



# DATASHEET

## AW3826-T0-F

**Common Name-** 2 Port, 8", Band 41 , 42, 43 & 48 - 360° Omni

2496-2690MHz	2	Fixed	5.5	360°
3300-4200MHz	2	Fixed	7.0	360°
Frequency	Ports	Tilt	Gain	Beamwidth

### PRODUCT INFORMATION

The AW3826-T0-F is a 2-port wideband omnidirectional small cell antenna designed for use in strand mount solutions. This antenna provides dual  $\pm 45^\circ$  slant polarization with both ports supporting the 2496 – 2690 MHz and 3300 – 3800 MHz frequency ranges. The AW3826-T0-F is designed to be mounted with the connector ports located below the radome so that the drain holes are pointed towards the ground. The AW3826-T0-F delivers stable gain across a dual-bands and in a compact 8” length radome. The AW3826-T0-F provides omnidirectional coverage for 4G and 5G private networks using the 2.5GHz S-band, Broadband Radio Service (BRS), and Education Broadband Service (EBS) spectrums and 3.5 GHz Citizens Broadband Radio Service (CBRS) and C-band spectrum. This antenna supports LTE bands 41, 42, 43, and 48 and 5G NR bands n7, n41, n77, and n78. For stand mount applications requiring the antenna to be mounted with connectors pointed up, use the AW3776 configuration instead which has equivalent antenna performance and functionality.



### APPLICATION

The AW3826 was designed as a compact and discrete antenna. The AW3826 is similar in design to the AW3776 but is to be mounted in the opposite orientation than AW3776. The AW3826 must be mounted with the radome above the connector plate as the drain holes are located in the connector plate. The AW3776 must be mounted with the radome located below the connector plate as the drain holes are located in the radome.

### FEATURES

- Wide Band antenna covering multiple bands between 2.5 - 4.2GHz
- Supports LTE bands 41, 42, 43, and 48 and 5G NR bands n7, n41, n77, and n78.
- Designed for Strand Mount Application
- Manufactured in Ireland.

### STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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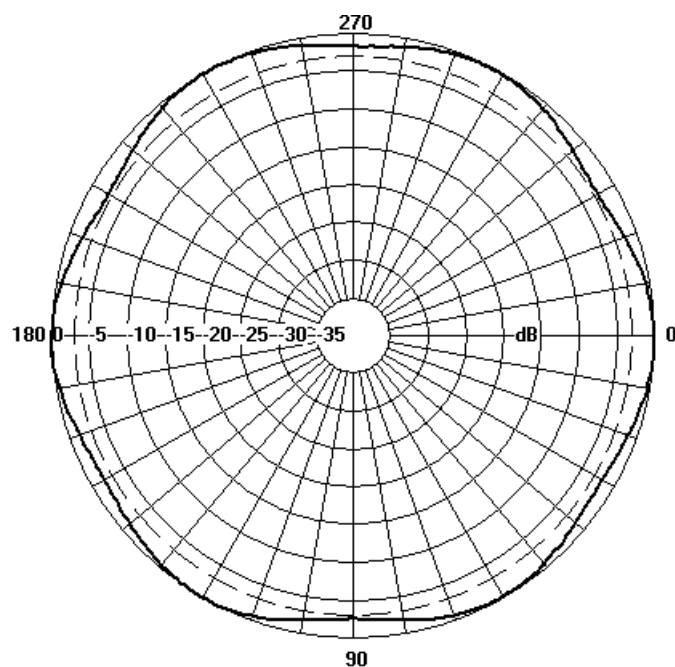


