



# DATASHEET

## AW3727-T8-N

Common Name- 2 Port, 1.3M, UWLB, Fixed tilt, 65°, Panel

470-698MHz	2	Fixed	12.5	65°
Frequency	Ports	Tilt	Gain	Beamwidth

### PRODUCT INFORMATION

Developed as a solution for ultra-wide low band 470-698MHz.

### APPLICATION

Alpha Wireless panel antennas provide wireless network operators the highest performance and quality. The ultra-wide low band antenna is designed to be installed in urban environment where low visual impact is required. There are a number of mounting options available making deployments on lamp posts, utility poles, walls and other vertical structures possible. The 2 port antenna provides 2x2 MIMO for improved data throughput.

### STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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### FEATURES

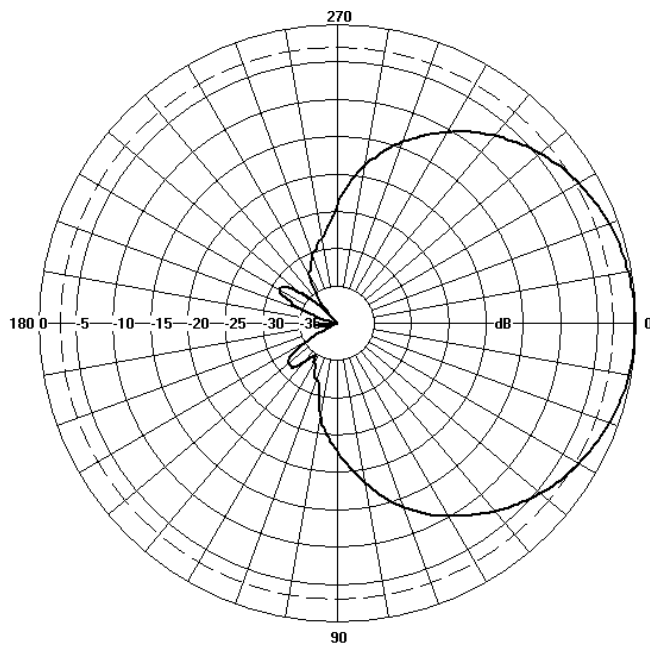
- Ultra-Wide low band antenna 470-698MHz
- Dual Cross polarization antenna +/-45°
- Mounting bracket with variable tilt
- Manufactured in Ireland

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

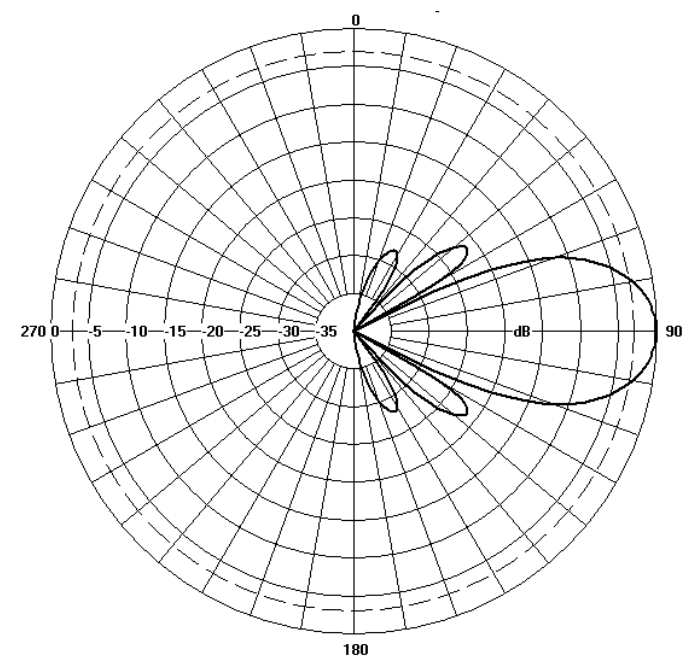
## TECHNICAL SPECIFICATION

Electrical Specifications			
Frequency Range	MHz	470 - 698MHz	
Polarisation	Degree	+/- 45° Slant Linear	
Gain	Basta	dBi	12.0±0.5
	Max	dBi	12.5
Azimuth Beamwidth	Degree	65°	
Elevation Beamwidth	Degree	25°	
Electrical Downtilt	Degree	T8°	
Impedance	Ohms	50	
VSWR	<	1.5	
Return Loss	dB>	14	
Isolation	dB>	28	
Front to Back Ratio: Total Power +/-30°	dB>	25	
Passive Intermodulation	dBc<	-150	
Cross-Polar Discrimination	dB>	20	
Maximum Effective Power Per Port	W	300	

