



# DATASHEET

## AW3924-T0-F

Common Name- 4 Port, 11", C-Band, 65° Small Cell

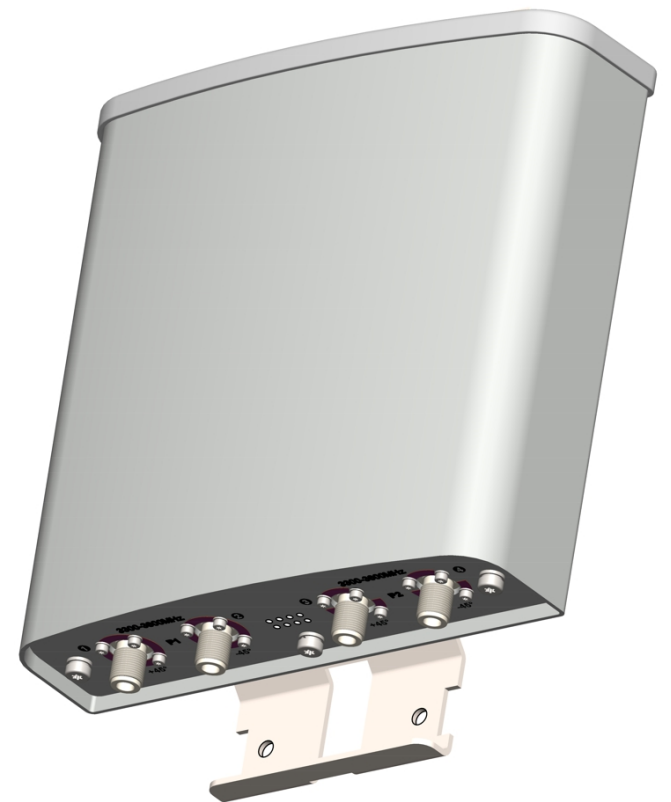
3300-4200MHz	4	Fixed	13	65°
Frequency	Ports	Tilt	Gain	Beamwidth

### PRODUCT INFORMATION

This ultracompact form factor solution was developed for fixed wireless applications to cover the extended C-band 3300-4200MHz. This four port small cell antenna offers a wide elevation beamwidth with a fixed electrical downtilt.

### APPLICATION

Alpha Wireless small cell provides sector coverage whilst in an ultra-compact radome design. The wide-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 4 port antenna supports 4X4 MIMO for improved data throughput with options for various fixed tilt settings.



### STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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### FEATURES

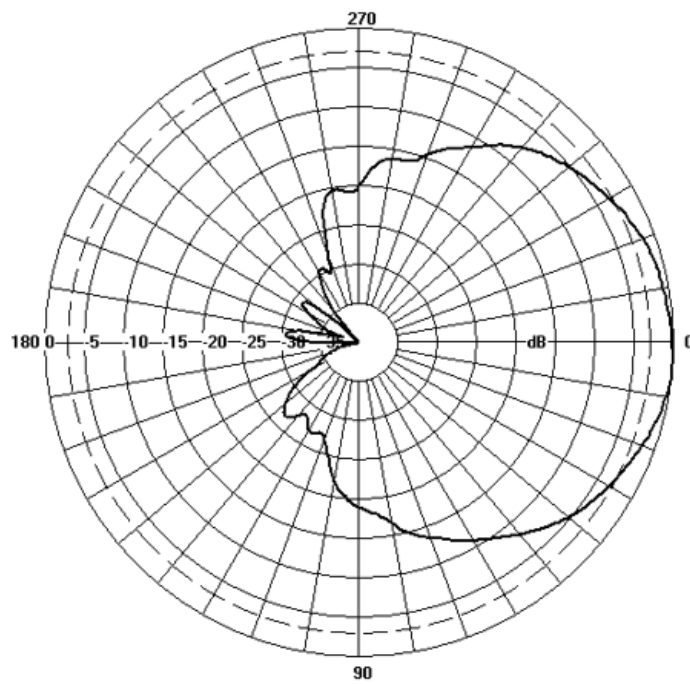
- Wide Band antenna covering 3300-4200MHz
- Compact design for Small Cell deployment - Low visual impact
- Supports 4x4 MIMO for improved throughput
- Dual Cross polarization antenna +/- 45