*The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 9.6.*

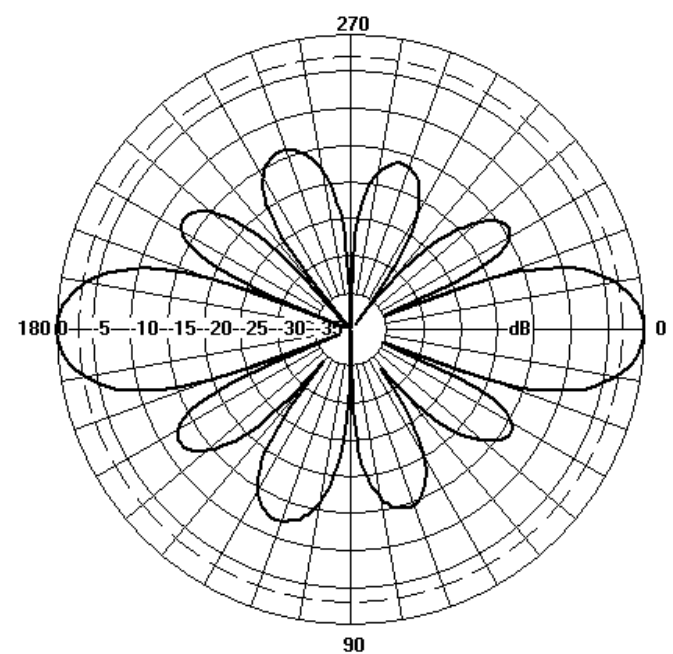
## TECHNICAL SPECIFICATION

Electrical Specifications				
Frequency Range		MHz	2496 - 2690	3300 - 4200
Polarisation		Degree	+/- 45° Slant Linear	
Gain	Basta	dBi	5.0±0.5	6.5±0.5
	Max	dBi	5.5	7.0
Azimuth Beamwidth		Degree	360	
Elevation Beamwidth		Degree	33°	25°
Electrical Downtilt		Degree	T0°	
Electrical Downtilt Deviation		Degree<	3°	
Impedance		Ohms	50	
VSWR		<	1.5	
Return Loss		dB>	14	
Isolation		dB>	22	
Passive Intermodulation		dBc<	150	
Upper Sidelobe Suppression, Peak to 20°		dB>	n/a	
Cross-Polar Discrimination		dB>	8	
Maximum Effective Power Per Port		W	50	

## Representative Pattern Files



Azimuth



Elevation

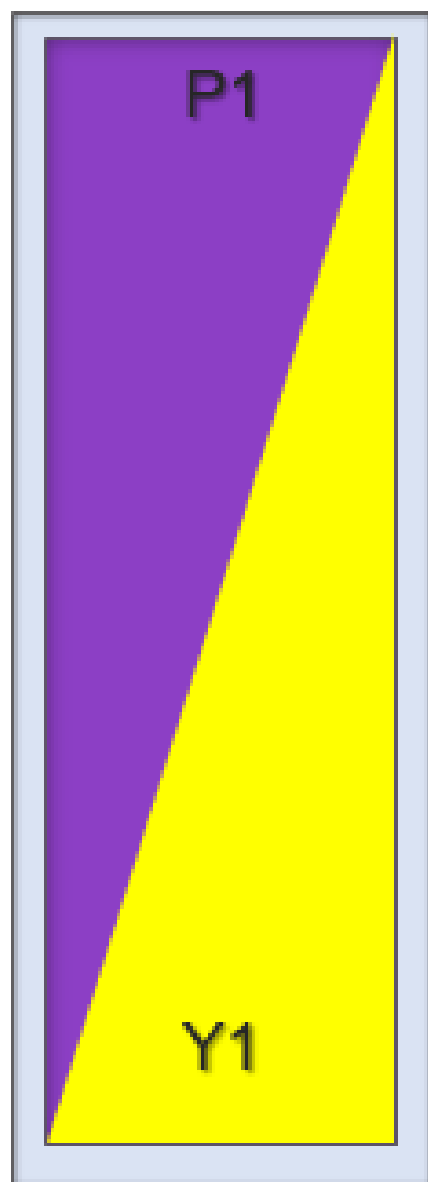
For radiation pattern files, please login at [www.alphawireless.com](http://www.alphawireless.com)