## Representative Pattern Files



Azimuth



Elevation

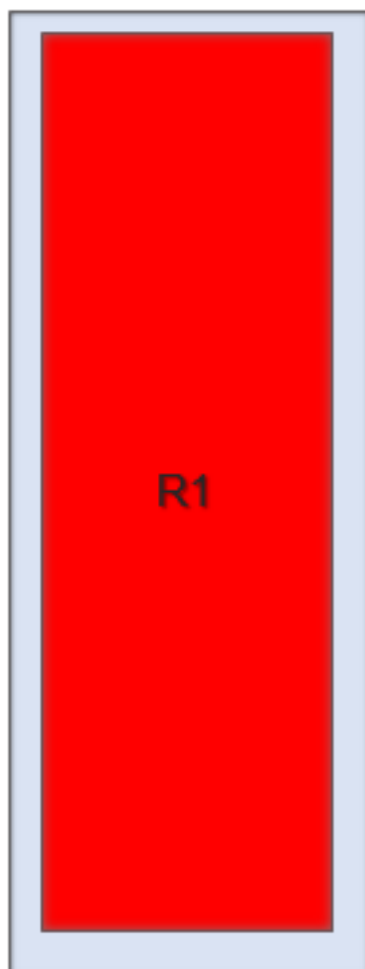
For radiation pattern files, please login at [www.alphawireless.com](http://www.alphawireless.com)

## TECHNICAL SPECIFICATION

## Mechanical Specifications

Dimensions	mm (in)	1250 (49.4) x 412 (16.2) x 136 (5.3) - (LxWxD)
Packing Size (LxWxD)	mm (in)	1400(55.1) x 500(19.6) x 250(9.8)
Net Weight (antenna)	kg (lb)	10 (22.0)
Net Weight (mount)	kg (lb)	1.5 (3.3)
Shipping Weight	kg (lb)	11.5 (25.35)
Connector Type (Female)	-	4.3-10
Connector Quantity	-	2
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	530 (120)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	204 (45)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
Radome Colour	RAL	7035 (light grey)
Product Compliance Environmental	-	RoHS
Lightning Protection	-	DC Grounded
Cold Temperature Survival	°C (°F)	-40 (-40)
Hot Temperature Survival	°C (°F)	70 (158)

## Array Layout and RET Information

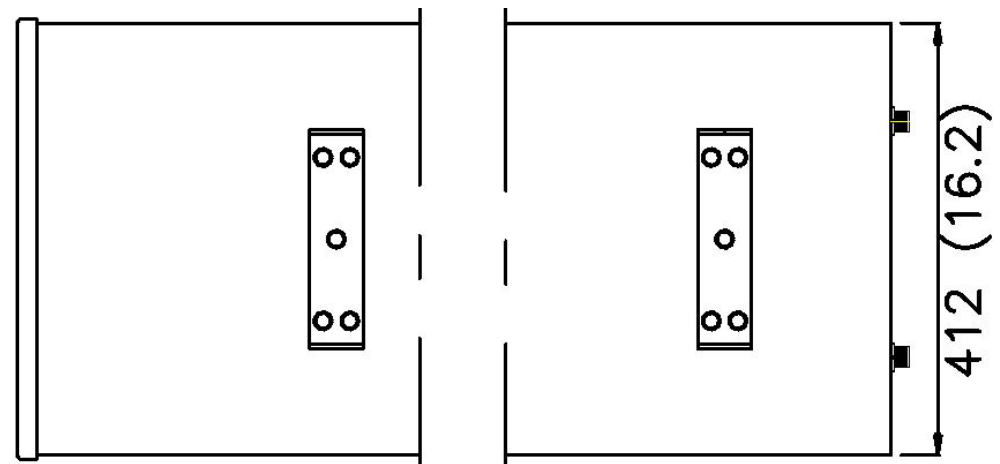
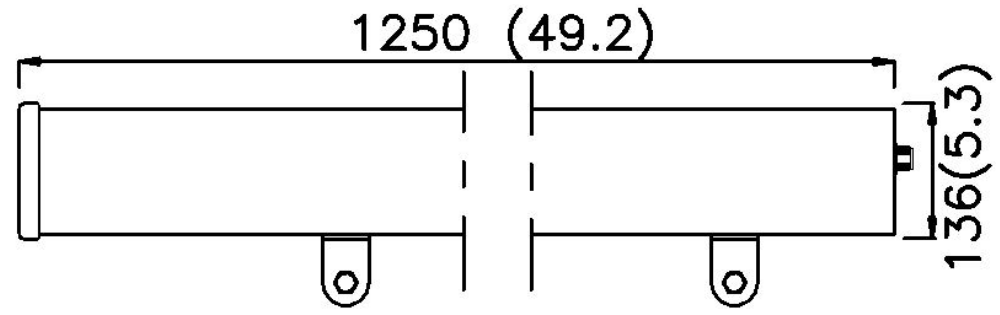
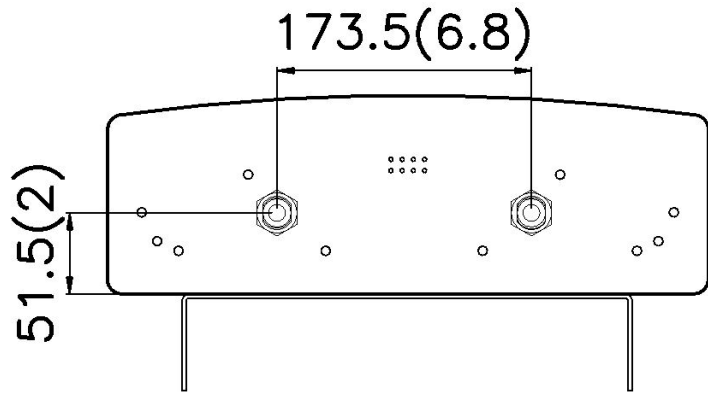


