

## 2300-2700MHz Sector Antenna

(Dual Port, 65° Beamwidth, +/-45° Polarisation, \*\* MET & eRET Options Available)

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

### RF Specifications

Frequency Range per Input	MHz	2300 - 2700
Polarisation:	NA	+/-45° Slant Linear
Gain		
0 Tilt	dBi	17.3
5 Tilt	dBi	17
10 Tilt	dBi	16.7
Over all Tilts	dBi	17
Azimuth Beamwidth	Degree	65
Azimuth Beam Squint	Degree <	3
Elevation Beamwidth	Degree	7
Electrical Downtilt:	Degree	T0°-T10°
Electrical Downtilt Deviation	Degree <	1
Impedance	Ohms	50
VSWR	NA <	1.5
Return Loss:	dB >	14
Isolation	dB >	27
Front to Back Ratio: Total Power +/-30°	dB >	30
Upper Sidelobe Suppression, Peak to 20°	dB >	18
Cross Polar Discrimination at Sector	dB >	16
Maximum Effective Power Per Port	W	150



### Mechanical Specifications

Dimensions (LxWxD) mm (in)	mm (in)	1050 (41.3) x 160 (6.2) x 85 (3.3)
Packing Size (LxWxD)	mm (in)	1123 (44.4) x 240 (9.4) x 178 (7)
Net Weight (antenna)	kg (lb)	8 (17.6)
Net Weight (mount)	kg (lb)	1.43 (3.1)
Shipping Weight	kg (lb)	9.4 (20.7)
Connector Quantity	NA	2 x N Type Female
Connector Position	NA	Bottom
Windload calculation	km/h	$F=1/2*\rho*(Cdp*\lambda)*v^2*A$
Windload Frontal	N	340
Windload Lateral	N	167
Survival Wind Speed	km/h	200 (125)
Radome Material	NA	UV-Stabilised PVC
Radome Colour	RAL	7035
RET Options		Manual adjust or RCU AISG 2.0
Product Compliance Environmental	NA	RoHS
Lightening Protection	NA	DC Grounded
Cold Temperature Survival	Celsius	-40
Hot Temperature Survival	Celsius	+ 70

### \*\* Ordering Information

AW3159-M - Manual Electrical Tilt (MET)

AW3159-E - Integrated RET (eRET)