## TECHNICAL SPECIFICATION

## Mechanical Specifications

Dimensions	mm (in)	201 (8.2) x 116 (4.5) - (LxØ)
Packing Size (LxWxD)	mm (in)	350 (13.7) x 180 (7.1) x 180 (7.1)
Net Weight (antenna)	kg (lb)	0.9 (2.0)
Net Weight (mount)	kg (lb)	1.0 (2.2)
Shipping Weight	kg (lb)	5.0 (11.0)
Connector Type (Female)	-	4.3-10
Connector Quantity	-	2
Connector Position	-	Top or Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	20 (4.5)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	20 (4.5)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	ASA Capped ABS
Radome Colour	RAL	9010
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



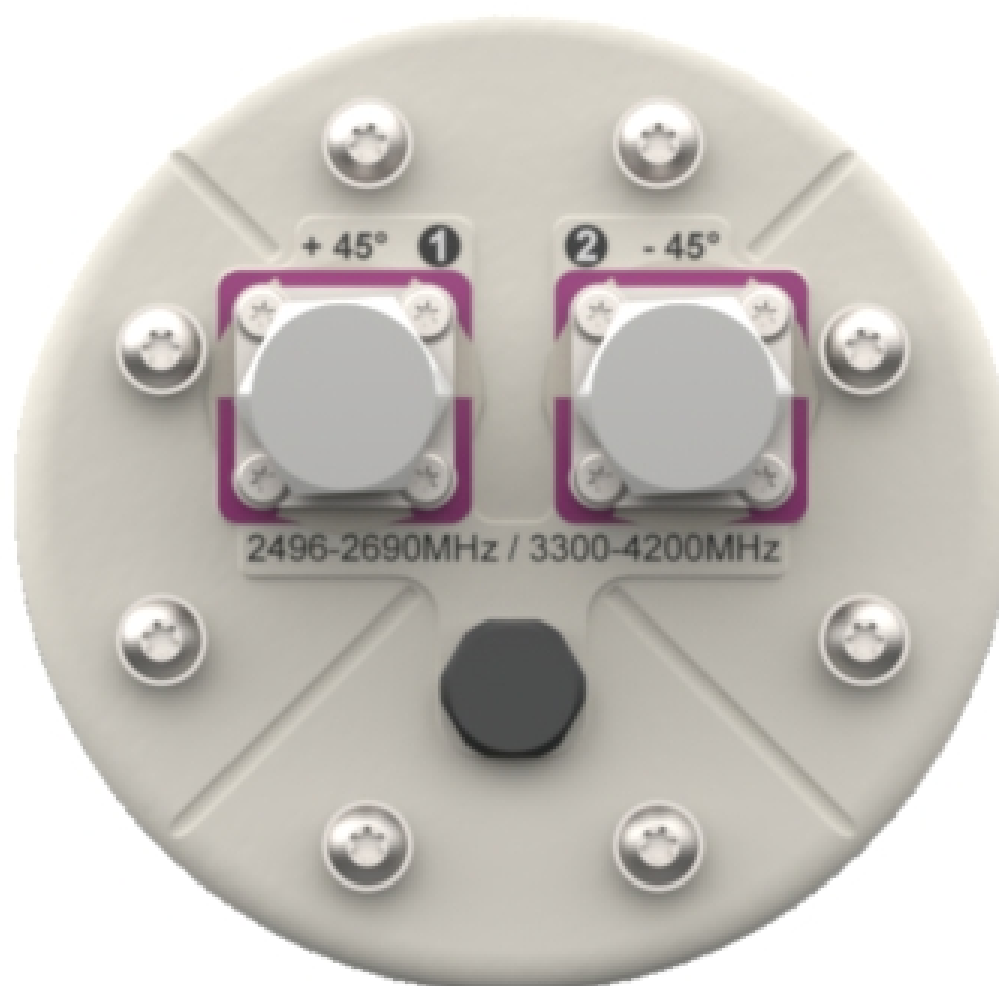
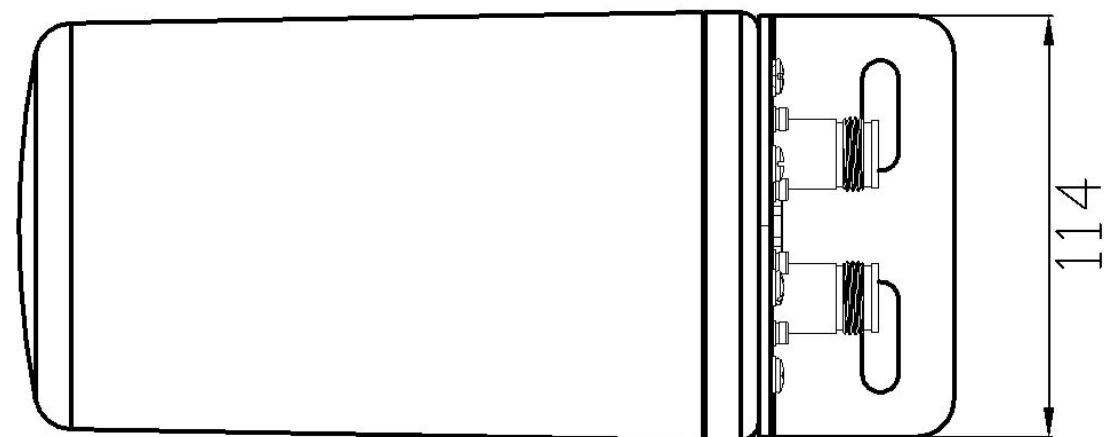
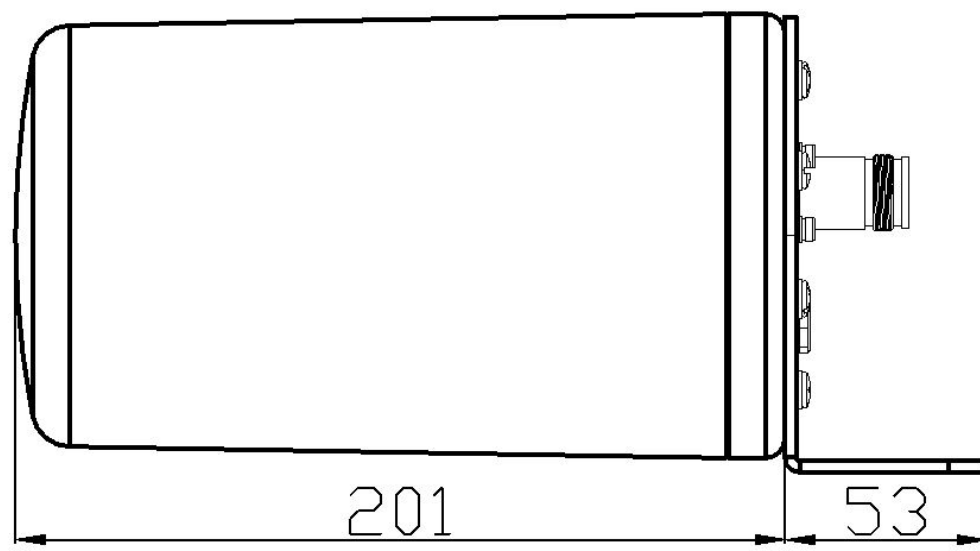
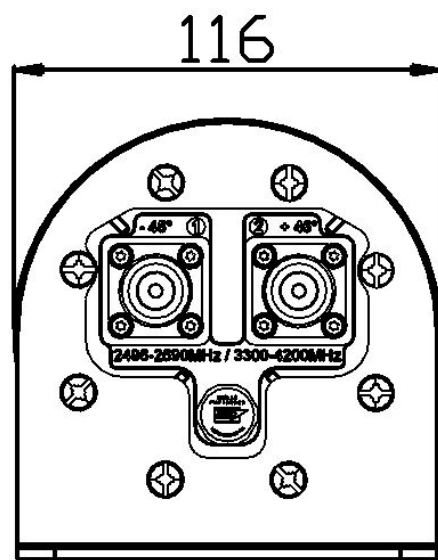
Array	Frequency MHz	Ports
Y1	2496 - 2690	1-2
P1	3300 - 4200	1-2

