

This is a rugged commercial grade antenna system, suitable for the most demanding applications.

Key Features

- All materials comply with EU directive No. 2002/95/EC (RoHS).
- Reflector constructed from glass fiber reinforced polyester (SMC) for strength and accuracy.
- Galvanized 19mm O.D. feed support legs for lightweight outdoor units (ODUs)*.
- Meets or exceeds regulatory agency requirements.
- Precision Az/EI mount with fine adjustments, constructed from heavy-gauge steel for rigid support.
- All hardware is plated to withstand 72 hour salt spray according to ASTM B-117 standards
- SMC reflector



MECHANICAL	
Effective aperture	120cm
Platform geometry/optics	One-piece offset feed prime focus
Pointing	Fixed
Azimuth range	360° continuous (±5° fine adjustment)
Elevation range	5° - 90° continuous
Material	SMC
Mast pipe interface diameter	73 - 76mm
Approximate weight excluding mast	16kg

ENVIRONMENTAL	
Wind operational	72km/h
Wind survival	200km/h
Temperature range	-50°C to +80°C
Humidity	0 - 100% (condensing)
Atmosphere	72 hours STM B-117 (salt fog test)
Solar radiation	360BTU/h/ft ²

RF		
Frequency range	Tx	12.75 - 13.25GHz
	Rx	10.70 - 11.70GHz
Gain	Tx	42.2dB @ 13.0GHz
	Rx	41.1dB @ 11.2GHz
Gain variation		±0.3 dB
Polarization		Linear orthogonal (co-pol optional)
Sidelobe compliance	100 λ/D < θ < 20°	29 - 25 Log θ dB
	20° < θ < 26.3°	-3.5 dB
	26.3° < θ < 48°	32-25 Log θ dB
	48° < θ < 180°	-10 dB (typical)
VSWR	Tx	1.3:1
	Rx	1.5:1
Isolation	Tx	90dB
	Rx	40dB
Cross-pol 1dB beamwidth		>30dB
Noise temperature	10° EI	48°K
	20° EI	35°K
	30° EI	29°K
Feed Interface	Tx	WR75
	Rx	WR75