



... Changing the way
wireless networks are built

+

SMALL CELL CATALOGUE

SMALL CELL

A family of ultra-compact antennas which allows you to deploy coverage and capacity anywhere. Our small cells cover a wide variety of applications including lamp posts, utility poles and walls and deliver cost-effective capacity to urban and rural areas.

		Frequency	Ports	Tilt	Gain	Beamwidth	
+	AW3088	2300-2700MHz	2	Fixed	11.0	360°	PG 3 - 6
+	AW3089	3300-3800MHz	2	Fixed	11.0	360°	PG 7 - 10
+	AW3348	2496-2690MHz	2	Fixed	12.5	65°	PG 11 - 14
+	AW3372	3300-3800MHz	2	Fixed	12.5	65°	PG 15 - 18
+	AW3373	3300-3800MHz	2	Fixed	11.0	90°	PG 19 - 22
+	AW3374	3400-3800MHz	2	Fixed	7.0	360°	PG 23 - 26

Canister

Panel

Small Cell

Concealment

	Frequency	Ports	Tilt	Gain	Beamwidth	
+ AW3387	1710 - 2690MHz	2	Fixed	12.5	65°	PG 27 - 30
+ AW3388	1710-2690MHz	2	Fixed	6.7	360°	PG 31 - 34
+ AW3397	1710 - 2690MHz	4	Fixed	12.2/ 12.7	65°	PG 35 - 38
+ AW3398	1710-2690MHz	4	Fixed	6.6/ 6.9	360°	PG 39 - 42
+ AW3477-S1-G	2496-2690MHz	2	MET	8.5	360°	PG 43 - 46
+ AW3499	3400-3800MHz	4	Fixed	6.5	360°	PG 47 - 50
+ AW3613-S1-G	2496-2690MHz	4	MET	8.5	360°	PG 51 - 54
+ AW3625	3300-3800MHz	2	MET	8.5	360°	PG 55 - 58
+ AW3639	1695-2690/3400 -3800/5150-5925MHz	8	eRET	14/10 /6	65°	PG 59 - 62
+ AW3672	806-896MHz	2	Fixed	6.5	360°	PG 63 - 66
+ AW3689	1695-2690/3400-3800 /5150-5925MHz	20	MET	14/ 11/6	65°	PG 67 - 70
+ AW3724	617-894/1695-2690/ 3400-3800/5150-5925MHz	18	MET	7/14 /11/6	65°	PG 71 - 75
+ AW3725	617-894/1695-2690/ 3400-3800/5150-5925MHz	24	eRET/ MET	7/14 /11/6	65°	PG 76 - 80

Canister

Panel

Small Cell

Concealment

Common Name- 2 Port B38, 40 & 41 Omni

2300-2700MHz	2	Fixed	11.0	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This solution was developed for fixed wireless omni directional applications

APPLICATION

Alpha Wireless pseudo omni antenna provides 360° coverage whilst in an ultra-compact radome design. 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 with options for various fixed tilt settings.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

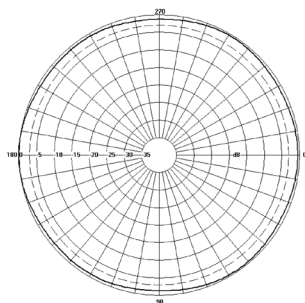
- Wide-band antenna for 3GPP bands 38, 40 & 41
- Optimized Pseudo omni with reduced azimuth ripple
- Slim monopole design to reduce wind loading
- Manufactured in Ireland

TECHNICAL SPECIFICATION

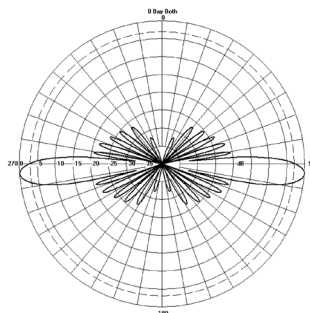
Electrical Specifications

Frequency Range	MHz	2300 - 2700MHz
Polarisation	Degree	+/- 45° Slant Linear
Gain	dBi	11
Azimuth Beamwidth	Degree	360°
Elevation Beamwidth	Degree	8°
Electrical Downtilt	Degree	T4°
Electrical Downtilt Deviation	Degree<	1°
Impedance	Ohms	50
VSWR	<	1.5
Return Loss	dB>	14
Isolation	dB>	25
Upper Sidelobe Suppression, Peak to 20°	dB>	15
Cross-Polar Discrimination	dB>	10
Maximum Effective Power Per Port	W	200

Radiation Pattern Files



Azimuth



Elevation

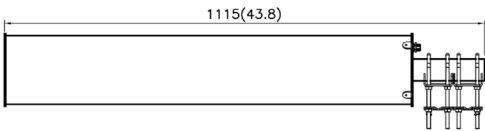
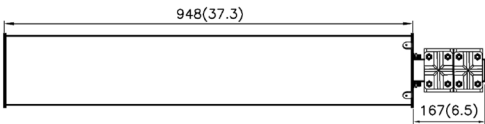
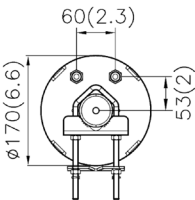
For radiation pattern files, please login at www.alphawireless.com

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	948 (37.3) x 170 (6.6)
Packing Size (LxWxD)	mm (in)	1150 (45.2) x 200 (7.8) x 200 (7.8)
Net Weight (antenna)	kg (lb)	5.5 (12.1)
Net Weight (mount)	kg (lb)	1.0 (2.2)
Shipping Weight	kg (lb)	6.5 (14.3)
Connector Type (Female)	-	N Type
Connector Quantity	-	2
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	140 (32)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	140 (32)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
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)

Mechanical Illustration

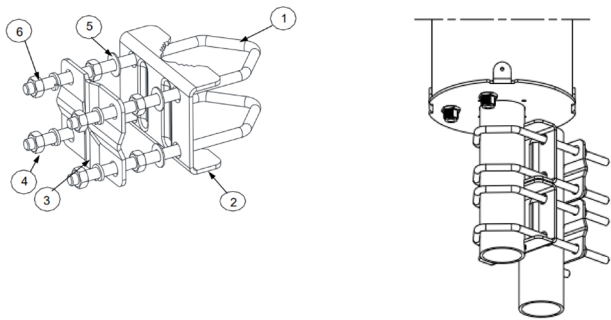
All measurements are in mm (in)



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-112 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
N/A	Galvanised Steel	30mm-50mm (1.2" to 2")

ORDERING INFO

AW3088-T4-N Four Degrees Fixed Tilt with N Type Connectors

Common Name- 2 Port B42 & 43 Omni

3300-3800MHz	2	Fixed	11.0	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This solution was developed for fixed wireless omni directional applications

APPLICATION

Alpha Wireless pseudo omni antenna provides 360° coverage whilst in an ultra-compact radome design. 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 with options for various fixed tilt settings.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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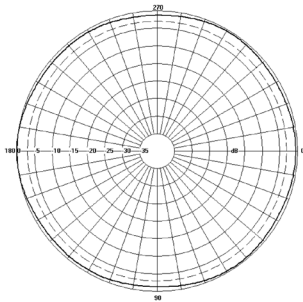
FEATURES

- Wide-band antenna for 3GPP bands 42 & 43
- Optimized Pseudo omni with reduced azimuth ripple
- Slim monopole design to reduce wind loading
- Manufactured in Ireland

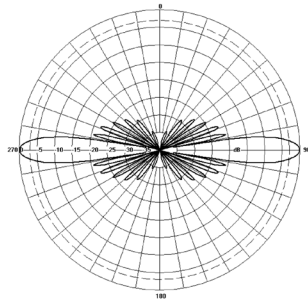
TECHNICAL SPECIFICATION

Electrical Specifications		
Frequency Range	MHz	3300 - 3800MHz
Polarisation	Degree	+/- 45° Slant Linear
Gain	dBi	11
Azimuth Beamwidth	Degree	360°
Elevation Beamwidth	Degree	8°
Electrical Downtilt	Degree	T0° or T4°
Electrical Downtilt Deviation	Degree<	1°
Impedance	Ohms	50
VSWR	<	1.5
Return Loss	dB>	14
Isolation	dB>	25
Upper Sidelobe Suppression, Peak to 20°	dB>	15
Cross-Polar Discrimination	dB>	10
Maximum Effective Power Per Port	W	50

Radiation Pattern Files



Azimuth



Elevation

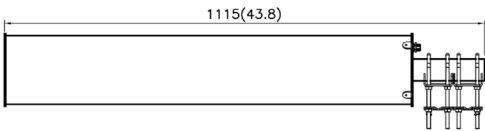
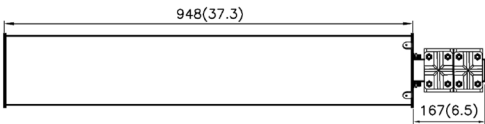
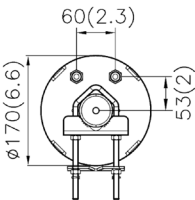
For radiation pattern files, please login at www.alphawireless.com

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	948 (37.3) x 170 (6.6)
Packing Size (LxWxD)	mm (in)	1150 (45.2) x 200 (7.8) x 200 (7.8)
Net Weight (antenna)	kg (lb)	5 (11)
Net Weight (mount)	kg (lb)	1 (2.2)
Shipping Weight	kg (lb)	6.1 (13.2)
Connector Type (Female)	-	N Type
Connector Quantity	-	2
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	140 (32)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	140 (32)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
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)

Mechanical Illustration

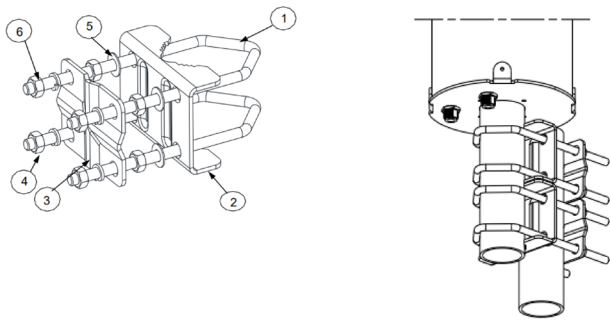
All measurements are in mm (in)



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-112 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
N/A	Galvanised Steel	30mm-50mm (1.2" to 2")

ORDERING INFO

- AW3089-T0-NZero Degrees Fixed Tilt with N Type Connectors
- AW3089-T4-NFour Degrees Fixed Tilt with N Type Connectors

Common Name- B41 Compact 2x2 MIMO Panel

2496-2690MHz	2	Fixed	12.5	65°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

Developed to address B41 densification program for both mini macro and macro applications.

