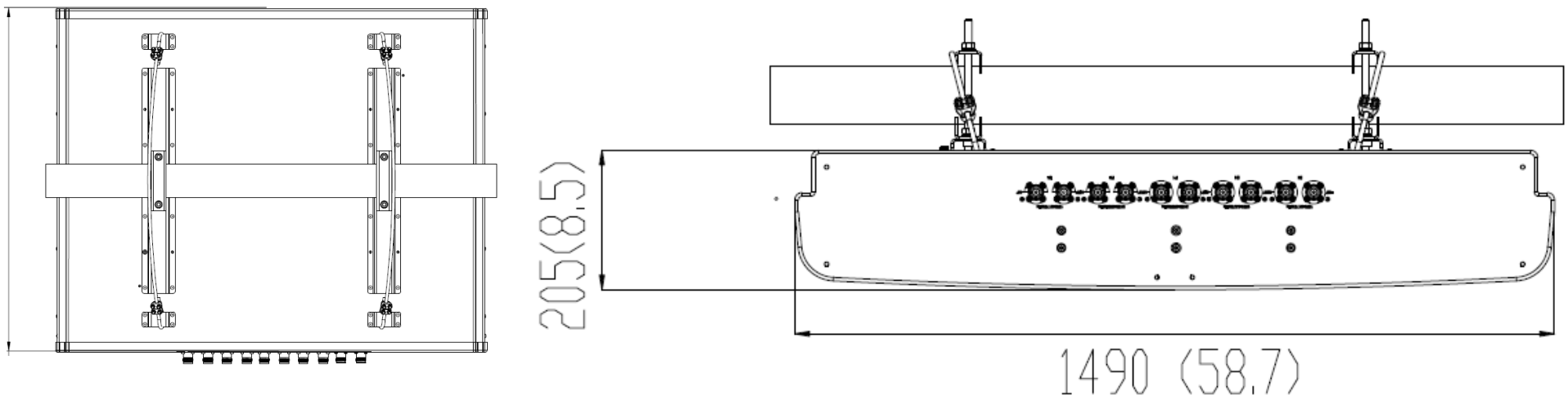


Array	Frequency MHz	Ports
R1	698 – 960	1 – 2
Y1	1695 – 2170	3 – 4
Y2	2300 – 2700	5 – 6
P1	3300 – 4200	7 – 8
P2	3300 – 4200	9 – 10

Note: Colored box sizes do not represent antenna sizes.

AW3936-T0-F

Mechanical Illustration



AW3936-T0-F

Ordering Info

Order Code - Antenna	Description
AW3936-T0-F	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')

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