



DATASHEET

AW3658-S-G

Common Name- 4 Port, 38", B41 - rCAN

2496 - 2690MHz	4	Fixed	8.2	360°
Frequency	Ports	Tilt	Gain	Beamwidth

PRODUCT INFORMATION

Solution was created to comply with FCC OTARD requirements to accelerate mini macro deployments on rooftop locations. Key objective was to provide an integrated solution one metre or less which would be easily and quickly deployable. This solution meets those criteria as well as reduces both CapEx and deployment times by more than 50%

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, placing network access points closer to the subscriber. Network access points will be closer to where subscribers live, work and play. The CONCEALMENT set of solutions are designed to minimize the visual impact to the community. These solutions will enable the MNO to reduce the rent, backhaul and potentially power costs. They will help drive increased revenue.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

- Optimised for 3GPP band 38 & 41
- Compact design for low visual impact
- Rooftop deployment option
- Integrated GPS Antenna

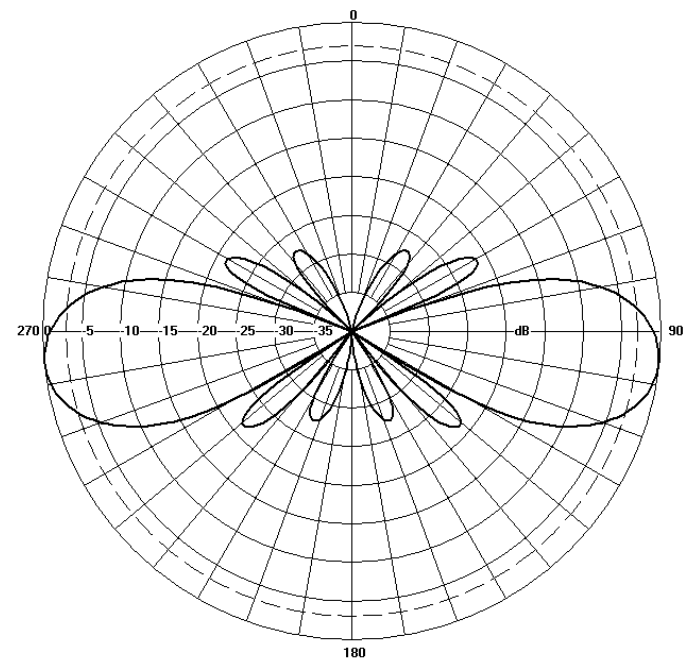
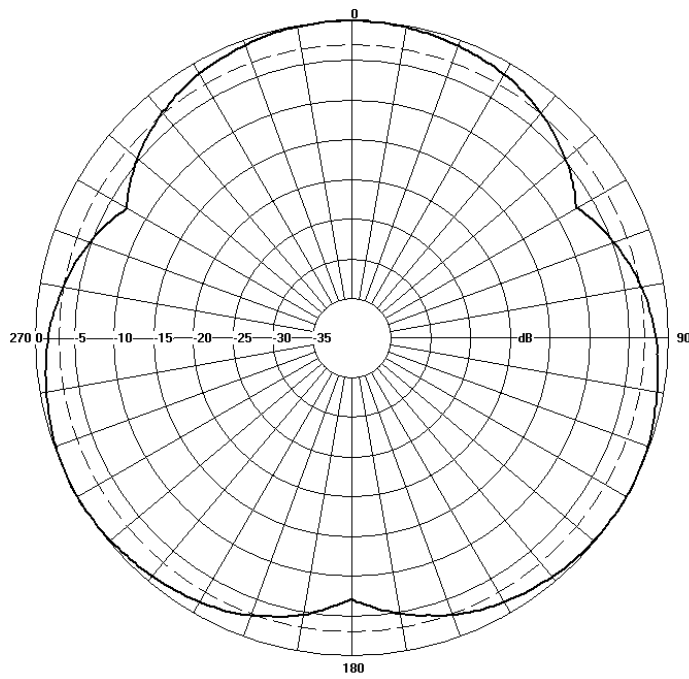


The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 9.6.