APPLICATION

Alpha Wireless small cell provides sector coverage whilst in an ultra-compact radome design. This 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 with options for various fixed tilt settings.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

- Optimised for 3GPP band 38 & 41
- Compact design for Small Cell deployment - Low visual impact
- Mounting bracket with variable tilt (included)
- Manufactured in Ireland

Canister

Panel

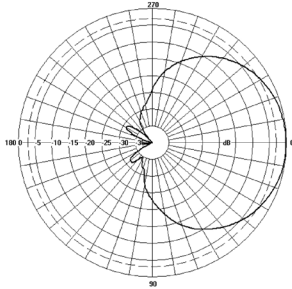
Small Cell

Concealment

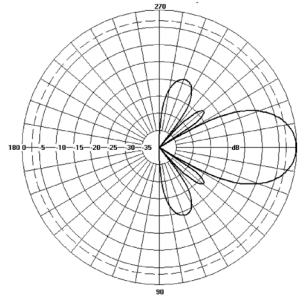
TECHNICAL SPECIFICATION

Electrical Specifications		
Frequency Range	MHz	2496 – 2690MHz
Polarisation	Degree	+/-45° Slant Linear
Gain	dBi	12.5
Azimuth Beamwidth	Degree	65°
Azimuth Beam Squint	Degree<	3°
Elevation Beamwidth	Degree	22°
Electrical Downtilt	Degree	T0°
Electrical Downtilt Deviation	Degree<	1°
Impedance	Ohms	50
VSWR	<	1.43
Return Loss	dB>	15
Isolation	dB>	28
Front to Back Ratio: Total Power +/-30°	dB>	28
Passive Intermodulation	dBc<	-150
Upper Sidelobe Suppression, Peak to 20°	dB>	18
Cross-Polar Discrimination	dB>	16
Maximum Effective Power Per Port	W	50

Radiation Pattern Files



Azimuth



Elevation

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

Canister

Panel

Small Cell

Concealment

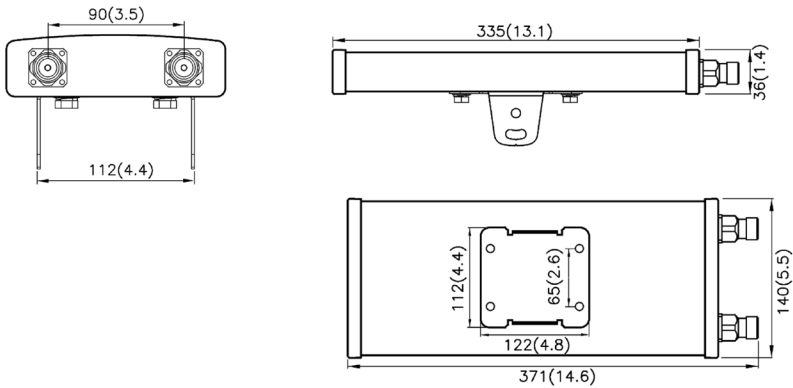
TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions (LxØ)	mm (in)	335 (13.1) X 140 (5.5) X 36 (1.4)
Packing Size (LxWxD)	mm (in)	420 (16.5) x 156 (6.1) x 94 (3.7)
Net Weight (antenna)	kg (lb)	1 (2.1)
Net Weight (mount)	kg (lb)	0.4 (0.9)
Shipping Weight	kg (lb)	1.4 (3.0)
Connector Type (Female)	-	Mini DIN
Connector Quantity	-	2
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	50 (12)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	20 (5)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
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)

Mechanical Illustration

All measurements are in mm (in)



Canister

Panel

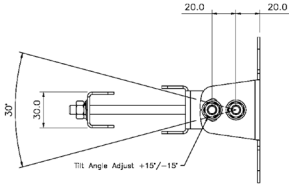
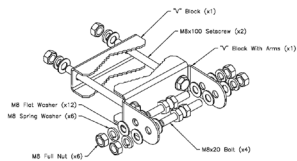
Small Cell

Concealment

TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-103 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
+15° to -15°	Stainless Steel	25mm-60mm (1" to 2.4")

ORDERING INFO

AW3348-T0-A Zero Degrees Fixed Tilt with Mini DIN Connectors

Common Name- 2 Port B42 & 43 - Small Cell - 65°

3300-3800MHz	2	Fixed	12.5	65°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

Developed to offer an ultra compact form factor solution for B42/B43 in advance of CBRS and 5G Deployment

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 2 port antenna provides 2X2 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 for 3GPP bands 42 & 43
- Compact design for Small Cell deployment - Low visual impact
- Dual Cross polarization antenna +/- 45°
- Manufactured in Ireland

Canister

Panel

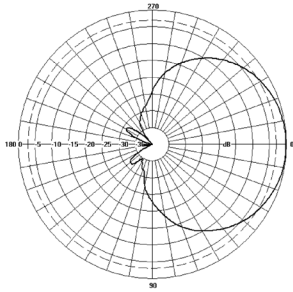
Small Cell

Concealment

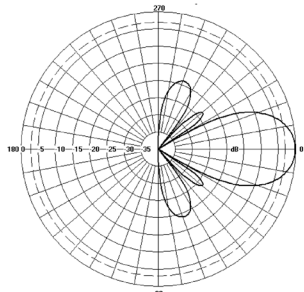
TECHNICAL SPECIFICATION

Electrical Specifications		
Frequency Range	MHz	3300 - 3800MHz
Polarisation	Degree	+/-45° Slant Linear
Gain	dBi	12.5
Azimuth Beamwidth	Degree	65°
Azimuth Beam Squint	Degree<	3°
Elevation Beamwidth	Degree	22°
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>	28
Upper Sidelobe Suppression, Peak to 20°	dB>	18
Cross-Polar Discrimination	dB>	16
Maximum Effective Power Per Port	W	50

Radiation Pattern Files



Azimuth



Elevation

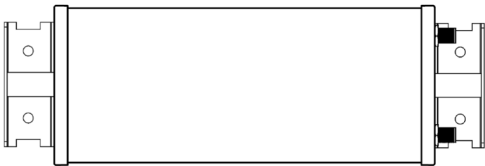
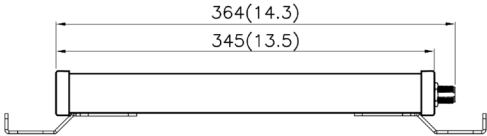
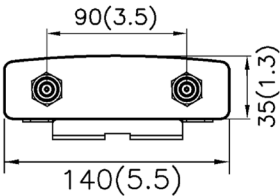
For radiation pattern files, please login at www.alphawireless.com

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	364 (14.3) x 140 (5.5) x 35 (1.3)
Packing Size (LxWxD)	mm (in)	400 (15.7) x 160 (6.2) x 50 (1.9)
Net Weight (antenna)	kg (lb)	1 (2.2)
Net Weight (mount)	kg (lb)	0.4 (0.8)
Shipping Weight	kg (lb)	1.4 (3.0)
Connector Type (Female)	-	N Type
Connector Quantity	-	2
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	60 (14)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	20 (5)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
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)

Mechanical Illustration

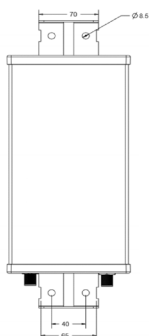
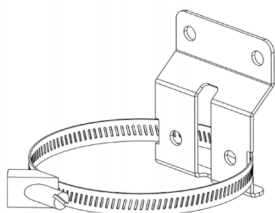
All measurements are in mm (in)



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-139 51mm-127mm Pipe Strap (Included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
N/A	Stainless Steel	N/A

ORDERING INFO

AW3372-T0-N Zero Degrees Fixed Tilt with N Type Connectors

Common Name- 2 Port B42 & 43 - Small Cell - 90°

3300-3800MHz	2	Fixed	11.0	90°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

Developed to offer an ultra compact form factor solution for B42 and B43 in advance of CBRS and 5G Deployment

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 2 port antenna provides 2X2 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 for 3GPP bands 42 & 43
- Compact design for Small Cell deployment - Low visual impact
- Mounting bracket with variable tilt
- Manufactured in Ireland

Canister

Panel

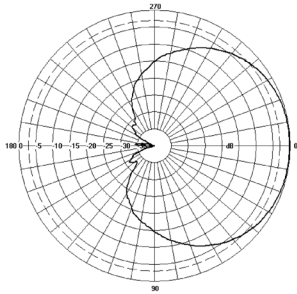
Small Cell

Concealment

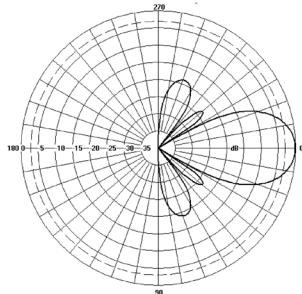
TECHNICAL SPECIFICATION

Electrical Specifications		
Frequency Range	MHz	3300 - 3800MHz
Polarisation	Degree	+/-45° Slant Linear
Gain	dBi	11.0
Azimuth Beamwidth	Degree	90°
Azimuth Beam Squint	Degree<	3°
Elevation Beamwidth	Degree	22°
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
Upper Sidelobe Suppression, Peak to 20°	dB>	18
Cross-Polar Discrimination	dB>	16
Maximum Effective Power Per Port	W	50

Radiation Pattern Files



Azimuth



Elevation

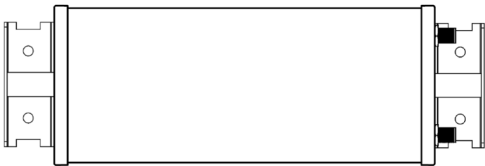
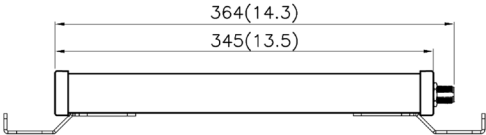
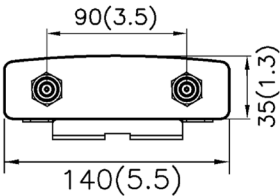
For radiation pattern files, please login at www.alphawireless.com

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	364 (14.3) x 145 (5.7) x 41 (1.6)
Packing Size (LxWxD)	mm (in)	400 (15.7) x 160 (6.2) x 50 (1.9)
Net Weight (antenna)	kg (lb)	1 (2.2)
Net Weight (mount)	kg (lb)	0.4 (0.8)
Shipping Weight	kg (lb)	1.4 (3.0)
Connector Type (Female)	-	N Type
Connector Quantity	-	2
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	60 (14)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	20 (5)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
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)

Mechanical Illustration

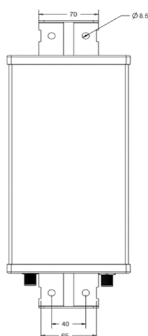
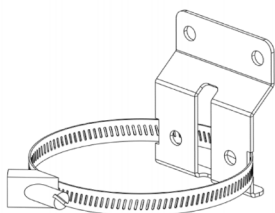
All measurements are in mm (in)



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-139 51mm-127mm Pipe Strap (Included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
N/A	Stainless Steel	N/A

ORDERING INFO

AW3373-T0-N Zero Degrees Fixed Tilt with N Type Connectors

Common Name- 2 Port B42 & 43 - Small Cell - Omni

3400-3800MHz	2	Fixed	7.0	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

Developed to offer an ultra compact form factor solution for B42/B43 to in advance of CBRS and 5G deployment

APPLICATION

Alpha Wireless pseudo omni antenna provides 360° 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 2 port antenna provides 2X2 MIMO for improved data throughput with options for various fixed tilt settings.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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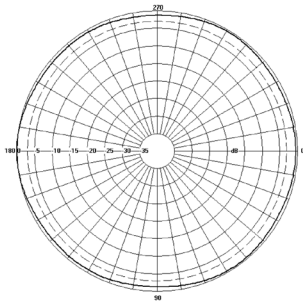
FEATURES

- Wide-band antenna for 3GPP bands 42 & 43
- Optimized Pseudo omni with reduced azimuth ripple
- Slim monopole design to reduce wind loading
- Manufactured in Ireland