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

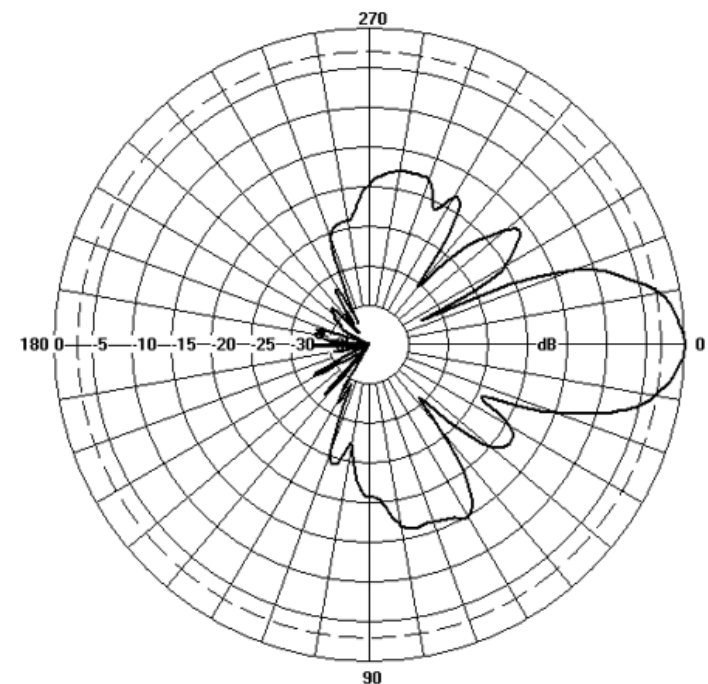
## TECHNICAL SPECIFICATION

Electrical Specifications				
Frequency Range		MHz	3300 - 3800	3800 - 4200
Polarisation		Degree	+/- 45° Slant Linear	
Gain	Basta	dBi	12.0±0.5	12.5±0.5
	Max	dBi	12.5	13.0
Azimuth Beamwidth		Degree	65°	
Azimuth Beam Squint		Degree<	3°	
Elevation Beamwidth		Degree	22°	20°
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>	25	
Cross-Polar Discrimination		dB>	16	
Maximum Effective Power Per Port		W	50	

## Representative Pattern Files



Azimuth



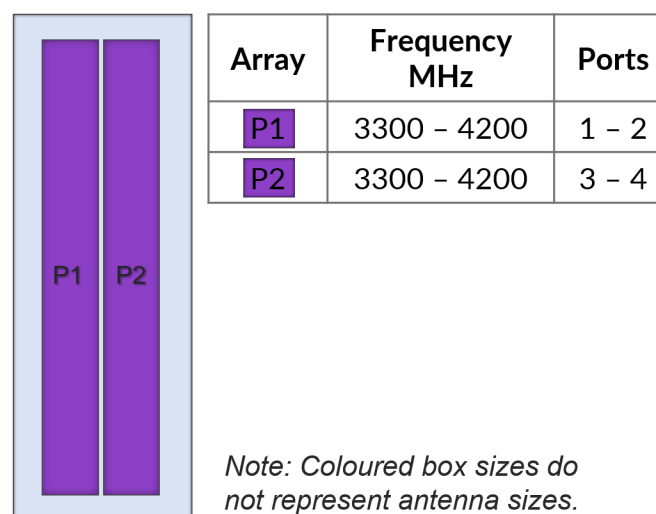
Elevation

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

## TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions	mm (in)	285 (11.2) x 280 (11) x 85 (3.3) - (LxWxD)
Packing Size (LxWxD)	mm (in)	415 (16.3) x 337 (13.3) x 165 (7)
Net Weight (antenna)	kg (lb)	2.5 (5.5)
Net Weight (mount)	kg (lb)	1.5 (3.3)
Shipping Weight	kg (lb)	4 (8.8)
Connector Type (Female)	-	4.3-10
Connector Quantity	-	4
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	105 (24)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	34 (8)
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)

