



DATASHEET

AW3923-T0-F

Common Name- 4 Port, 29.5", 65° C-Band Panel

3300-4200MHz	4	Fixed	18	65°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This solution was developed for fixed wireless applications to cover the extender C-band 3300-4200MHz. This four port antenna supports 4x4 MIMO applications.

APPLICATION

Alpha Wireless panel antennas provide wireless network operators the highest performance and quality. Panel antennas are generally used in sectorized applications. These antennas are designed for optimal radiation patterns improving overall network performance. A horizontally spaced array provides enhance MIMO performance with full 4x4 operation or receive diversity RF functions.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

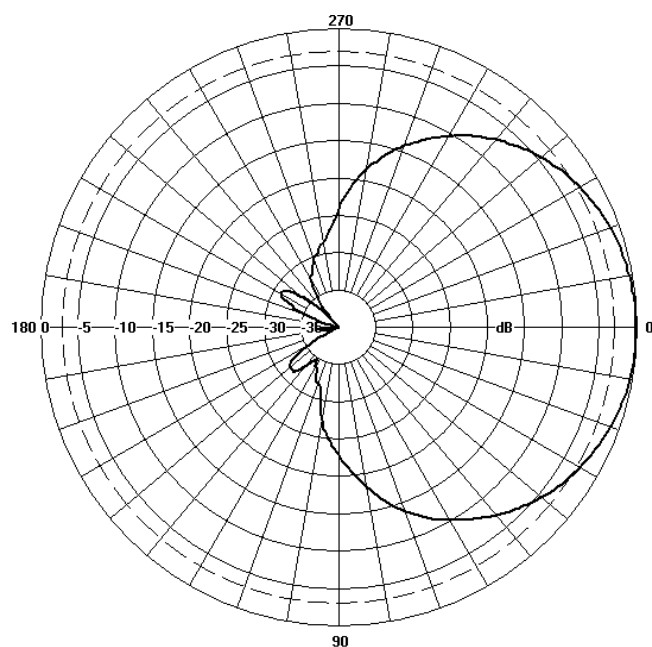
- Wide Band antenna covering 3300-4200MHz
- 4x4 MIMO for maximum throughput
- Fixed electrical down tilt
- Mounting bracket with variable tilt (included).

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

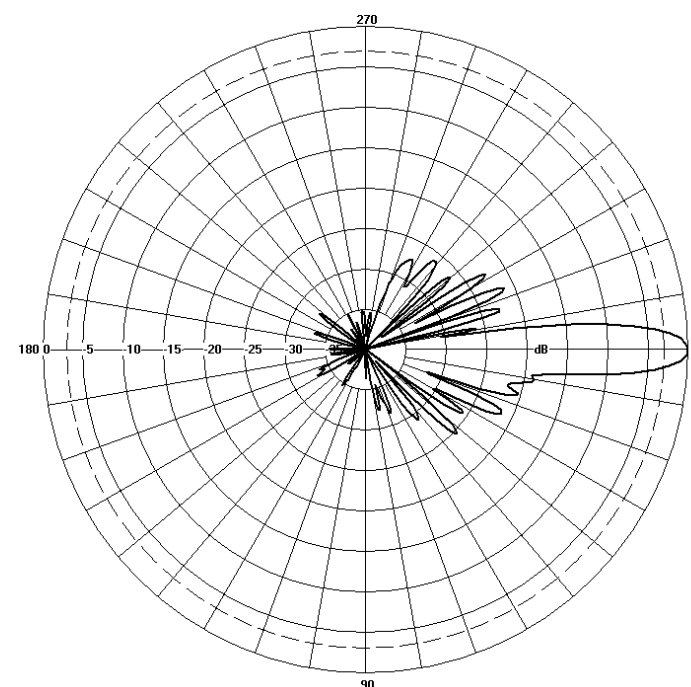
TECHNICAL SPECIFICATION

Electrical Specifications				
Frequency Range		MHz	3300 - 3800	3800 - 4200
Polarisation		Degree	+/- 45° Slant Linear	
Gain	Basta	dBi	17.5±0.5	17.5±0.5
	Max	dBi	18	18
Azimuth Beamwidth		Degree	65°	
Azimuth Beam Squint		Degree<	3°	
Elevation Beamwidth		Degree	7°	7°
Electrical Downtilt		Degree	T0°	
Electrical Downtilt Deviation		Degree<	1°	
Impedance		Ohms	50	
VSWR		<	1.5	
Return Loss		dB>	14	
Isolation		dB>	25	
Front to Back Ratio: Total Power +/-30°		dB>	30	
Upper Sidelobe Suppression, Peak to 20°		dB>	18	
Cross-Polar Discrimination		dB>	16	
Maximum Effective Power Per Port		W	150	