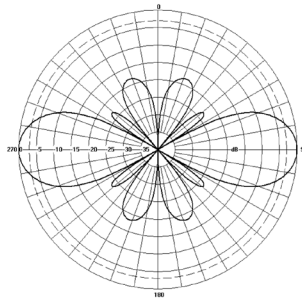
TECHNICAL SPECIFICATION

Electrical Specifications		
Frequency Range	MHz	3400 - 3800MHz
Polarisation	Degree	+/-45° Slant Linear
Gain	dBi	7.0
Azimuth Beamwidth	Degree	360°
Elevation Beamwidth	Degree	22°
Electrical Downtilt	Degree	T0°
Electrical Downtilt Deviation	Degree<	1°
Impedance	Ohms	50
VSWR	<	1.5
Return Loss	dB>	14
Isolation	dB>	25
Upper Sidelobe Suppression, Peak to 20°	dB>	15
Cross-Polar Discrimination	dB>	10
Maximum Effective Power Per Port	W	50

Radiation Pattern Files



Azimuth



Elevation

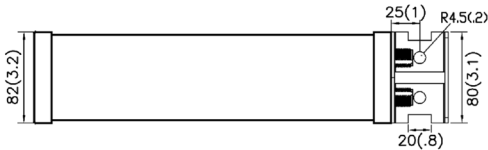
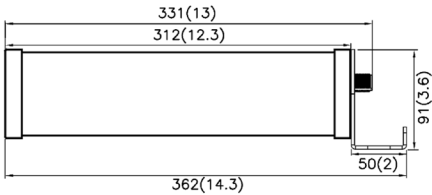
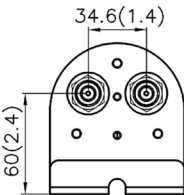
For radiation pattern files, please login at www.alphawireless.com

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	312 (12.3) x 80 (3.1)
Packing Size (LxWxD)	mm (in)	400 (15.7) x 150 (5.9) x 150 (5.9)
Net Weight (antenna)	kg (lb)	1 (2.2)
Net Weight (mount)	kg (lb)	0.5 (1.1)
Shipping Weight	kg (lb)	1.5 (3.3)
Connector Type (Female)	-	N Type
Connector Quantity	-	2
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	20 (5)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	20 (5)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
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)

Mechanical Illustration

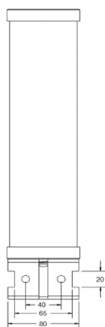
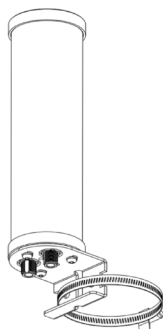
All measurements are in mm (in)



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-140 51mm-127mm Pipe Strap (Included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
N/A	Stainless Steel	N/A

ORDERING INFO

AW3374-T0-N Zero Degrees Fixed Tilt with N Type Connectors

Common Name- 2 Port UWB HB - Small Cell - 65°

1710 - 2690MHz	2	Fixed	12.5	65°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

Developed to address densification program for both macro and mini macro applications.

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 2 port antenna provides 2X2 MIMO for improved data throughput with options for various fixed tilt settings.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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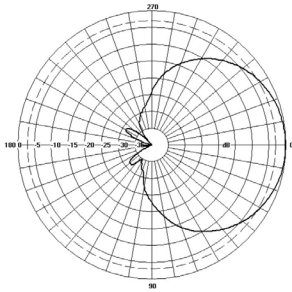
FEATURES

- Ultra-wide high band antenna 1710-2690MHz
- Compact design for Small Cell deployment - Low visual impact
- Mounting bracket with variable tilt (included)
- Low PIM performance to reduce interference.

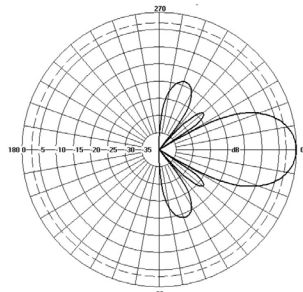
TECHNICAL SPECIFICATION

Electrical Specifications				
Frequency Range	MHz	1710 -1880	1920 - 2170	2300 - 2690
Polarisation	Degree	+/- 45° Slant Linear		
Gain	dBi	12.2	12.5	12.7
Azimuth Beamwidth	Degree	68°	65°	60°
Azimuth Beam Squint	Degree<	2°	2°	2.5°
Elevation Beamwidth	Degree	23°	20°	18°
Electrical Downtilt	Degree	T0°, T8° and T14°		
Electrical Downtilt Deviation	Degree<	1°		
Impedance	Ohms	50		
VSWR	<	1.43		
Return Loss	dB>	15		
Isolation	dB>	28		
Front to Back Ratio: Total Power +/-30°	dB>	27		
Passive Intermodulation	dBc<	-150		
Upper Sidelobe Suppression, Peak to 20°	dB>	17		
Cross-Polar Discrimination	dB>	16		
Maximum Effective Power Per Port	W	200		

Radiation Pattern Files



Azimuth



Elevation

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

Canister

Panel

Small Cell

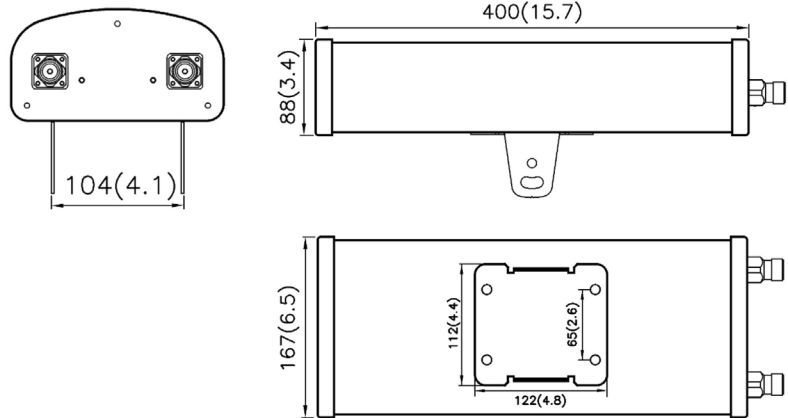
Concealment

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	400 (15.7) x 167 (6.5) x 88 (3.4)
Packing Size (LxWxD)	mm (in)	460 (18) x 190 (7.5) x 170 (6.7)
Net Weight (antenna)	kg (lb)	2 (4.4)
Net Weight (mount)	kg (lb)	0.5 (1.1)
Shipping Weight	kg (lb)	2.5 (5.5)
Connector Type (Female)	-	7/16 DIN or 4.3-10
Connector Quantity	-	2
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	70 (16)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	40 (9)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
Radome Colour	RAL	7035
Product Compliance Environmental	-	RoHS
Lightening Protection	-	DC Grounded
Cold Temperature Survival	°C (°F)	-40 (-40)
Hot Temperature Survival	°C (°F)	70 (158)

Mechanical Illustration

All measurements are in mm (in)



Canister

Panel

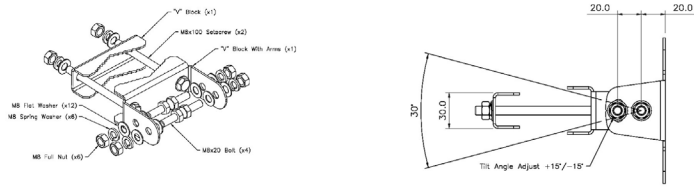
Small Cell

Concealment

TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-103 - Single Bracket Mounting Kit (Mount Kit included with antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
+15° to -15°	Stainless Steel	25mm-60mm (1" to 2.4")

ORDERING INFO

AW3387-T0-F	Zero Degrees Fixed Tilt with 4.3-10 Connectors
AW3387-T8-F	Eight Degrees Fixed Tilt with 4.3-10 Connectors
AW3387-T14-F	Fourteen Degrees Fixed Tilt with 4.3-10 Connectors
AW3387-T0-D	Zero Degrees Fixed Tilt with 7/16 DIN Connectors
AW3387-T8-D	Eight Degrees Fixed Tilt with 7/16 DIN Connectors
AW3387-T14-D	Fourteen Degrees Fixed Tilt with 7/16 DIN Connectors

Common Name- 2 Port UWB HB - Small Cell - Omni

1710-2690MHz	2	Fixed	6.7	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

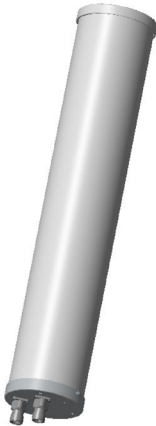
Developed to address densification program for both macro and mini macro applications.

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 2 port antenna provides 2X2 MIMO for improved data throughput with options for various fixed tilt settings.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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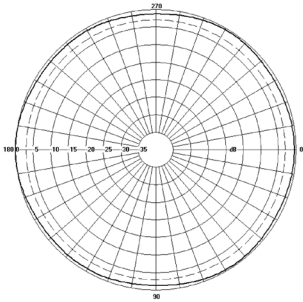
FEATURES

- Ultra-wide high band antenna 1710-2690MHz
- Optimized Pseudo omni with reduced azimuth ripple
- Slim monopole design to reduce wind loading
- Low PIM performance to reduce interference

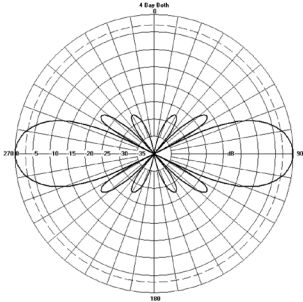
TECHNICAL SPECIFICATION

Electrical Specifications				
Frequency Range	MHz	1710 - 1880	1920 - 2170	2300 - 2690
Polarisation	Degree	+/- 45° Slant Linear		
Gain	dBi	6.5	6.7	6.9
Azimuth Beamwidth	Degree	360°	360°	360°
Elevation Beamwidth	Degree	19°	18°	13°
Electrical Downtilt	Degree	T0° - T8°		
Electrical Downtilt Deviation	Degree<	1°		
Impedance	Ohms	50		
VSWR	<	1.43		
Return Loss	dB>	15		
Isolation	dB>	28		
Passive Intermodulation	dBc<	-150		
Upper Sidelobe Suppression, Peak to 20°	dB>	17		
Cross-Polar Discrimination	dB>	10		
Maximum Effective Power Per Port	W	200		

Radiation Pattern Files



Azimuth



Elevation

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

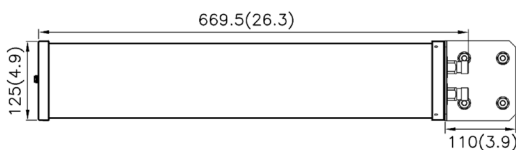
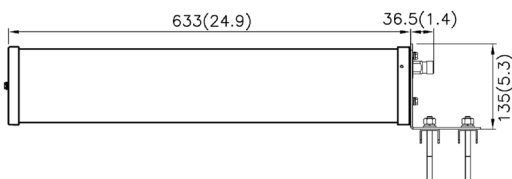
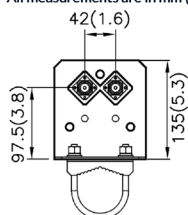
TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions (LxØ)	mm (in)	669.5 (26.3) x 125 (4.9)
Packing Size (LxWxD)	mm (in)	800 (31.5) x 200 (7.9) x 200 (7.9)
Net Weight (antenna)	kg (lb)	2 (4.4)
Net Weight (mount)	kg (lb)	0.5 (1.1)
Shipping Weight	kg (lb)	2.5 (5.5)
Connector Type (Female)	-	4.3-10
Connector Quantity	-	2
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	70 (16)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	70 (16)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
Radome Colour	RAL	9002
Product Compliance Environmental	-	RoHS
Lightening Protection	-	DC Grounded
Cold Temperature Survival	°C (°F)	-40 (-40)
Hot Temperature Survival	°C (°F)	70 (158)

Mechanical Illustration

All measurements are in mm (in)



Canister

Panel

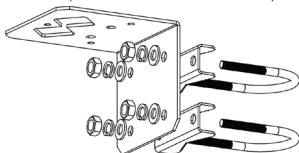
Small Cell

Concealment

TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-118 (mount kit included with antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
N/A	Stainless Steel	25mm-60mm (1" to 2.4")

ORDERING INFO

AW3388-T0-F	Zero Degrees Fixed Tilt with 4.3-10 Connectors
AW3388-T8-F	Eight Degrees Fixed Tilt with 4.3-10 Connectors

Common Name- 4 port - Small Cell - 65° - Diplexed

1710 - 2690MHz	4	Fixed	12.2/12.7	65°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

Developed to address densification program for both macro and mini macro applications.