Array	Frequency MHz	Ports
R1	470 – 698	1 – 2

*Note: Coloured box sizes do not represent antenna sizes.*

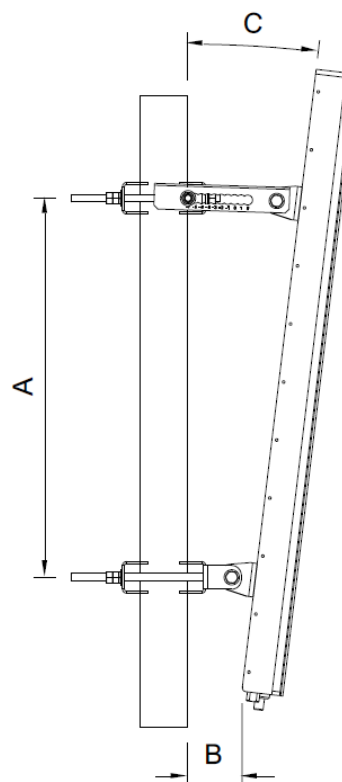
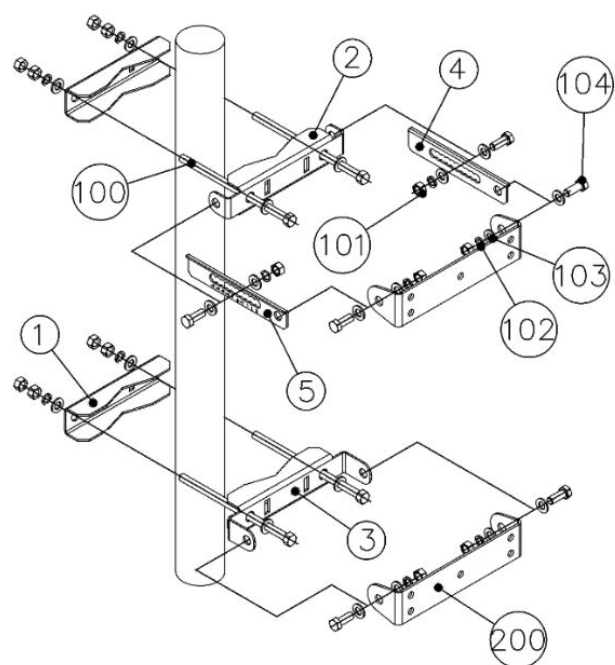
## Mechanical Illustration

All measurements are in mm (in)



**TECHNICAL SPECIFICATION**  
**Mounting Bracket Kit**

CL-V-110 M12 Mount Kit (Mount Kit included with antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
+1° to -7°	Stainless Steel	50mm-115mm (2" to 4.5")

**Ordering Info**

**Order Code - Antenna**

AW3727-T8-N

**Description**

Eight Degrees Fixed Tilt with N-Type Connectors

**Order Code - Accessories**

- AW1012-2-FM-FM
- AW1012-2-FM-NM
- AW1014-2-FM-TM

**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")

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