

Antenna Specification Sheet

Electrical Performance

Antenna Part Number		A80
Antenna Dimensions (w x h)		79.5cm x 86cm
Operating Frequency	Rx	10.7 - 12.75 GHz
Polarisation		Linear
Gain (min) @ 10.7 GHz		37.2 dBi
@ 11.7 GHz		37.5 dBi
@ 12.75 GHz		38.7 dBi
3dB Beamwidth (Max) @ 10.75 GHz		2.4°
@ 11.7 GHz		2.2°
Sidelobe Envelope (ETSI 300 159)		29 - 25 θ Log for $2.5^\circ < \theta < 7^\circ$ 8 for $7^\circ < \theta < 9.2^\circ$ 32 - 25 θ Log for $9.2^\circ < \theta < 48^\circ$ -10 for $\theta > 48^\circ$
Antenna Cross-Polarisation		> 26dB on axis > 29dB elsewhere

Mechanical Performance

Reflector Material		Steel
Antenna Optics		Offset Prime Focus
Mount Type		Elevation over Azimuth
Elevation Adjustment Range		0° to 50°
Azimuth Adjustment Range		360°
Wind Loading	Operational Survival	100km/H 200km/H
Temperature		-50 to +80°C
Humidity		0 to 100% Condensation
Atmosphere		Salt, Pollutants and Containments encountered in coastal and industrial areas
Solar Radiation		1120W/m ²
Shock & Vibration		As encountered during shipping & handling
wall mount supplied		Wall & Patio mount tube
Mast Pipe Interface		40 - 62mm



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