Representative Pattern Files



Azimuth



Elevation

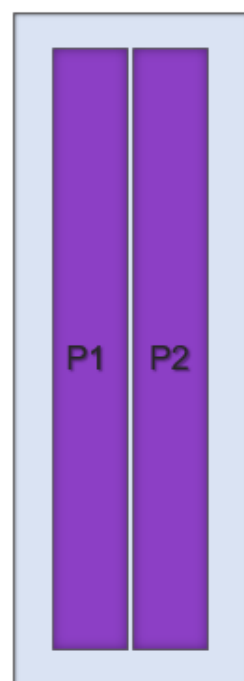
For radiation pattern files, please login at www.alphawireless.com

TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions	mm (in)	750 (29.5) x 280 (11) x 85 (3.3) - (LxWxD)
Packing Size (LxWxD)	mm (in)	823 (32.4) x 337 (13.2) x 175 (6.9)
Net Weight (antenna)	kg (lb)	4.3 (9.6)
Net Weight (mount)	kg (lb)	1.5 (3.4)
Shipping Weight	kg (lb)	5.8 (12.8)
Connector Type (Female)	-	4.3-10
Connector Quantity	-	4
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	220 (50)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	80 (18)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	ASA
Radome Colour	RAL	7035
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



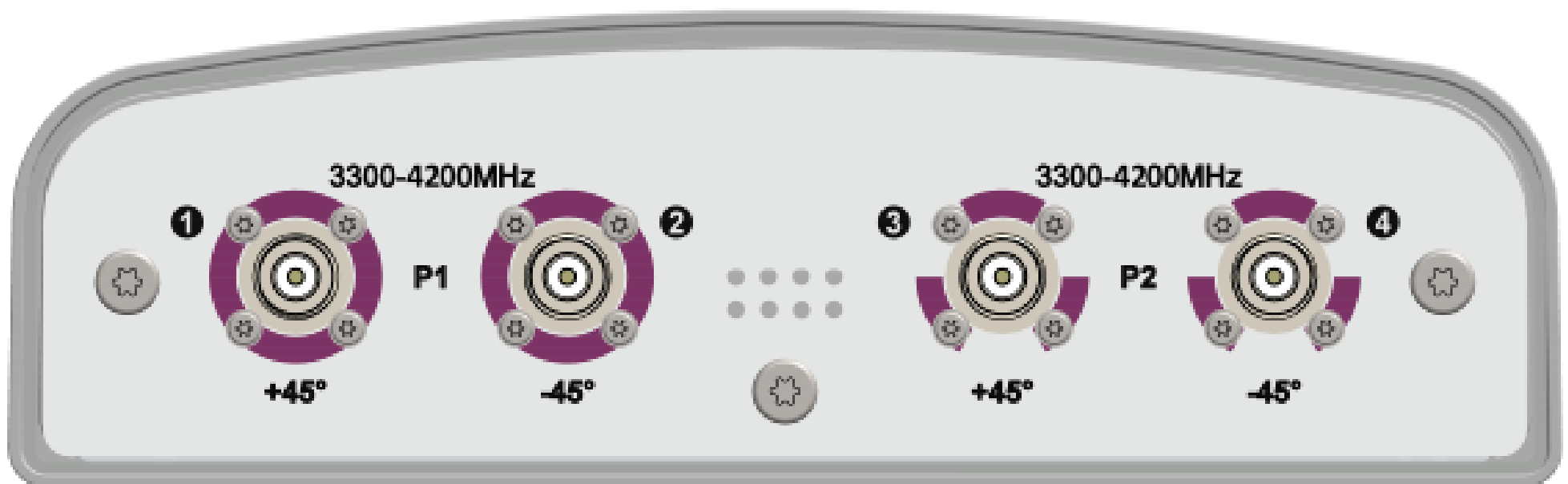
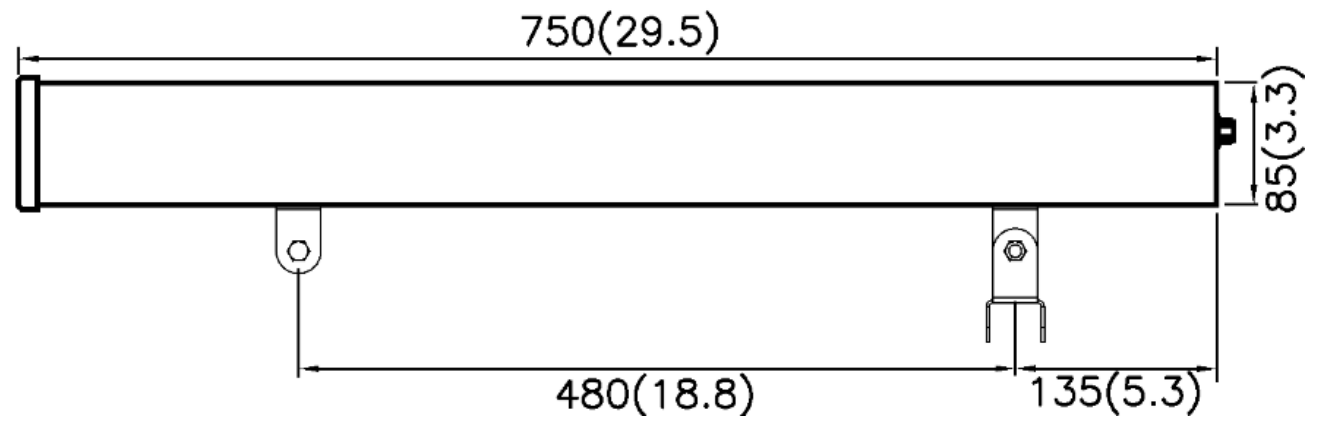
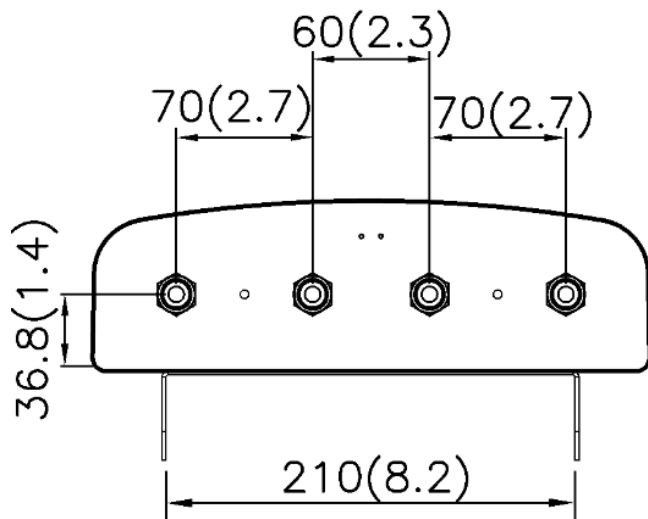
Array	Frequency MHz	Ports
P1	3300 - 4200	1 - 2
P2	3300 - 4200	3 - 4

