

PRODUCT SPECIFICATIONS

Detail Photos (on right from top to bottom) Az/El Mount Fine-elevation adjustment RF tested Ku-Band feed assembly



1.8 m Ku-Band Dual Optics RxTx Antenna System

TYPE 184

Type approved for use on Eutelsat Satellite System.



The Andrew Corporation Type 184
1.8 m Dual Optics RxTx Antenna is a rugged commercial grade product suitable for the most demanding applications. The dual optics design provides the superior cross-pol discrimination demanded for optimum performance on the Eutelsat satellite system.

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 maintain the critical parabolic shape necessary for transmit performance.

The Az/El mount is constructed from heavy-gauge steel to provide a rigid support to the reflector and feed support arm. Heavy-duty lock-down bolts secure

the mount to any 4.50" (114 mm) O.D. mast and prevent slippage in high wind. Hot-dip galvanizing is standard for maximum environmental protection.

- ETSI certified.
- Dual Optics design for ultra low cross-polarization.
- One-piece precision offset thermosetmolded reflector.
- Heavy-duty galvanized Az/El mount.
- Fine Azimuth and elevation adjustments.
- Galvanized and stainless hardware for maximum corrosion resistance.
- Includes Ku-Band feed assembly and precision aluminum sub-reflector.

TYPE 184 1.8 m Ku-Band Dual Optics RxTx Antenna System

Type Approval Information*

Antenna Model62-18452-02

Eutelsat StandardL, M

Approval CodeEA-A026

RF Performance

Effective Aperture		1.8m (71 in.)
Operating Frequency	Rx	
Polarization		Linear, Orthogonal
Gain (±.2 dBi)	Rx	
3 dB Beamwidth	Rx	
7°≤θ≤9.2°	Bi)	+8 32 - 25 Log θ
Antenna Cross-Polarization		32 dB 37 dB in 1 dB Contour
Antenna Noise Temperature	10° El	34°K
VSWR	Rx	
Isolation	Rx	
Feed Interface	Tx	WR75 Cover Flange (UBR120) WR75 Cover Flange (UBR120)

(All specifications typical)

Mechanical Performance

Reflector Material	One-Piece Glass Fiber Reinforced Polyester
Antenna Optics	. Offset Gregorian (Dual Optics)
Mount Type	. Elevation over Azimuth
Elevation Adjustment Range	10°-90° Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous; ± 10° Fine Adjustment
Feed Support	Rectangular Section with Alignment Legs
Mast Pipe Interface	4.50 in (114 mm) Diameter
Wind LoadingOperational	50 mi/h (80 km/h) 125 mi/h (200 km/h)
Temperature	50°C to 80°C
Humidity	0 to 100% (Condensing)
Atmosphere	. Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas
Solar Radiation	360 BTU/h/ft²
Shock and Vibration	. As Encountered During Shipping and Handling

^{*}See our web site for a complete list of type approvals.



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