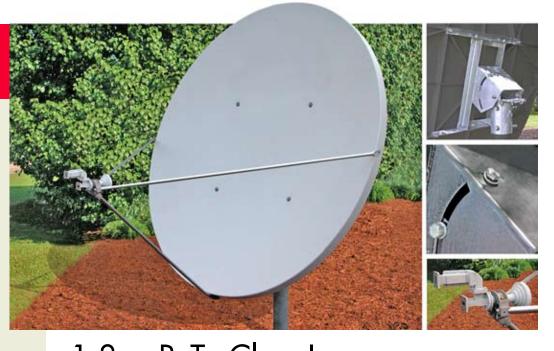


PRODUCT SPECIFICATIONS

Detail Photos (on right from top to bottom) Pre-assembled Az/El Mount Fine-elevation adjustment with stamped degree scale RF tested Ku-band feed assembly



1.8 m RxTx Class I Antenna System TYPE 180TX

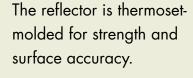
transmit performance.

he ASC Signal Type 180TX 1.8 m Class I RxTx Antenna is a rugged commercial grade product suitable for the most demanding applications. The reflector is thermoset-molded for strength and surface accuracy. Molded into the rear of the reflector is a network of support ribs which not only strengthens the antenna, but also helps to sustain the critical parabolic shape necessary for

The Az/El mount is constructed from heavy-gauge steel to provide a rigid support to the reflector. The Az/El mount secures the antenna to any 114 mm (4.50") O.D. mast and prevents slippage in high winds. Hot-dip galvanizing is standard for extreme environmental conditions.

- All materials comply with EU directive No. 2002/95/EC (RoHS).
- One-piece thermoset-molded offset reflector.
- Single bolt fine elevation adjustment.
- Galvanized 19 mm (.75") O.D. feed support legs
- Plated hardware for maximum corrosion resistance.
- Available with C-Band or Ku-Band feeds
- Hot dip galvanized Az/El mount.
- Designed for typical 1 W and 2 W Block Up-Converters (BUCs)*
- * 2 kg or 4.5 lb max. weight for RF electronics (BUC and LNB) Ku-Band

5 kg or 11 lb max. weight for RF electronics (BUC and LNB) at C-Band





Type 180TX 1.8 m RxTx Class I Antenna System

RF Performance

	C-band	Ku-band
Effective Aperture	1.8 m (71 in)	1.8 m (71 in)
Operating Frequency	Tx 5.850 - 6.725 GHz Rx 3.400 - 4.200 GHz	13.75 - 14.50 GHz 10.70 - 12.75 GHz
Polarization	Linear, Orthogonal	Linear, Orthogonal
Gain (±.2 dBi)	Tx 39.3 dBi @ 6.1 GHz Rx 35.5 dBi @ 3.9 GHz	46.8 dBi @ 14.3 GHz 45.3 dBi @ 12.0 GHz
3 dB Beamwidth	.Tx 2.0° @ 6.1 GHz	0.8° @ 14.3 GHz 1.0° @ 12.0 GHz
20° <⊖< 26.3° 26.3° <⊖< 48°	29 - 25 Log ⊖	29 - 25 Log ⊖ -3.5 32 - 25 Log ⊖ -10
Antenna Cross-Polarizati	on 30 dB on Axis	30 dB on Axis
20° El .	ore 41° K	43° K 28° K 23° K
VSWR	Tx 1.3:1	1.3:1 1.5:1
Isolation (Port to Port) .	Tx60 dB	80 dB 35 dB
Feed Interface	Tx CPR-137 or Type N	WR75 Flat Flange WR75 Flat Flange

(All specifications typical)

Mechanical Performance

Reflector Material		Glass Fiber Reinforced Polyester
Antenna Optics		One-Piece Offset Feed Prime Focus
Mount Type		Elevation over Azimuth
Elevation Adjustment Ran	ge	10° - 90° Continuous Fine Adjustment
Azimuth Adjustment Rang	e	360° Continuous, ±10° Fine
Mast Pipe Interface		114 mm (4.50 in) Diameter
Wind Loading	Operational Survival	80 km/h (50 mph) 200 km/h (125 mph)
Temperature		-50°C to 80°C
Humidity		0 to 100% (Condensing)
Atmosphere		Standard Hardware Meets 500 Hour Salt Spray Test Requirements (ASTM B-117)
Solar Radiation		360 BTU/h/ft²
Shock and Vibration		As Encountered During Shipping and Handling