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 provides 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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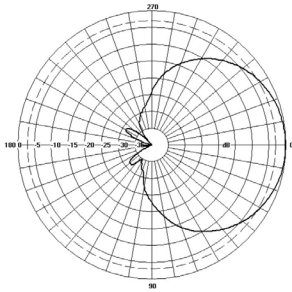
FEATURES

- Ultra-wide high band antenna 1710-2690MHz
- Compact design for Small Cell deployment - Low visual impact
- Mounting bracket with variable tilt
- Low PIM performance to reduce interference

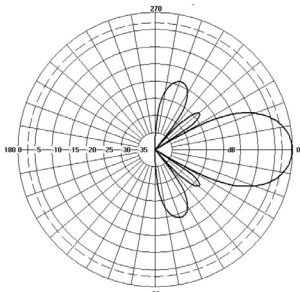
TECHNICAL SPECIFICATION

Electrical Specifications			
Frequency Range	MHz	2 x 1710 - 2170	2 x 2496 - 2690
Polarisation	Degree	+/-45° Slant Linear	
Gain	dBi	12.2	12.7
Azimuth Beamwidth	Degree	65°	
Azimuth Beam Squint	Degree<	2°	
Elevation Beamwidth	Degree	22°	
Electrical Downtilt	Degree	T0°, T8° or T14°	
Electrical Downtilt Deviation	Degree<	1°	
Impedance	Ohms	50	
VSWR	<	1.43	
Return Loss	dB>	15	
Isolation	dB>	28	
Front to Back Ratio: Total Power +/-30°	dB>	27	
Passive Intermodulation	dBc<	-150	
Upper Sidelobe Suppression, Peak to 20°	dB>	17	
Cross-Polar Discrimination	dB>	16	
Maximum Effective Power Per Port	W	200	

Radiation Pattern Files



Azimuth



Elevation

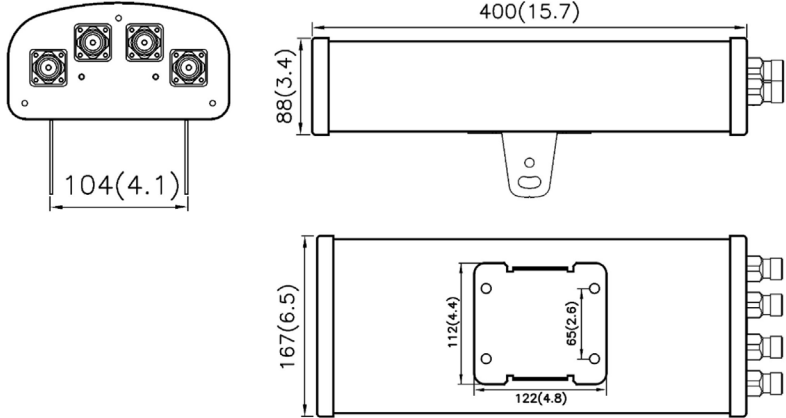
For radiation pattern files, please login at www.alphawireless.com

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	400 (15.7) x 167 (6.5) x 88 (3.4)
Packing Size (LxWxD)	mm (in)	460 (18) x 190 (7.5) x 170 (6.7)
Net Weight (antenna)	kg (lb)	2 (4.4)
Net Weight (mount)	kg (lb)	0.5 (1.1)
Shipping Weight	kg (lb)	2.5 (5.5)
Connector Type (Female)	-	7/16 DIN or 4.3-10
Connector Quantity	-	4
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	70 (16)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	40 (9)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
Radome Colour	RAL	7035
Product Compliance Environmental	-	RoHS
Lightening Protection	-	DC Grounded
Cold Temperature Survival	°C (°F)	-40 (-40)
Hot Temperature Survival	°C (°F)	70 (158)

Mechanical Illustration

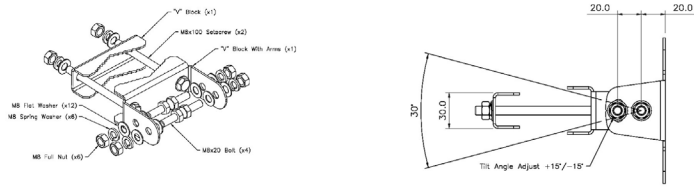
All measurements are in mm (in)



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-103 - Single Bracket Mounting Kit (Mount Kit included with antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
+15° to -15°	Stainless Steel	152mm-254mm (6" to 10")

ORDERING INFO

AW3397-T0-F	Zero Degrees Fixed Tilt with 4.3/10 Connectors
AW3397-T8-F	Eight Degrees Fixed Tilt with 4.3/10 Connectors
AW3397-T14-F	Fourteen Degrees Fixed Tilt with 4.3/10 Connectors
AW3397-T0-D	Zero Degrees Fixed Tilt with 7/16 DIN Connectors
AW3397-T8-D	Eight Degrees Fixed Tilt with 7/16 DIN Connectors
AW3397-T14-D	Fourteen Degrees Fixed Tilt with 7/16 DIN Connectors

Common Name- 4 Port - Small Cell - Omni - Diplexed

1710-2690MHz	4	Fixed	6.6/6.9	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

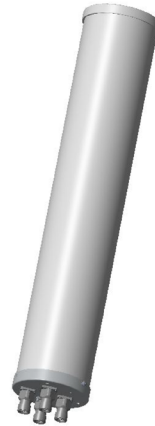
Developed to address densification program for both macro and mini macro applications.

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 provides 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

- Ultra-wide high band antenna 1710-2690MHz
- Compact design for Small Cell deployment - Low visual impact
- Optimized Pseudo omni with reduced azimuth ripple
- Low PIM Performance to reduce interference.

Canister

Panel

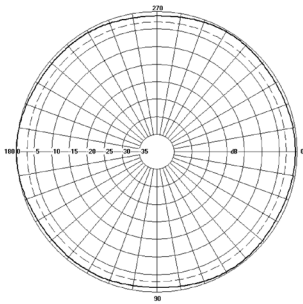
Small Cell

Concealment

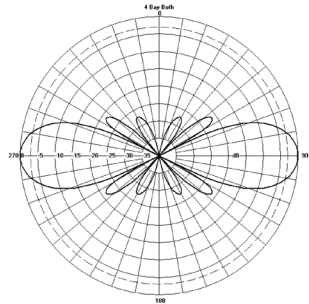
TECHNICAL SPECIFICATION

Electrical Specifications			
Frequency Range	MHz	2 x 1710 - 2170	2 x 2496 - 2690
Polarisation	Degree	+/- 45° Slant Linear	
Gain	dBi	6.6	6.9
Azimuth Beamwidth	Degree	360°	
Elevation Beamwidth	Degree	18°	13°
Electrical Downtilt	Degree	T0° or T8°	
Electrical Downtilt Deviation	Degree<	1°	
Impedance	Ohms	50	
VSWR	<	1.43	
Return Loss	dB>	15	
Isolation	dB>	28	
Passive Intermodulation	dBc<	-150	
Upper Sidelobe Suppression, Peak to 20°	dB>	17	
Cross-Polar Discrimination	dB>	10	
Maximum Effective Power Per Port	W	100	

Radiation Pattern Files



Azimuth



Elevation

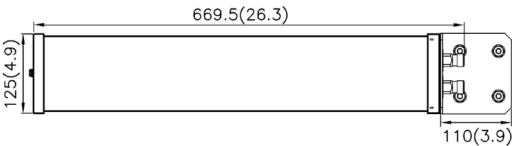
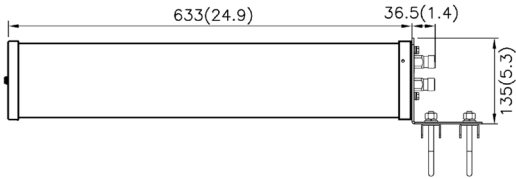
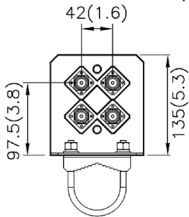
For radiation pattern files, please login at www.alphawireless.com

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	669.5 (26.3) x 125 (4.9)
Packing Size (LxWxD)	mm (in)	800 (31.5) x 200 (7.9) x 200 (7.9)
Net Weight (antenna)	kg (lb)	2 (4.4)
Net Weight (mount)	kg (lb)	0.5 (1.1)
Shipping Weight	kg (lb)	2.5 (5.5)
Connector Type (Female)	-	4.3-10
Connector Quantity	-	4
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	70 (16)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	70 (16)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
Radome Colour	RAL	9002
Product Compliance Environmental	-	RoHS
Lightening Protection	-	DC Grounded
Cold Temperature Survival	°C (°F)	-40 (-40)
Hot Temperature Survival	°C (°F)	70 (158)

Mechanical Illustration

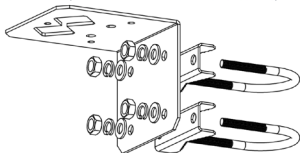
All measurements are in mm (in)



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-118 (Mount Kit included with antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
N/A	Stainless Steel	25mm-60mm (1" to 2.4")

ORDERING INFO

AW3398-T0-F Zero Degrees Fixed Tilt with 4.3/10 Connectors

AW3398-T8-F Eight Degrees Fixed Tilt with 4.3/10 Connectors

Common Name- B41 2x2 MIMO Small Cell Omni with MET

2496-2690MHz	2	MET	8.5	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

Developed to address Nokia and Airspan B41 2 Port Mini Macro small cell densification program.