TECHNICAL SPECIFICATION

Electrical Specifications			
Frequency Range	MHz	2496 - 2690MHz	
Polarisation	Degree	+/- 45° Slant Linear	
Gain	Basta	dBi	7.7±0.5
	Max	dBi	8.2
Azimuth Beamwidth	Degree	360°	
Elevation Beamwidth	Degree	14°	
Electrical Downtilt	Degree	T6°	
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	

Representative Pattern Files



Azimuth

Elevation

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

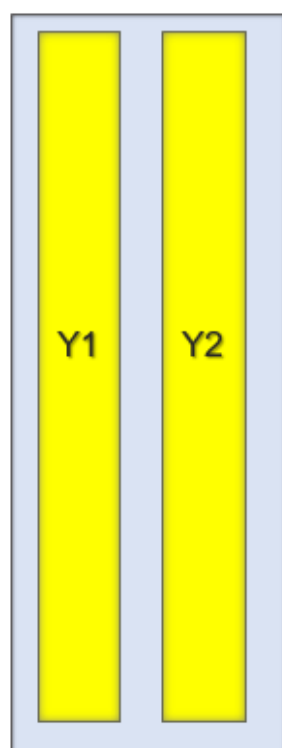
TECHNICAL SPECIFICATION

Mechanical Specifications		
Dimensions (LxØ)	mm (in)	976 (38.4) x 518 (20.4)
Volume	ft ³ (l)	7.1 (201)
Packing Size (LxWxD)	mm (in)	1030 (40.5) x 525 (20.7) x 525 (20.7)
Net Weight (antenna)	kg (lb)	41 (90)
Shipping Weight	kg (lb)	42 (92)
Connector Type (Female)	-	Mini DIN and N Type GPS
Connector Quantity	-	5 (4 x 4.3-10 & 1 x N Type GPS)
Connector Position	-	Bottom
Windload Frontal (at Rated Wind Speed: 150km/h)	N (lbf)	395 (90)
Windload Lateral (at Rated Wind Speed: 150km/h)	N (lbf)	395 (90)
Survival Wind Speed	km/h (mph)	200 (125)
Radome Material	-	UV-Stabilised ABS
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)

Electrical Power Specification

Power Requirement	VAC/Amp	110 - 120 / 20
Main Breaker	Amp	20
Fan Breaker	Amp	1
Mini Macro Radio	Amp	7
Microwave Radio	Amp	2
Surge Protection	VAC/Amp	40K

Array Layout and RET Information



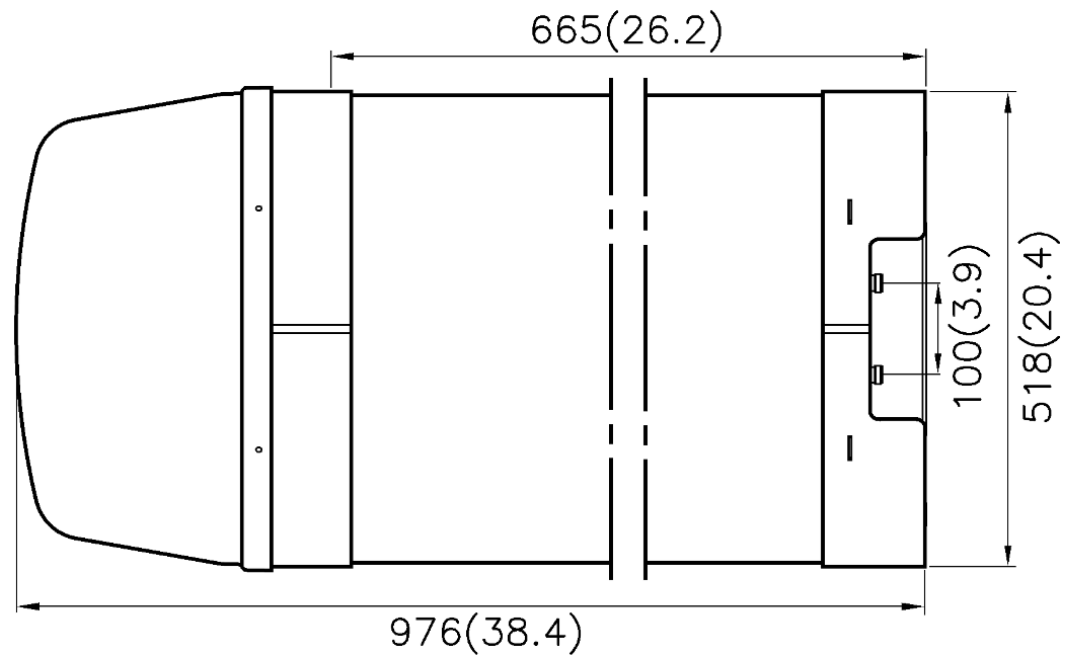
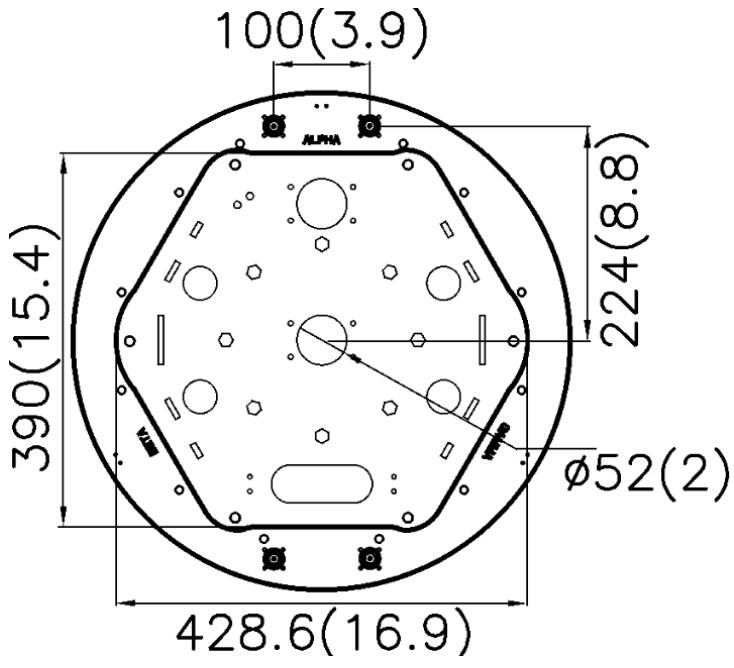
Array	Frequency MHz	Ports
Y1	2496 – 2690	1 – 2
Y2	2496 – 2690	3 – 4