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

## TECHNICAL SPECIFICATION

### Mechanical Illustration

All measurements are in mm (in)

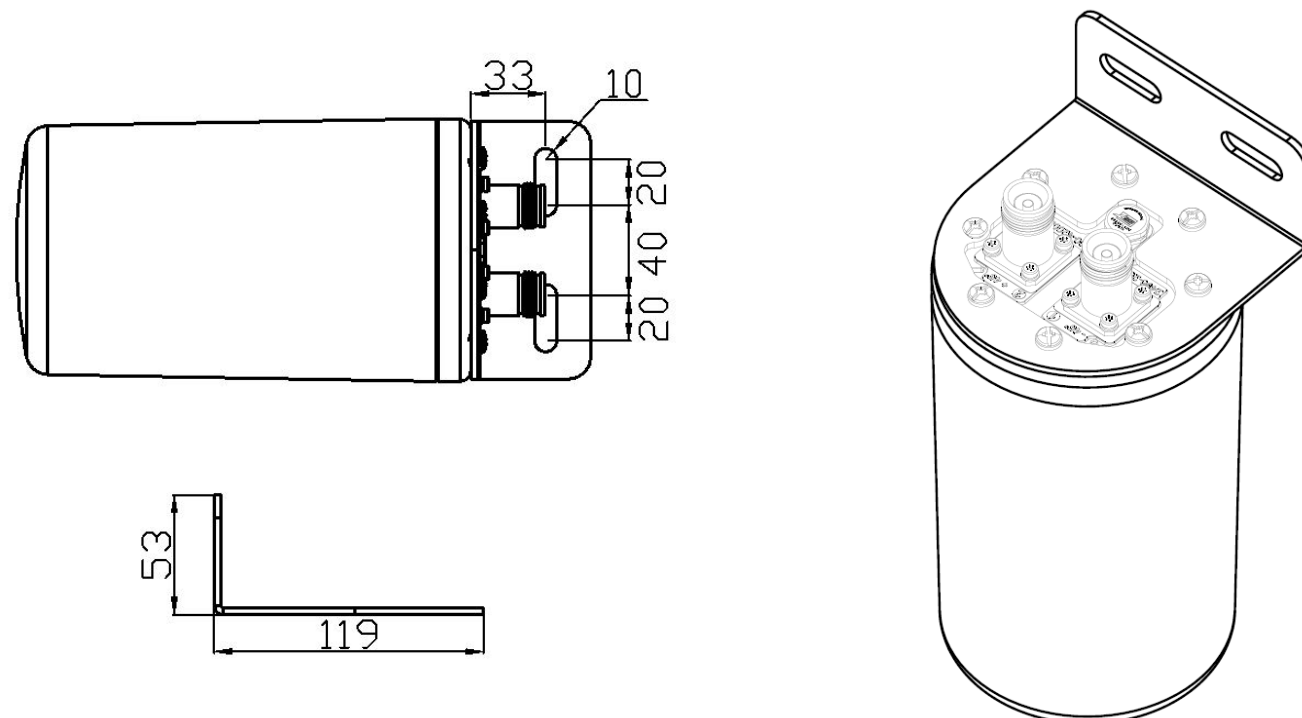




## TECHNICAL SPECIFICATION

## Mounting Bracket Kit

CL-V-162 Stubby Antenna Bracket (Mount Kit included with antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	n/a

## Ordering Info

## Order Code - Antenna

AW3826-T0-F

## Description

Zero Degrees Fixed Tilt with 4.3-10 Connectors.

Must be mounted with connectors located below radome.

AW3776-T0-F

Zero Degrees Fixed Tilt with 4.3-10 Connectors.

Must be mounted with connectors located above the radome.

## Description

AW1012-2-FM-FM

## Order Code - Antenna

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")

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