APPLICATION

Alpha Wireless pseudo omni antenna provides 360° 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 2 port antenna provides 2X2 MIMO for improved data throughput with electrical variable tilt for maximum optimization.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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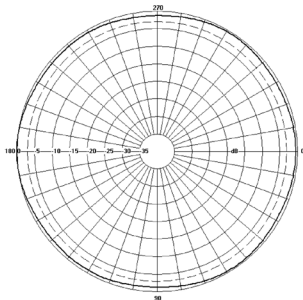
FEATURES

- Optimised for 3GPP band 38 & 41
- Optimized Pseudo omni with reduced azimuth ripple
- Independent tilt control across 3-sectors
- Integrated GPS
- Manufactured in Ireland

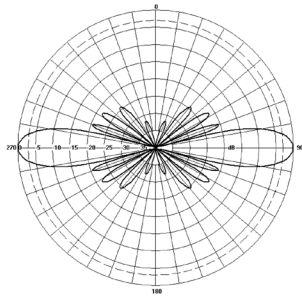
TECHNICAL SPECIFICATION

Electrical Specifications		
Frequency Range	MHz	2496 - 2690MHz
Polarisation	Degree	+/-45° Slant Linear
Gain	dBi	8.5
Azimuth Beamwidth	Degree	360°
Elevation Beamwidth	Degree	12°
Electrical Downtilt	Degree	T0° - T14°
Electrical Downtilt Deviation	Degree<	1
Impedance	Ohms	50
VSWR	<	1.43
Return Loss	dB>	15
Isolation	dB>	28
Passive Intermodulation	dBc<	-150
Upper Sidelobe Suppression, Peak to 20°	dB>	18
Cross-Polar Discrimination	dB>	12
Maximum Effective Power Per Port	W	50

Radiation Pattern Files



Azimuth



Elevation

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

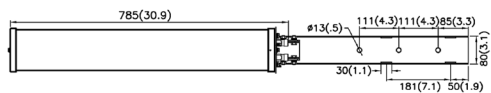
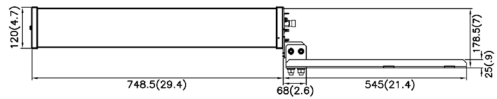
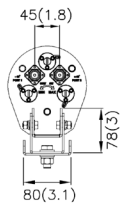
TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions (LxØ)	mm (in)	785 (30.9) x 120 (4.7)
Packing Size (LxWxD)	mm (in)	1300 (51.1) x 178 (7.0) x 120 (4.7)
Net Weight (antenna)	kg (lb)	3.2 (7)
Net Weight (mount)	kg (lb)	2 (4.4)
Shipping Weight	kg (lb)	5.2 (11.4)
Connector Type (Female)	-	Mini DIN
Connector Quantity	-	2
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	90 (21)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	90 (21)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
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)

Mechanical Illustration

All measurements are in mm (in)



Canister

Panel

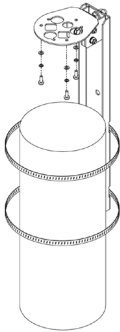
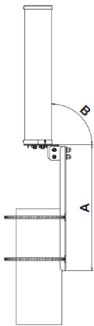
Small Cell

Concealment

TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-125 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
-10° to +10°	Stainless Steel	N/A

ORDERING INFO

AW3477-S1-G Manual Electrical Tilt (MET) with Mini DIN Connectors and Integrated GPS

Canister

Panel

Small Cell

Concealment

Common Name- 4x4 MIMO Small Cell Omni

3400-3800MHz	4	Fixed	6.5	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This was developed to offer a 3.5GHz 4 port Omni solution.

APPLICATION

Alpha Wireless pseudo omni antenna provides 360° 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 provides 4X4 MIMO for improved data throughput or multi-operator applications.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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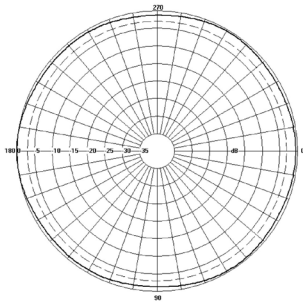
FEATURES

- Wide-band antenna for 3GPP bands 42 & 43
- Optimized Pseudo omni with reduced azimuth ripple
- 4x4 MIMO for maximum throughput
- Slim monopole design to reduce wind loading

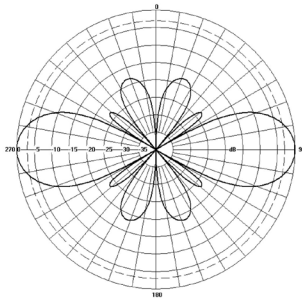
TECHNICAL SPECIFICATION

Electrical Specifications		
Frequency Range	MHz	3400 - 3800MHz
Polarisation	Degree	+/- 45° Slant Linear
Gain	dBi	6.5
Azimuth Beamwidth	Degree	360°
Elevation Beamwidth	Degree	22°
Electrical Downtilt	Degree	T0°
Electrical Downtilt Deviation	Degree<	1°
Impedance	Ohms	50
VSWR	<	1.5
Return Loss	dB>	14
Isolation	dB>	25
Upper Sidelobe Suppression, Peak to 20°	dB>	15
Cross-Polar Discrimination	dB>	12
Maximum Effective Power Per Port	W	50

Radiation Pattern Files



Azimuth



Elevation

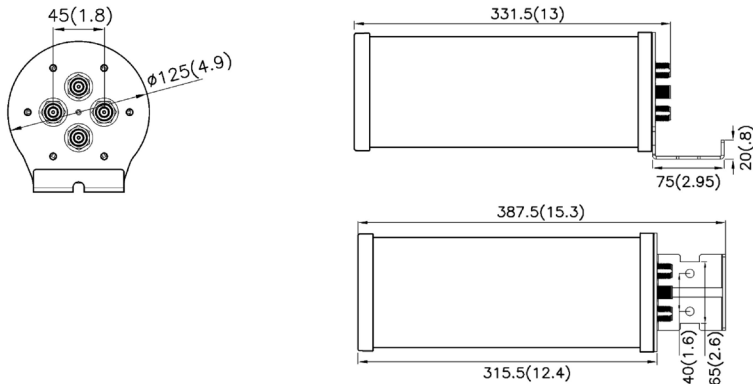
For radiation pattern files, please login at www.alphawireless.com

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	331.5 (13) x 125 (4.9)
Packing Size (LxWxD)	mm (in)	400 (15.7) x 200 (7.8) x 200 (7.8)
Net Weight (antenna)	kg (lb)	4.5 (9.9)
Net Weight (mount)	kg (lb)	0.5 (1.1)
Shipping Weight	kg (lb)	5 (11)
Connector Type (Female)	-	N Type
Connector Quantity	-	4
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	40 (9)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	40 (9)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
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)

Mechanical Illustration

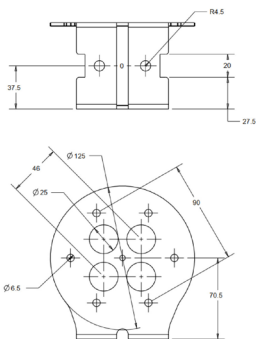
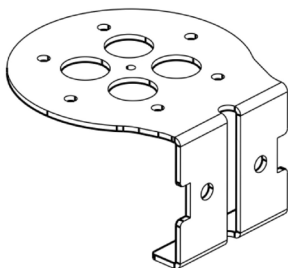
All measurements are in mm (in)



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-152 (Mounting Kit Included with antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	N/A

ORDERING INFO

AW3499-T0-N Zero Degrees Fixed Tilt with N Type Connectors

Small Cell

Common Name- B41 4x4 MIMO Small Cell Omni - MET

2496-2690MHz	4	MET	8.5	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

Developed to address Nokia and Airspan B41 4 Port Mini Macro small cell densification program.

APPLICATION

Traditional mobile networks were designed for voice call continuity and principally relied on macro sites. The seemingly insatiable demand for data requires cell splitting at a much finer level. The AW3613 provides a powerful tool for network RF engineers. It's pseudo-omni pattern eliminates the need for multiple panels to address a coverage gap or capacity augmentation (network densification). 4x4 MIMO ensures the best RF performance and the MET adjustable down tilt fine tunes the coverage for the given location. The AW3613 set a new standard for small cell power and flexibility.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

- Optimised for 3GPP band 38 & 41
- 4x4 MIMO for maximum throughput
- Independent tilt control across 6-sectors
- Integrated GPS Antenna

Canister

Panel

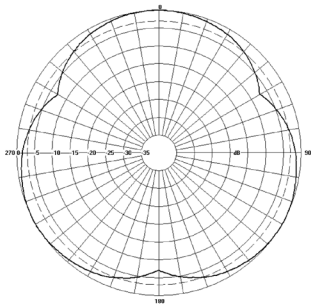
Small Cell

Concealment

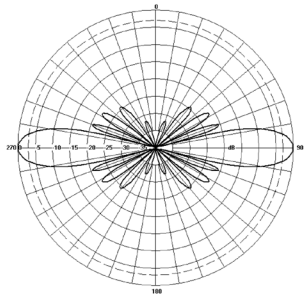
TECHNICAL SPECIFICATION

Electrical Specifications		
Frequency Range	MHz	2496 - 2690MHz
Polarisation	Degree	+/-45° Slant Linear
Gain	dBi	8.5
Azimuth Beamwidth	Degree	360°
Elevation Beamwidth	Degree	12°
Electrical Downtilt	Degree	T0° - T14°
Electrical Downtilt Deviation	Degree<	1°
Impedance	Ohms	50
VSWR	<	1.43
Return Loss	dB>	15
Isolation	dB>	28
Passive Intermodulation	dBc<	-150
Upper Sidelobe Suppression, Peak to 20°	dB>	18
Cross-Polar Discrimination	dB>	12
Maximum Effective Power Per Port	W	50

Radiation Pattern Files



Azimuth



Elevation

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

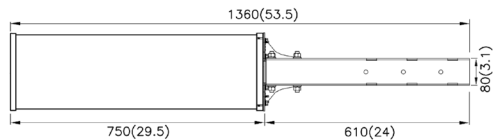
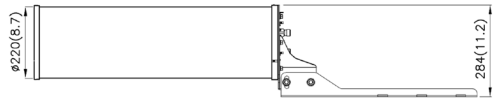
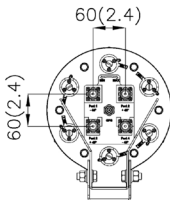
TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions (LxØ)	mm (in)	750 (29.5) x 220 (8.7)
Packing Size (LxWxD)	mm (in)	830 (32.7) x 295 (11.6) x 445 (17.5)
Net Weight (antenna)	kg (lb)	7.5 (16.5)
Net Weight (mount)	kg (lb)	7.5 (16.5)
Shipping Weight	kg (lb)	15 (33.1)
Connector Type (Female)	-	4.3-10
Connector Quantity	-	4
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	130 (30)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	130 (30)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
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)

Mechanical Illustration

All measurements are in mm (in)



Canister

Panel

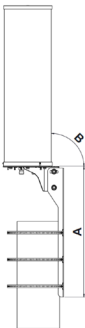
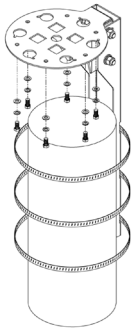
Small Cell

Concealment

TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-137 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
-10° to +10°	Stainless Steel	N/A

ORDERING INFO

AW3613-S1-G Manual Electrical Tilt (MET) with Four 4.3/10 Connectors

Common Name- 2x2 MIMO Small Cell Omni with MET

3300-3800MHz	2	MET	8.5	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This product was developed to offer a Tri-Sector psudo omni solution with independent tilt control on each of the three sectors across Bands 42/43 in a small form factor canister.