Note: Coloured box sizes do not represent antenna sizes.

TECHNICAL SPECIFICATION

Mechanical Illustration

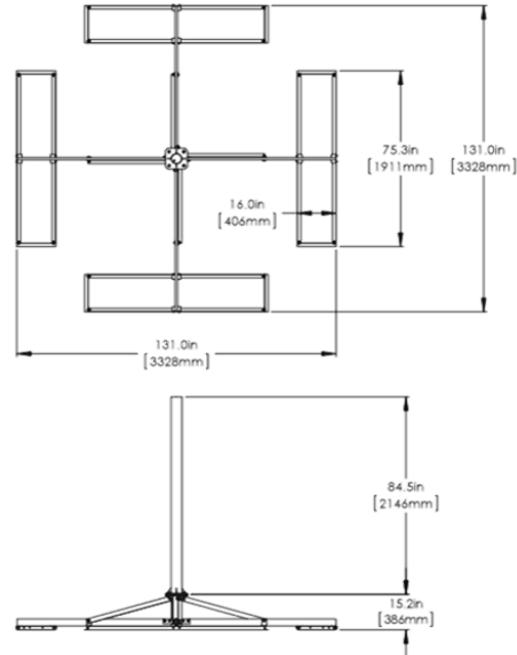
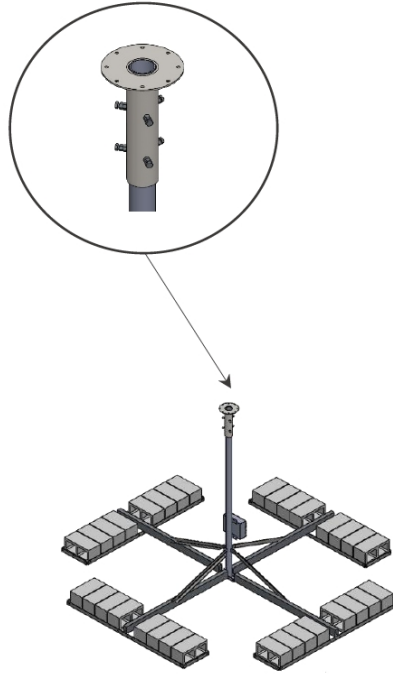
All measurements are in mm (in)