Note: Coloured box sizes do not represent antenna sizes.

TECHNICAL SPECIFICATION

Mechanical Illustration

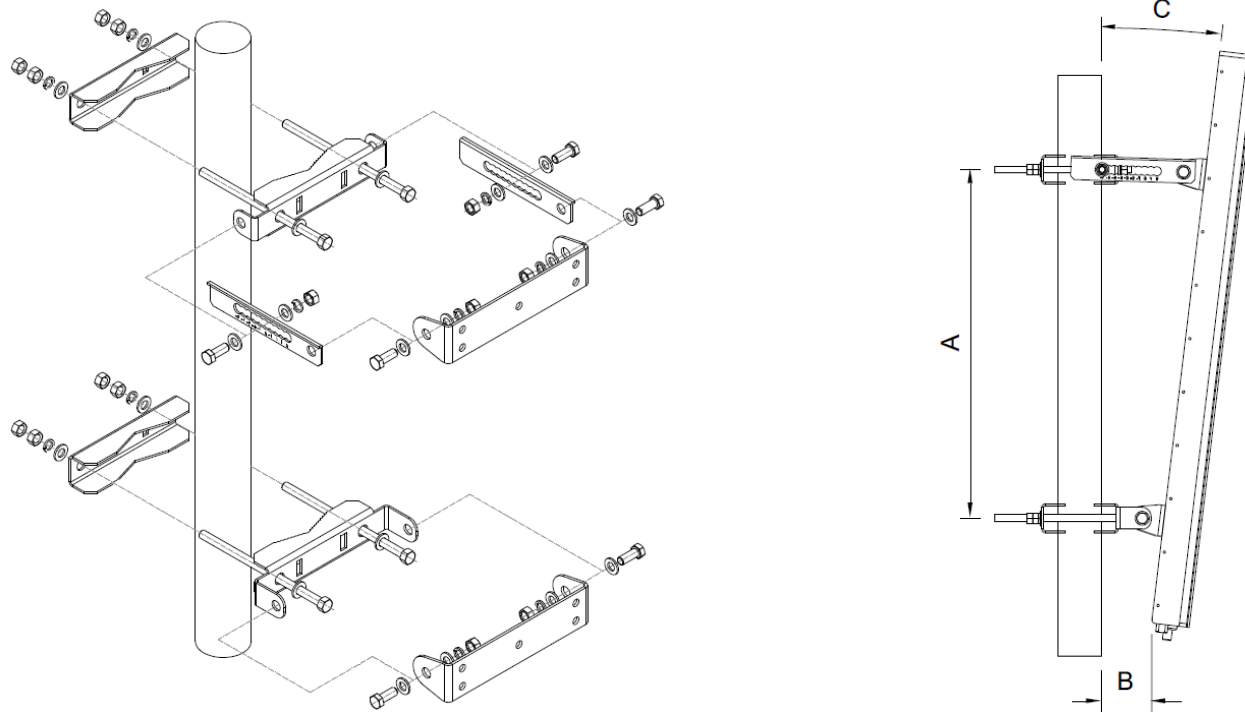
All measurements are in mm (in)



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-110 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

AW3923-T0-F

Description

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

Order Code - Antenna

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

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