APPLICATION

Alpha Wireless pseudo omni antenna provides 360° 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 2 port antenna provides 2X2 MIMO for improved data throughput with electrical variable tilt for maximum optimization.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

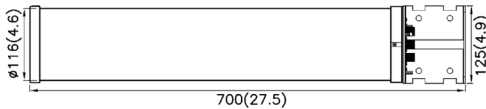
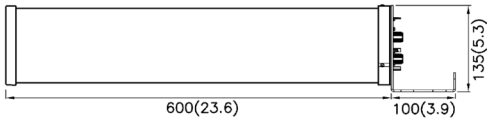
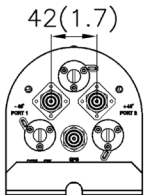
- Wide-band antenna for 3GPP bands 42 & 43
- Optimized Pseudo omni with reduced azimuth ripple
- Slim monopole design to reduce wind loading
- Independent RET control for each array (x3)

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	700(27.5) x 125 (4.9)
Packing Size (LxWxD)	mm (in)	770 (30.3) x 190 (7.4) x 250 (9.8)
Net Weight (antenna)	kg (lb)	3 (6.6)
Net Weight (mount)	kg (lb)	2 (4.4)
Shipping Weight	kg (lb)	6 (13.2)
Connector Type (Female)	-	N Type
Connector Quantity	-	2
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	80 (18)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	80 (18)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
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)

Mechanical Illustration

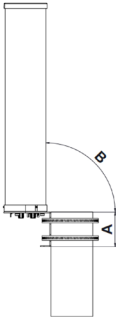
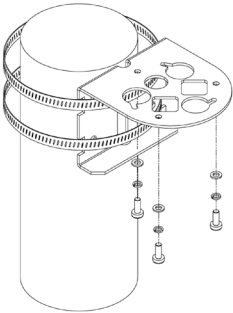
All measurements are in mm (in)



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-127 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	N/A

ORDERING INFO

AW3625-M-N-G Manual Electrical Tilt (MET) with N type Connectors

Common Name 8 Port Multi-band Small Cell

1695-2690/3400-3800/5150-5925MHz	8	eRET	14/10/6	65°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

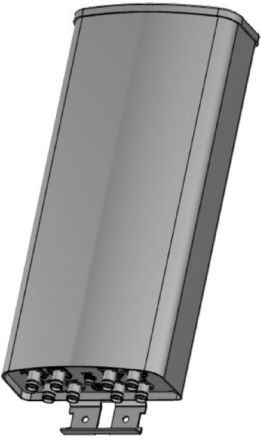
This product was designed to offer Mid-band as well as 3.5MHz and 5.5MHz functionality in a 2 foot Mini Macro housing for multi-operator applications.

APPLICATION

Alpha Wireless multi-band small cell provides sector coverage whilst in an ultra-compact radome design. This very special antenna provides 2G to 5G ports with LAA for ultimate data throughput. The antenna is designed to be installed in an 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. Remote electrical tilt in the high band allows instant optimization to improve coverage and throughput.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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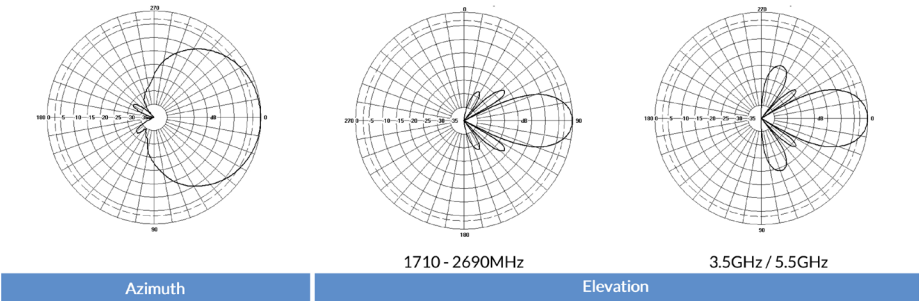
FEATURES

- Compact design for Small Cell Deployment - Low visual impact.
- Enhanced tilt range of 0 to 10 degrees
- AISG 2.0 compatible

TECHNICAL SPECIFICATION

Electrical Specifications							
Frequency Range	MHz	1695-1995	1920-2170	2170-2500	2500-2690	3400-3800	5150-5925
Polarisation	Degree	+/- 45° Slant Linear					
Gain							
Min Tilt	dBi	13.4 (T2)	13.8 (T2)	14.0 (T2)	14.2 (T2)	10 (T0)	6 (T0)
Mid Tilt	dBi	13.2 (T6)	13.6 (T6)	13.8 (T6)	14.0 (T6)	10 (T0)	6 (T0)
Max Tilt	dBi	12.9 (T10)	13.3 (T10)	13.5 (T10)	13.7 (T10)	10 (T0)	6 (T0)
Overall Tilts	dBi	13.2	13.6	13.8	14.0	10 (T0)	6 (T0)
Azimuth Beamwidth	Degree	71°	67°	63°	58°	63°	70°
Azimuth Beam Squint	Degree<	3°					
Elevation Beamwidth	Degree	19°	17°	15°	13°	30°	30°
Electrical Downtilt	Degree	T2°-T10°	T2°-T10°	T2°-T10°	T2°-T10°	T0°	T0°
Electrical Downtilt Deviation	Degree<	1.5°	1.5°	1.5°	1.5°	3°	3°
Impedance	Ohms	50					
VSWR	<	1.5					
Return Loss	dB>	14					
Isolation	dB>	25	25	25	25	22	22
Front to Back Ratio: Total Power +/-30°	dB>	27	27	27	27	25	25
Passive Intermodulation	dBc<	-153					
Upper Sidelobe Suppression, Peak to 20°	dB>	16	16	16	16	18	18
Cross-Polar Discrimination	dB>	16	16	16	16	16	16
Maximum Effective Power Per Port	W	250	250	250	250	50	1

Radiation Pattern Files



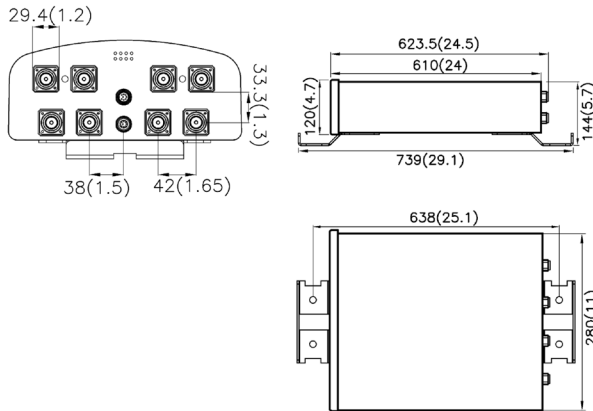
For radiation pattern files, please login at www.alphawireless.com

TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions (LxØ)	mm (in)	610 (24) x 280 (11) x 120 (4.7)
Packing Size (LxWxD)	mm (in)	800 (31.5) x 330 (13) x 190 (7.5)
Net Weight (antenna)	kg (lb)	6 (13.2)
Net Weight (mount)	kg (lb)	1.5 (3.3)
Shipping Weight	kg (lb)	8 (17.6)
Connector Type (Female)	-	4.3-10
Connector Position	-	Bottom
Connector Quantity	-	8 (4P Mid band, 2P High band, 2P High band)
Windload Frontal (at Rated Wind Speed: 150km/h)	N	180 (41)
Windload Lateral (at Rated Wind Speed: 150km/h)	N	80 (18)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
Radome Colour	RAL	7035
Product Compliance Environmental	-	RoHS
Lightening Protection	-	DC Grounded
Cold Temperature Survival	Celsius (Fahrenheit)	-40 (-40)
Hot Temperature Survival	Celsius (Fahrenheit)	70 (158)

Mechanical Illustration



Canister

Panel

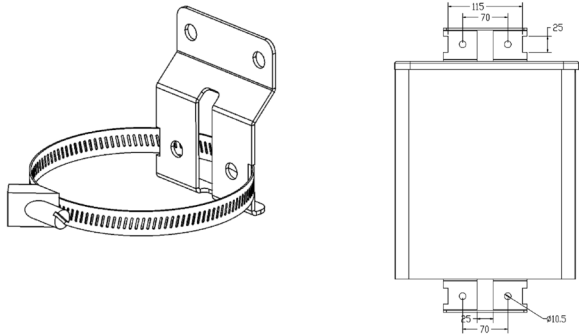
Small Cell

Concealment

TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-119 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0	Stainless Steel	N/A

ACCESSORIES

PADC-1000 (for eRET only)

SADC-1000 (for eRET only)

ORDERING INFO

AW3639-E-F Enclosed Remote Electrical Tilt (eRET) with 4.3/10 Conectors

Common Name- 4x4 MIMO Small Cell Omni with MET

3400 - 3800MHz	4	MET	8.5	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This product was developed to offer a Tri-Sector psudo omni solution with independent tilt control on each of the six sectors across Bands 42/43 in a small form factor canister.

APPLICATION

Alpha Wireless pseudo omni antenna provides 360° 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 provides 4X4 MIMO for improved data throughput with electrical variable tilt for maximum optimization.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

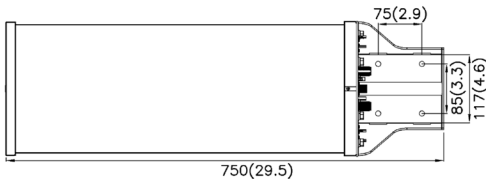
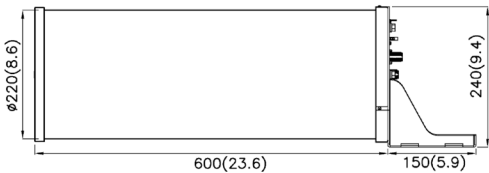
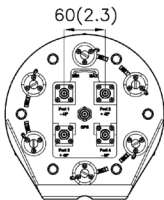
- Wide-band antenna for 3GPP bands 42 & 43
- Optimized Pseudo omni with reduced azimuth ripple
- Slim monopole design to reduce wind loading
- Independent RET control for each array (x6)

TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	600 (23.6) x 220 (8.6)
Packing Size (LxWxD)	mm (in)	680 (26.7) x 295 (11.6) x 445 (17.5)
Net Weight (antenna)	kg (lb)	7.5 (16.5)
Net Weight (mount)	kg (lb)	2.5 (5.5)
Shipping Weight	kg (lb)	10 (22)
Connector Type (Female)	-	N Type
Connector Quantity	-	4
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	110 (25)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	110 (25)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised PVC
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)

Mechanical Illustration

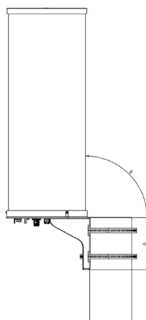
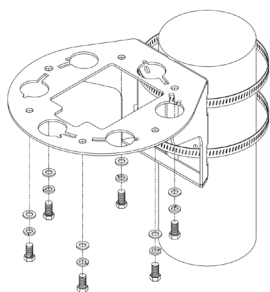
All measurements are in mm (in)



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-144 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	N/A

ORDERING INFO

AW3672-M-N-G Manual Electrical Tilt (MET) with N type Connectors

Small Cell

Common Name 20 Port - 8P Mid Band - 8P B42, 43 & 48 - 4P B46 - Small Cell

1695-2690/3400-3800/5150-5925MHz	20	MET	14/ 11 /6	65°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This Product design is intended to offer four dual ports on Mid Band, four dual ports on CBRS and two dual ports on LAA. The product is contained within a two foot high housing.

APPLICATION

This Alpha Wireless multi-band small cell provides sector coverage in an ultra compact radome design. This very special antenna provides 2G to 5G ports with LAA for ultimate data throughput. The antenna is designed to be installed in an urban environment where high port count and 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.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

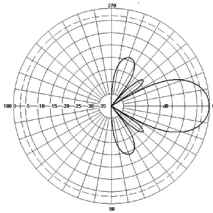
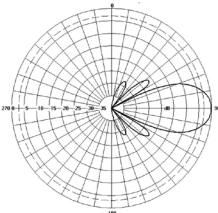
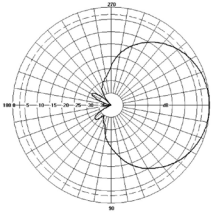
- High port enabling multiple operators.
- High Data rate frequency bands covered including Mid-Band, CBRS and LAA.
- Compact design for low visual impact.
- Mechanical electrical tilt of 2 to 10 degrees.
- Manufactured in Ireland.

