



## 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

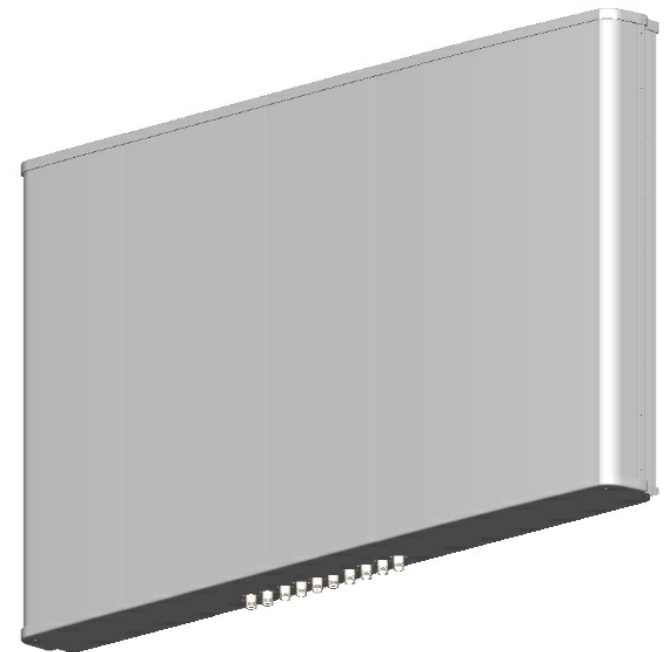
This is a high capacity dual-band panel antenna solution that supports sectional grid seating in stadiums, venues and macro hot spot applications. The antenna features rectangular-shaped patterns with a symmetric 50° azimuth and vertical beamwidth and sharp pattern roll off. The focused radiation allows 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
---------------	---------------------



## FEATURES

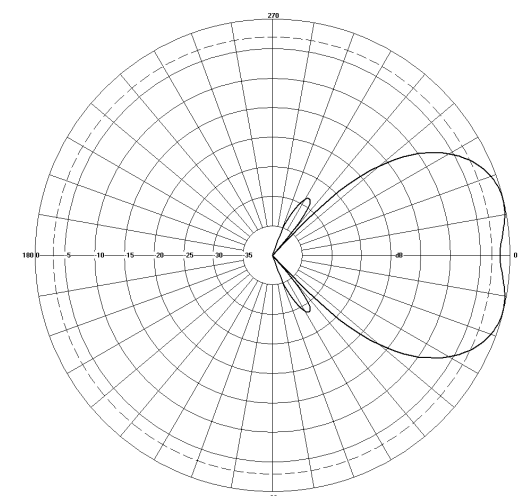
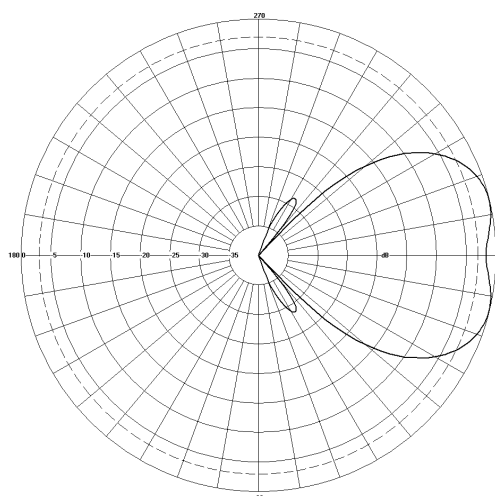
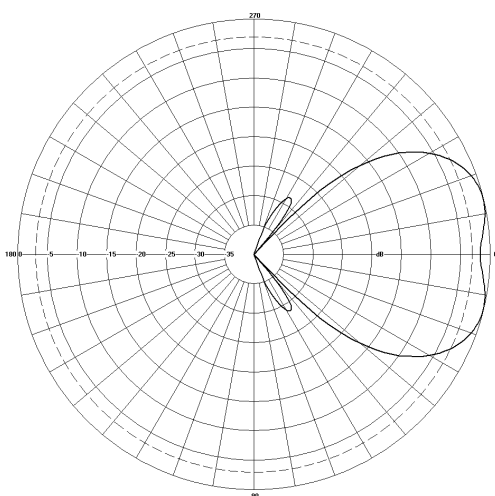
- Low Band 698-960MHz
- Mid Bands 1695-2170MHz & 2300-2700MHz
- High Band 3300-4200MHz
- Rectangular patterns with sharp roll off
- Compact design for low visual impact.
- Mounting bracket with variable tilt (included).
- Manufactured in Ireland.

