AW3452 Data Sheet

3300-3800MHz Sector Antenna

(Quad Port, 33° Beamwidth, +/-45° Polarisation, eRET)

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

RF Specifications

Frequency Range per Input	MHz	3300 - 3800
Polarisation:	NA	+/-45° Slant Linear
Gain		
0 Tilt	dBi	19.3* (+/- 0.5dBi)
5 Tilt	dBi	19.2* (+/- 0.5dBi)
10 Tilt	dBi	18.9* (+/- 0.5dBi)
Over all Tilts	dBi	19.2* (+/- 0.5dBi)
Azimuth Beamwidth	Degree	33* (+/- 5°)
Azimuth Beam Squint	Degree <	3
Elevation Beamwidth	Degree	7* (+/- 1°)
Electrical Downtilt:	Degree	$T0^0$ - $T10^0$
Electrical Downtilt Deviation	Degree <	1
Impedance	Ohms	50
VSWR	NA <	1.4
Return Loss:	dB >	15
Isolation	dB >	28
Front to Back Ratio: Total Power +/-30^0*	dB >	30
Upper Sidelobe Suppression, Peak to 20^0*	dB >	16
Azimuth Sidelobes*	dB >	22
Cross Polar Discrimination at Sector*	dB >	16
Maximum Effective Power Per Port	W	100



The above specs apply to all tilts execpt where specified

Mechanical Specifications

Dimensions (LxWxD) mm (in)	mm (in)	800 (31.5) x 320 (12.6) x 100 (4.0)
Packing Size (LxWxD)	mm (in)	860 (33.8) x 460 (18.1) x 178 (7)
Net Weight (antenna)	kg (lb)	15 (30.8)
Net Weight (mount)	kg (lb)	1 (2.2)
Shipping Weight	kg (lb)	15 (33)
Connector Quantity	NA	4 x 4.3-10
		2 x AISG 2.0 (Male & Female)
Connector position	NA	Bottom
Windload calculation	km/h	F=1/2*ρ*(Cdp*λ)*v2*A
Windload Frontal	N	620
Windload Lateral	N	200
Survival Wind Speed	km/h	200 (125)
Radome Material	NA	UV-Stabilised PVC
Radome Colour	RAL	7035
RET Configuration		1 x RCU to Control both Columns enclosed RET- AISG 2.0
Product Compliance Environmental	NA	RoHS
Lightening Protection	NA	DC Grounded
Cold Temperature Survival	Celsius	-40
Hot Temperature Survival	Celsius	+ 70

* Mean average across all ports.

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Web: www.alphaantennas.com Email: info@alphaantennas.com

* Alpha Wireless are always improving products; specification subject to change without notice.