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

TECHNICAL SPECIFICATION

Electrical Specifications							
Frequency Range	MHz	1695-1995	1920-2170	2170-2500	2500-2690	3400-3800	5150-5925
Polarisation	Degree	+/- 45° Slant Linear					
Gain							
	Min Tilt	dBi	13.4 (T2)	13.8 (T2)	14.0 (T2)	14.2 (T2)	11.0 (T0)
	Mid Tilt	dBi	13.2 (T6)	13.6 (T6)	13.8 (T6)	14.0 (T6)	11.0 (T0)
	Max Tilt	dBi	12.9 (T10)	13.3 (T10)	13.5 (T10)	13.7 (T10)	11.0 (T0)
	Overall	dBi	13.2	13.6	13.8	14.0	11.0 (T0)
Azimuth Beamwidth	Degree	71°	67°	63°	58°	60°	60°
Azimuth Beam Squint	Degree<	5°					
Elevation Beamwidth	Degree	19°	17°	15°	13°	30°	25°
Electrical Downtilt	Degree	T2° - T10°	T2° - T10°	T2° - T10°	T2° - T10°	T0°	T0°
Electrical Downtilt Deviation	Degree<	1.5	1.5	1.5	1.5	3.0	3.0
Impedance	Ohms	50					
VSWR	<	1.5					
Return Loss	dB>	14					
Isolation	dB>	25	25	25	25	22	22
Front to Back Ratio: Total Power +/-30°	dB>	27	27	27	27	25	25
Passive Intermodulation	dBc<	-153				N/A	N/A
Cross-Polar Discrimination	dB>	16	16	16	16	16	16
Maximum Effective Power Per Port	W	250	250	250	250	50	1

Radiation Pattern Files



1695 - 2690MHz

3.5GHz / 5.5GHz

Azimuth

Elevation

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

Canister

Panel

Small Cell

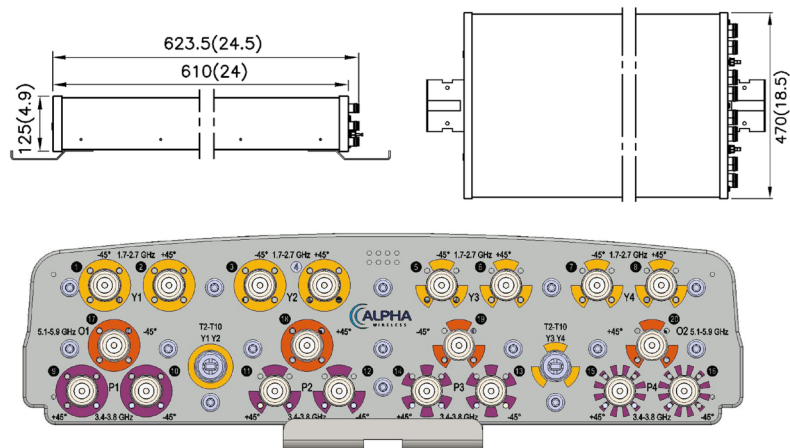
Concealment

TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions	mm (in)	610 (24) x 470 (18.5) x 125 (4.9)
Volume	ft ³ (l)	1.3 (36.8)
Packing Size (LxWxD)	mm (in)	800 (31.5) x 510 (20.1) x 190 (7.5)
Net Weight (antenna)	kg (lb)	10 (22)
Net Weight (mount)	kg (lb)	1.5 (3.3)
Shipping Weight	kg (lb)	11.5 (25.4)
Connector Type (Female)	-	4.3-10
Connector Position	-	Bottom
Connector Quantity	-	20 (8P Mid band, 8P High Band CBRS, 4P High Band LAA)
Windload Frontal (at Rated Wind Speed: 150km/h)	N	260 (59)
Windload Lateral (at Rated Wind Speed: 150km/h)	N	90 (20)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	ASA
Radome Colour	RAL	7035
Product Compliance Environmental	-	RoHS
Lightening Protection	-	DC Grounded
Cold Temperature Survival	Celsius (Fahrenheit)	-40 (-40)
Hot Temperature Survival	Celsius (Fahrenheit)	70 (158)

Mechanical Illustration

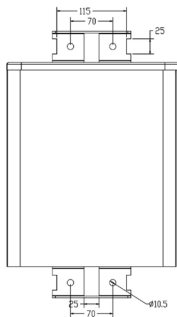
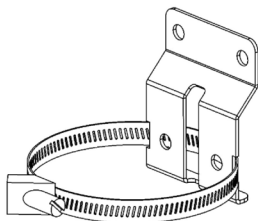


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TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-119 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0	Stainless Steel	N/A

ORDERING INFO

AW3689-M-F Manual Electrical Tilt with 4.3-10 connectors

Small Cell

Common Name 18 Port Small Cell 65°- Low Band, Mid Band, CBRS & LAA

617-894 / 1695-2690 / 3400-3800 / 5150-5925MHz	18	MET	7/14/11 /6	65°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This product design is intended to offer multiple ports across multiple bands. There are four Low Band ports, eight Mid Band Ports, four CBRS ports and two LAA ports. The Low Band extends down to the 617MHz band using wideband technology.
On Midband there is Mechanical Electrical Tilt adjustment. The eight Midband ports are split into two groups of four and tilt is controlled as per table below.

MET	Control
Tilt Screw 1	Ports 1 - 4
Tilt Screw 2	Ports 5 - 8

Low band, CBRS and LAA are Fixed Tilt.

Unit meets FCC Part 15.407 (a) (1) (i) for U-NII Band requirements.

APPLICATION

This Alpha Wireless multi-port multi-band small cell provides a solution where 24" height is important. This antenna has been designed for use in both Venue and Right of Way type deployments.

There are a number of mounting options available making deployments on lamp posts, utility poles, walls and other vertical structures possible. A bracket that straps the antenna vertical to a pole comes as standard. This can be upgraded to a mount bracket that enables mechanical tilt if required.

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.



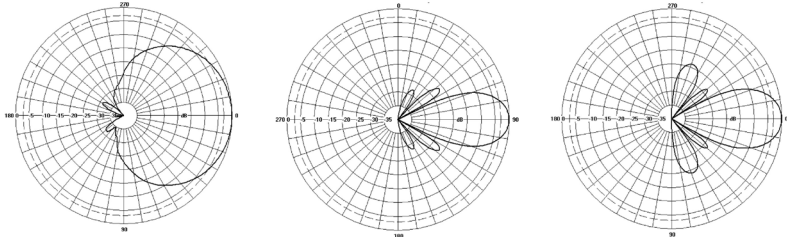
FEATURES

- High Port count enabling multiple operators.
- High Data rate frequency bands covered including Mid Band, CBRS and LAA.
- Low Band extends down to 617MHz
- Compact design for low visual impact.
- Variable Tilt on Midband only
- Meets current U-NII-1 requirements for gain and upper side lobe performance.
- Manufactured in Ireland.

TECHNICAL SPECIFICATION

Electrical Specifications		Low Band				Mid Band				3.5/ 5.5GHz	
Frequency Range per Input	MHz	617-686	686-755	755-824	824-894	1695-1995	1920-2170	2170-2500	2500-2690	3400-3800	5150-5925
Polarisation		+/- 45° Slant Linear									
Gain	dBi										
Min Tilt	dBi	7.2 (T0)	7.6 (T0)	7.9 (T0)	8.2 (T0)	13.0 (T2)	13.6 (T2)	14.1 (T2)	14.5 (T2)	11 (T0)	6 (T0)
Mid Tilt	dBi	7.2 (T0)	7.6 (T0)	7.9 (T0)	8.2 (T0)	12.8 (T6)	13.3 (T6)	13.8 (T6)	14.2 (T6)	11 (T0)	6 (T0)
Max Tilt	dBi	7.2 (T0)	7.6 (T0)	7.9 (T0)	8.2 (T0)	12.6 (T10)	13.1 (T10)	13.6 (T10)	14.0 (T10)	11 (T0)	6 (T0)
Overall Tilts	dBi	7.2	7.6	7.9	8.2	12.8	13.3	13.8	14.2	11	6
Azimuth Beamwidth	Degree	75° ±8°	72° ±8°	70° ±7°	66° ±7°	68° ±7°	66° ±7°	62° ±7°	58° ±6°	60° ±6°	57° ±6°
Azimuth Beam Squint	Degree <	5°	5°	5°	5°	5°	5°	5°	5°	5°	5°
Elevation Beamwidth	Degree	88° ±9°	72° ±8°	66° ±7°	64° ±8°	19° ±2°	17° ±2°	15° ±2°	13° ±2°	33° ±3°	26° ±3°
Electrical Downtilt	Degree	T0°	T0°	T0°	T0°	T2°-T10°	T2°-T10°	T2°-T10°	T2°-T10°	T0°	T0°
Electrical Downtilt Deviation	Degree <	5°	5°	5°	5°	1.5	1.5	1.5	1.5	3.0	3.0
Impedance	Ohms	50	50	50	50	50	50	50	50	50	50
VSWR	NA <	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Return Loss	dB >	14	14	14	14	14	14	14	14	14	14
Isolation	dB >	25	25	25	25	27	27	27	27	25	25
Passive Intermodulation	dBc <	-153	-153	-153	-153	-153	-153	-153	-153	N/A	N/A
Cross Polar Discrimination	dB >	16	16	16	16	16	16	16	16	16	16
Maximum Effective Power Per Port	W	100	100	100	100	250	250	250	250	50	1

Radiation Pattern Files



1695 - 2690MHz

1695 - 2690MHz

3.5GHz / 5.5GHz

Azimuth

Elevation

Canister

Panel

Small Cell

Concealment

TECHNICAL SPECIFICATION**Mechanical Specifications**

Dimensions	mm (in)	610 (24) x 508 (20) x 170 (6.7)
Packing Size (LxWxD)	mm (in)	800 (31.5) x 510 (20.1) x 200 (7.9)
Net Weight (antenna)	kg (lb)	12.5 (27.6)
Net Weight (mount)	kg (lb)	1.5 (3.3)
Shipping Weight	kg (lb)	14 (30.9)
Connector Type (Female)	-	4.3-10
Connector Position	-	Bottom
Connector Position Quantity	-	18 (4P Low band, 8P Mid band, 4P High band CBRS & 2P High Band LAA)
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	320 (190)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	110 (70)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	ASA Capped ABS
Radome Colour	RAL	7035
Product Compliance Environmental	-	RoHS
Lightening Protection	-	DC Grounded
Cold Temperature Survival	Celsius (Fahrenheit)	-40 (-40)
Hot Temperature Survival	Celsius (Fahrenheit)	70 (158)

