

3400-3800MHz Sector Antenna

(Eight Port BeamForming, 72° Beamwidth, +/-45° Polarisation)
(0.65λ Spacing between Columns)

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

RF Specifications

| | | |
|---|---------------------|---------------------|
| Frequency Range per Input | MHz | 3400 - 3800 |
| Polarisation: | NA | +/-45° Slant Linear |
| Gain | | |
| Single Column | dBi | 16.5 ± 1 |
| Broadcast Beam | dBi | 16.5 ± 1 |
| Service Beam | dBi | 21.0 ± 1 |
| Calibration Network | Coupling Factor | 26±2 dB |
| | Max amp deviation | 1 |
| | Max phase deviation | 5 |
| Single Column Azimuth Beamwidth | 3dB BW | 72 |
| Broadcast Beam Azimuth Beamwidth | 3dB BW | 72 |
| Service Beam | 3dB BW | 22 ± 2.0 |
| Azimuth Beam Squint | Degree < | 3 |
| Elevation Beamwidth | Degree | 6.5 |
| Electrical Downtilt: | Degree | T0° or T2° (*) |
| Electrical Downtilt Deviation | Degree < | 1° |
| Impedance | Ohms | 50 |
| VSWR | NA < | 1.5 |
| Return Loss: | dB > | 14 |
| Isolation | dB > | 25 |
| Front to Back Ratio: Total Power at +/- 30° | dB > | 25 |
| Upper Sidelobe Suppression, Peak to 20° | dB > | 17 |
| Cross Polar Discrimination at Sector | dB > | 16 |
| Maximum Effective Power Per Port | W | 150 |



Mechanical Specifications

| | | |
|----------------------------------|---------|--------------------------------------|
| Dimensions (LxWxD) mm (in) | mm (in) | 950 (37.4) x 326 (12.8) x 100 (3.9) |
| Packing Size (LxWxD) | mm (in) | 1025 (40.4) x 380 (15) x 210 (8.3) |
| Net Weight (antenna) | kg (lb) | 12 (26.5) |
| Net Weight (mount) | kg (lb) | 3 (6.6) |
| Shipping Weight | kg (lb) | 16 (35.3) |
| Connector Quantity | NA | 8 x N Type + 1 x N Type for Cal Port |
| Connector Position | NA | Bottom |
| Windload calculation | km/h | $F=1/2*\rho*(Cdp*\lambda)*v2*A$ |
| Windload Frontal | N | 620 |
| Windload Lateral | N | 250 |
| Survival Wind Speed | km/h | 200 (125) |
| Radome Material | NA | UV-Stabilised PVC |
| Radome Colour | RAL | 7035 |
| Product Compliance Environmental | NA | RoHS |
| Lightening Protection | NA | DC Grounded |
| Cold Temperature Survival | Celsius | -40 |
| Hot Temperature Survival | Celsius | + 70 |

*Ordering Information:

AW3566-xx-N

→ T0 - for 0deg down tilt
T2 - for 2deg down tilt