TECHNICAL SPECIFICATION

Mounting Bracket Kit

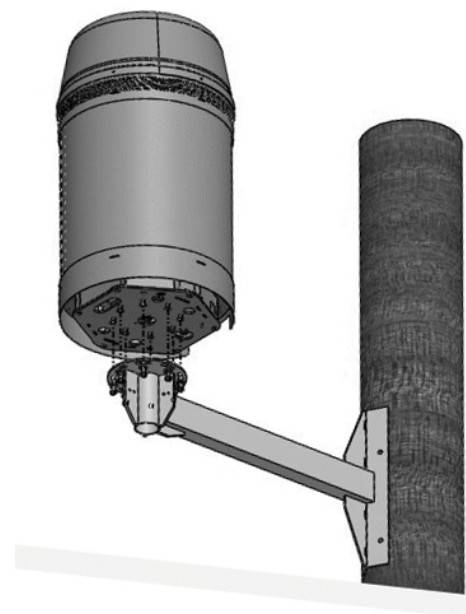
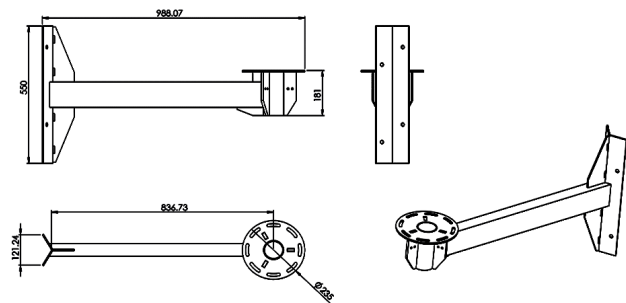
CL-V-133 – rCAN Full size SKID (Optional)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	50mm-115mm (2" to 4.5")

Mounting Bracket Kit

CL-V-135 - rCAN Standoff Mounting Bracket (Optional)

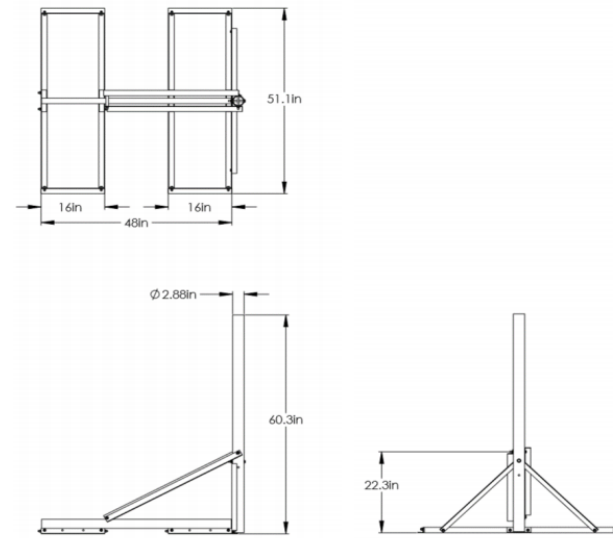
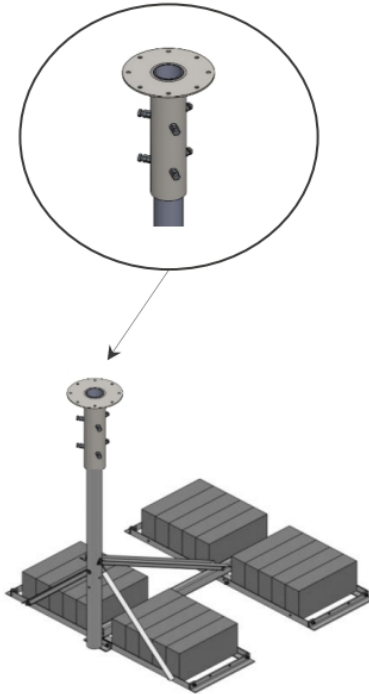


Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0°	Stainless Steel	N/A

TECHNICAL SPECIFICATION

Mounting Bracket Kit

CL-V-138 - rCAN reduced size SKID (Optional)



Mounting Kit Tilt Range	Mounting Kit Material	Mounting Kit Pole Diameter
0° to 10°	Galvanised Steel	152mm-254mm (6" to 10")

Ordering Info

Order Code - Antenna
AW3658-S-G

Order Code - Accessories
CL-V-133
CL-V-135
CL-V-138

Description

Six Degrees Fixed Tilt with 4 Mini Din Connectors, Integrated GPS.

Description

rCAN full size skid - Optional
rCAN Standoff Mounting Bracket - Optional
rCAN reduced size skid - Optional

Enquiries

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