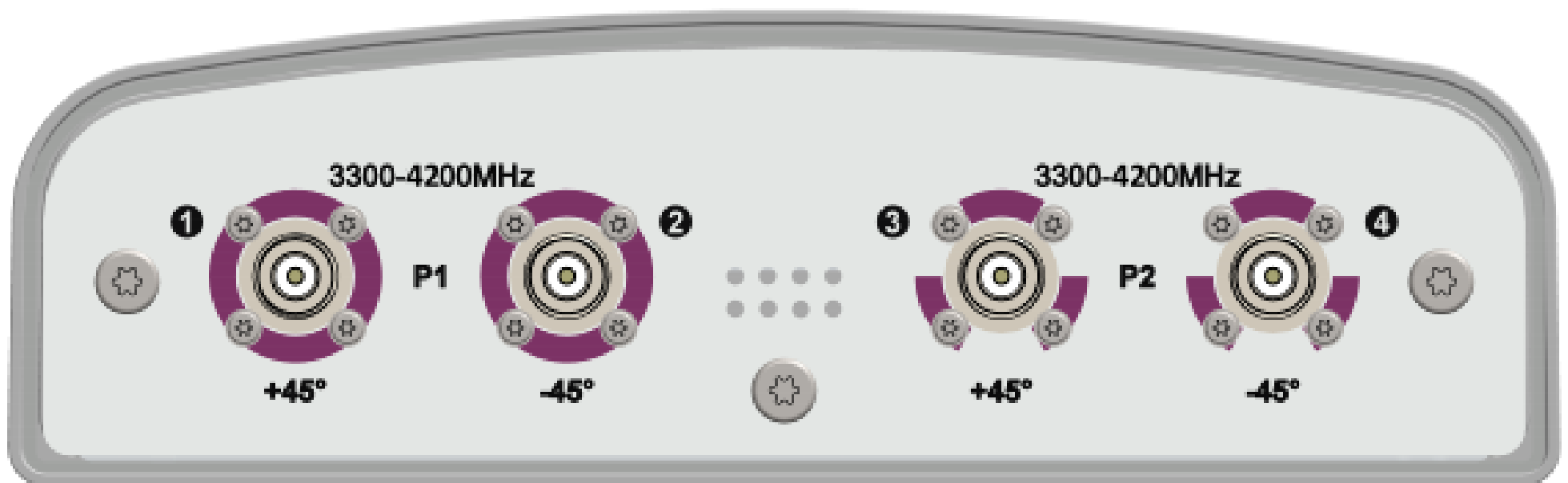
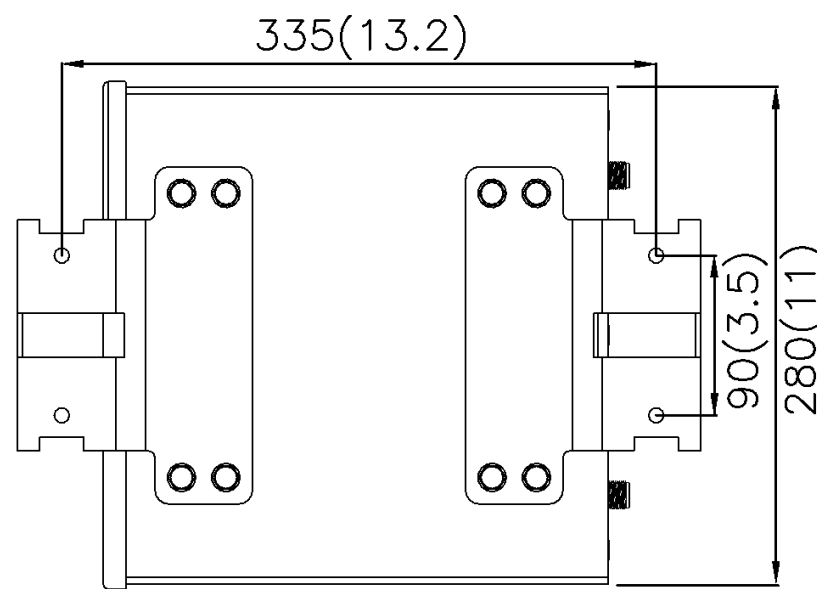
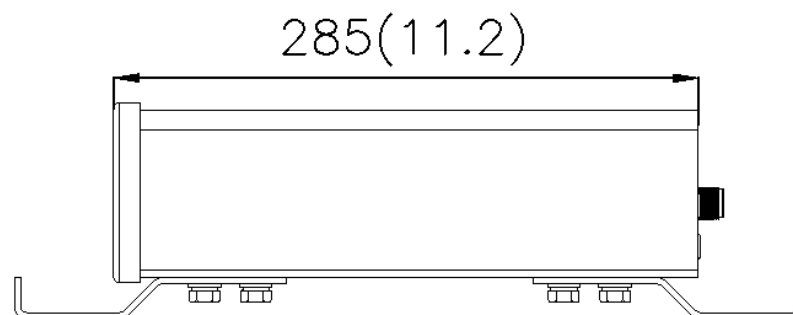
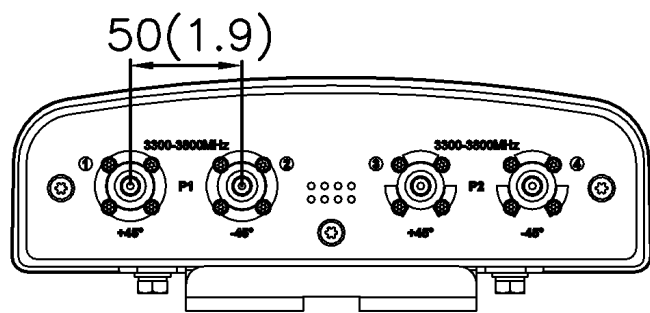
## Array Layout and RET Information