Canister

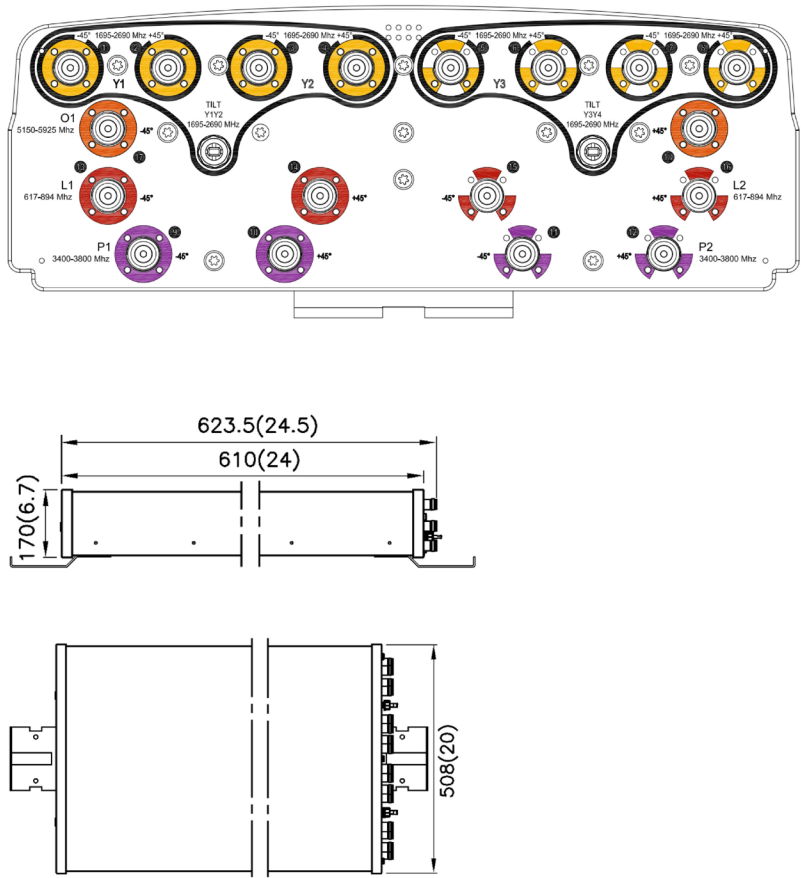
Panel

Small Cell

Concealment

TECHNICAL SPECIFICATION

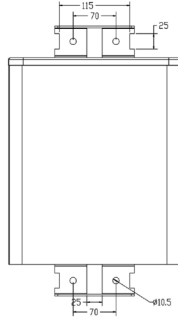
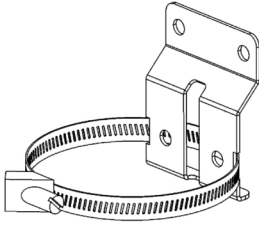
Mechanical Illustration



TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-119 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0	Stainless Steel	N/A

ORDERING INFO

AW3724-M-F Mechanical Electrical Tilt with 4.3-10 Connectors.

Common Name 24 Port Small Cell 65°- Low Band, Mid Band, CBRS & LAA

617-894 / 1695-2690 / 3400-3800 / 5150-5925MHz	24	eRET / MET	11/14/11 /6	65°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

This product design is intended to offer multiple ports across multiple bands. There are four Low Band ports, eight Mid Band Ports, eight CBRS ports and four LAA ports. The Low Band extends down to the 617MHz band using wideband technology.

On Midband there is Mechanical Electrical tilt (MET) or Enclosed Remote Electrical tilt (eRET) options. The eight Midband ports are split into two groups of four and tilt is controlled as per table below.

MET	eRET	Control
Tilt Screw 1	AISG Motor 1	Ports 1-4
Tilt Screw 2	AISG Motor 2	Ports 5-8

Low band, CBRS and LAA are Fixed Tilt.

Unit meets FCC Part 15.407 (a) (1) (i) for U-NII Band requirements.



APPLICATION

This Alpha Wireless multi-port multi-band small cell provides a solution where 48" height is important. This antenna has been designed for use in both Venue and Right of Way type deployments.

There are a number of mounting options available making deployments on lamp posts, utility poles, walls and other vertical structures possible. A bracket that straps the antenna vertical to a pole comes as standard. This can be upgraded to a mount bracket that enables mechanical tilt if required.

FEATURES

- High Port count enabling multiple operators.
- High Data rate frequency bands covered including Mid Band, CBRS and LAA.
- Low Band extends down to 617MHz
- Compact design for low visual impact.
- Meets current U-NII-1 requirements for gain and upper side lobe performance.
- Variable tilt on Midband only
- MET or eRET options.
- Manufactured in Ireland.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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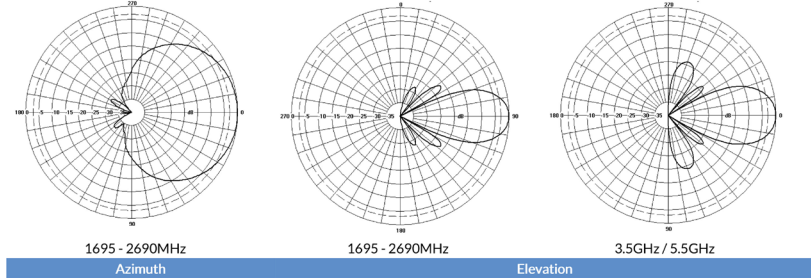


The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 9.6.

TECHNICAL SPECIFICATION

Electrical Specifications		Low Band				Mid Band				3.5/5.5GHz	
Frequency Range per Input	MHz	617-686	686-755	755-824	824-894	1695-1995	1920-2170	2170-2500	2500-2690	3400-3800	5150-5925
Polarisation		+/- 45° Slant Linear									
Gain	dBi										
Min Tilt	dBi	10.2 (T0)	10.7 (T0)	11.3 (T0)	11.7 (T0)	13.0 (T2)	13.6 (T2)	14.1 (T2)	14.5 (T2)	11 (T0)	6 (T0)
Mid Tilt	dBi	10.2 (T0)	10.7 (T0)	11.3 (T0)	11.7 (T0)	12.8 (T6)	13.3 (T6)	13.8 (T6)	14.2 (T6)	11 (T0)	6 (T0)
Max Tilt	dBi	10.2 (T0)	10.7 (T0)	11.3 (T0)	11.7 (T0)	12.6 (T10)	13.1 (T10)	13.6 (T10)	14.0 (T10)	11 (T0)	6 (T0)
Overall Tilts	dBi	10.2	10.7	11.3	11.7	12.8	13.3	13.8	14.2	11	6
Azimuth Beamwidth	Degree	78° ±8°	75° ±8°	69° ±7°	64° ±7°	68° ±7°	66° ±7°	62° ±7°	58° ±6°	60° ±6°	57° ±6°
Azimuth Beam Squint	Degree <	5°	5°	5°	5°	5°	5°	5°	5°	5°	5°
Elevation Beamwidth	Degree	40° ±4°	37° ±4°	34° ±4°	32° ±4°	19° ±2°	17° ±2°	15° ±2°	13° ±2°	33° ±4°	26° ±3°
Electrical Downtilt	Degree	T0°	T0°	T0°	T0°	T2°-T10°	T2°-T10°	T2°-T10°	T2°-T10°	T0°	T0°
Electrical Downtilt Deviation	Degree <	3°	3°	3°	3°	1.5	1.5	1.5	1.5	3.0	3.0
Impedance	Ohms	50	50	50	50	50	50	50	50	50	50
VSWR	NA <	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Return Loss	dB >	14	14	14	14	14	14	14	14	14	14
Isolation	dB >	25	25	25	25	27	27	27	27	25	25
Passive Intermodulation	dBc <	-153	-153	-153	-153	-153	-153	-153	-153	N/A	N/A
Cross Polar Discrimination	dB >	16	16	16	16	16	16	16	16	16	16
Maximum Effective Power Per Port	W	100	100	100	100	250	250	250	250	50	1

Radiation Pattern Files



Canister

Panel

Small Cell

Concealment

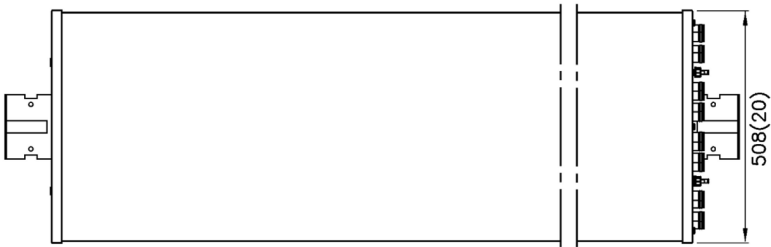
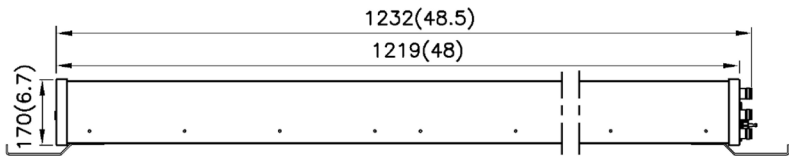
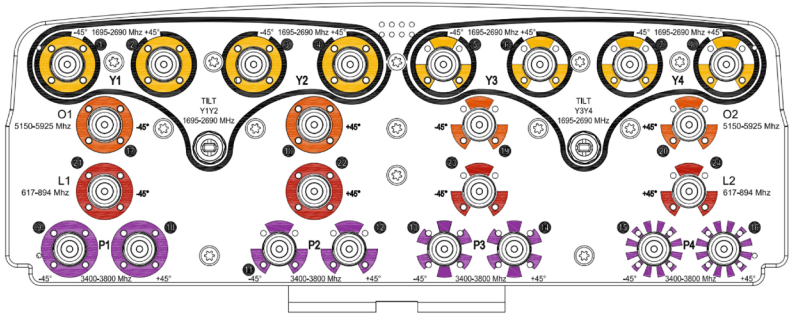
TECHNICAL SPECIFICATION

Mechanical Specifications

Dimensions	mm (in)	1219 (48) x 508 (20) x 170 (6.7)
Packing Size (LxWxD)	mm (in)	1270 (50) x 510 (20.1) x 200 (7.9)
Net Weight (antenna)	kg (lb)	12.5 (27.6)
Net Weight (mount)	kg (lb)	1.5 (3.3)
Shipping Weight	kg (lb)	14 (30.9)
Connector Type (Female)	-	4.3-10
Connector Position	-	Bottom
Connector Position Quantity	-	24 (4P Low band, 8P Mid band, 8P High band CBRS & 4P High Band LAA)
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	591 (133)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	183 (30.9)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	ASA Capped ABS
Radome Colour	RAL	7035
Product Compliance Environmental	-	RoHS
Lightening Protection	-	DC Grounded
Cold Temperature Survival	Celsius (Fahrenheit)	-40 (-40)
Hot Temperature Survival	Celsius (Fahrenheit)	70 (158)

TECHNICAL SPECIFICATION

Mechanical Illustration



Canister

Panel

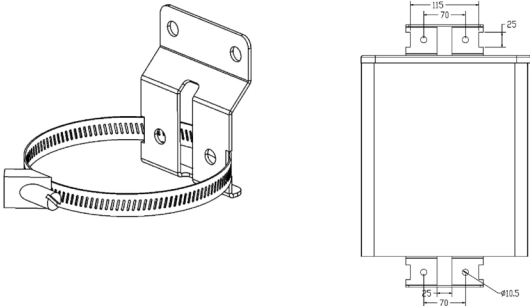
Small Cell

Concealment

TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-119 (Mounting Kit included with Antenna)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0	Stainless Steel	N/A

ORDERING INFO

AW3724-M-F Mechanical Electrical Tilt with 4.3-10 Connectors.



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