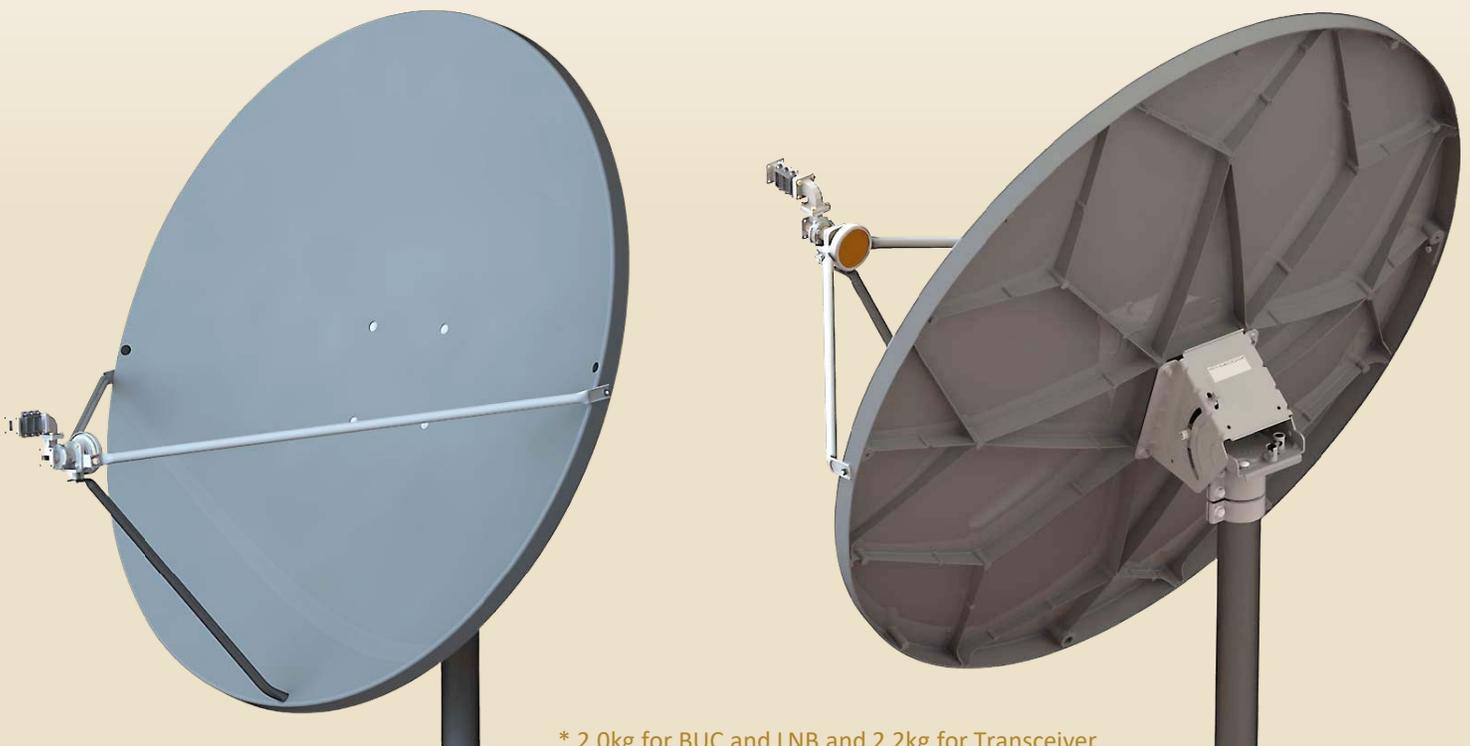


This is a rugged commercial grade antenna system, suitable for the most demanding applications.

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



* 2.0kg for BUC and LNB and 2.2kg for Transceiver

1.2m Lower Ku-band Tx/Rx Class I Antenna System [Model SBAF120UL]

Specifications

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 $\lambda/D < \Theta < 20^\circ$ 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