TECHNICAL SPECIFICATION

Mechanical Illustration

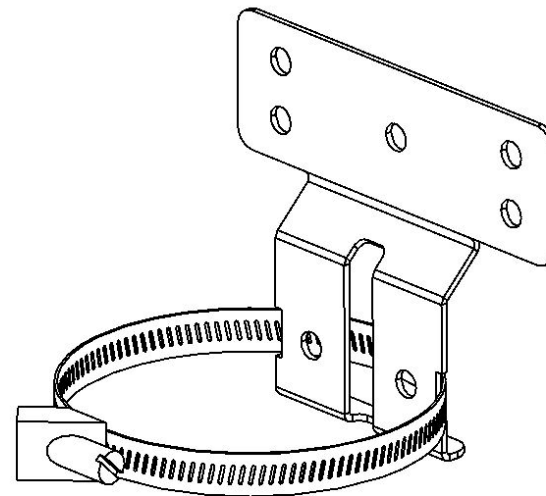
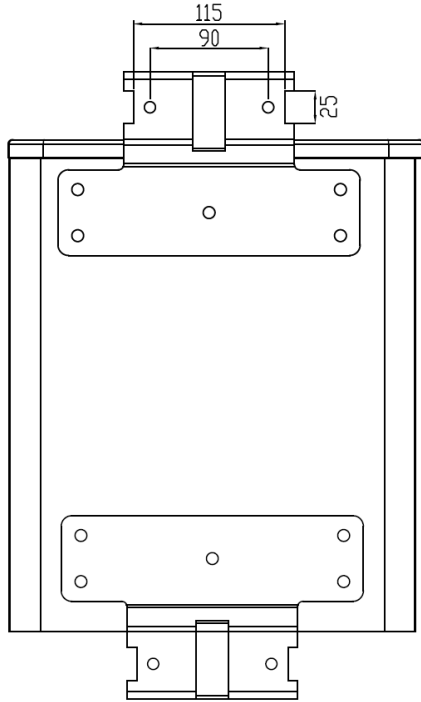
All measurements are in mm (in)



## TECHNICAL SPECIFICATION

### Mounting Bracket Kit

CL-V-158 (Mounting 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

AW3924-T0-F

#### Description

AW1012-2-FM-FM

AW1012-2-FM-NM

AW1014-2-FM-TM

#### 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")

## Enquiries

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