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

## 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](http://www.alphawireless.com)

## 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)

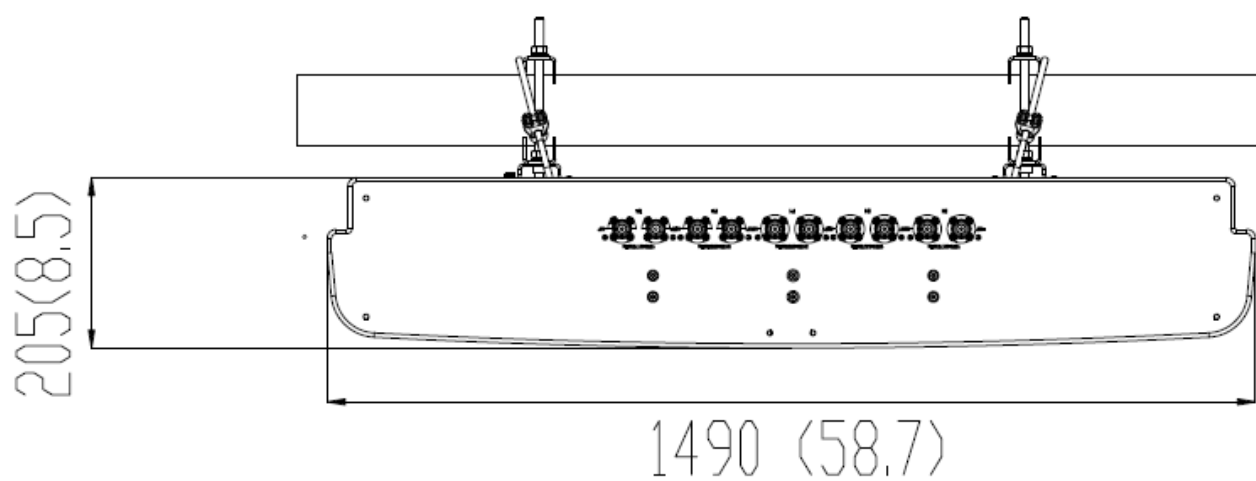
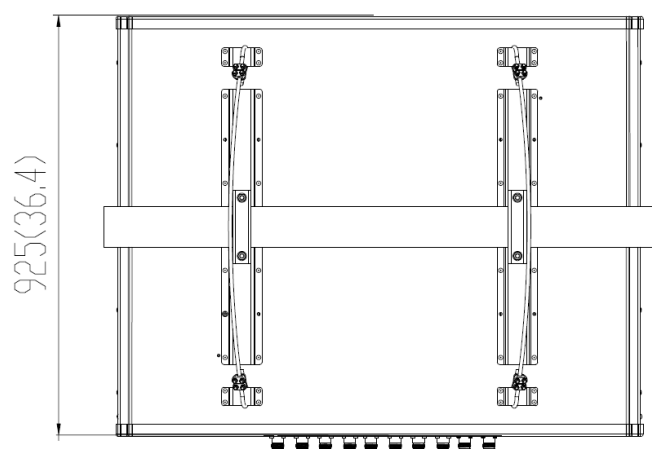
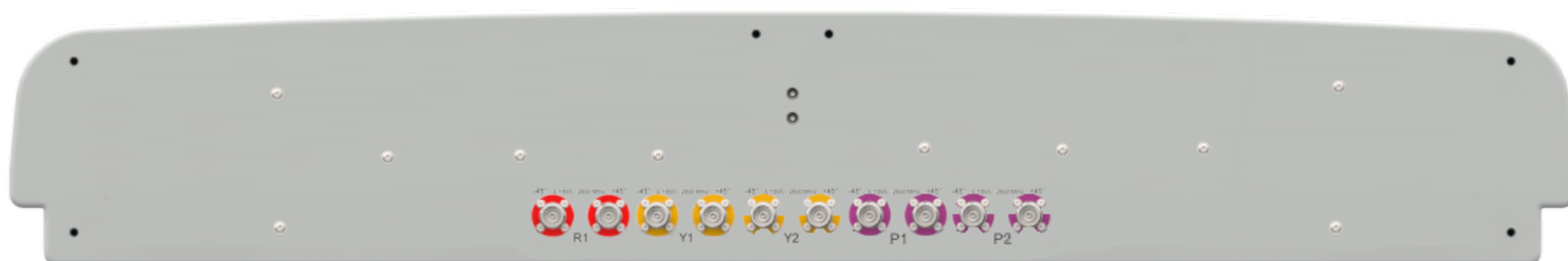
### Array Layout and RET Information



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.

Mechanical Illustration





## Ordering Info

### Order Code - Antenna

AW3936-T0-F

### Order Code - Accessories

AW1012-2-FM-FM

AW1012-2-FM-NM

AW1014-2-FM-TM

PADC 1000

SADC 2000

AW0326-3-PM-PF

AW0326-10-PM-PF

AW0326-25-PM-PF

AW0326-50-PM-PF

### Description

Zero Degrees Fixed Tilt with 4.3/10 Connectors.

### Description

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")

Portable AISG Controller

Site AISG Controller

AISG Jumper Cable Lengths 3 metres (9' 10")

AISG Jumper Cable Lengths 10 metres (32' 9")

AISG Jumper Cable Lengths 25 metres (82')

AISG Jumper Cable Lengths 50 metres (164')

## Enquiries

### Global Headquarters

Ashgrove Business Centre,  
Ballybrittas, Portlaoise,  
R32 D0A, 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.

© Alpha Wireless Limited 2022

Page 5/5