

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



1.2 m RxTx Class I Antenna System

TYPE 123

he Andrew Corporation Type 123
1.2 m Class I RxTx Antenna is a
rugged commercial grade product
suitable for the most demanding
applications. The reflector is thermosetmolded 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
transmit performance. The reflector
optics features a long focal length for
excellent cross-pol performance,
required by many satellite operators.

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 2.88" - 3.00" O.D. (73-76 mm) mast and prevents slippage in high winds. A specially formulated powder

paint process offers excellent protection from weather-related corrosion.

- One-piece precision offset thermosetmolded reflector.
- Long focal length optics for low cross-pol performance.
- Fine azimuth and elevation adjustments.
- Available with Ku-Band Co-Pol. or Cross-Pol. feeds.
- Galvanized .75" (19 mm) O.D. feed support legs for lightweight outdoor units (ODU's).
- Plated hardware for maximum corrosion resistance.
- Class I system designed for typical 1W and 2W Ku-band Block Up-Converters*

*4.5 lb or 2 kg max. weight for RF electronics (BUC and LNB)

Type approved for use on Intelsat and Eutelsat Satellite Systems





TYPE 123 1.2 m RxTx Class I Antenna System

Type Approval Information*

Approval CodeIA077A00

Approval CodeEA-V048

RF Performance

Effective Aperture		.1.2 m (48 in)
Operating Frequency	.TxRx	
Polarization		Linear, Orthogonal
Gain (±.2 dBi)	.TxRx	
3 dB Beamwidth	.TxRx	
20° <θ< 26.3°		3.5 .32 - 25 Log θ
Antenna Cross-Polarization		.>30 dB in 1 dB Contour
Antenna Noise Temperature	.10° El	.31°K
VSWR	.TxRx	
Isolation, Port to Port	.TxRx	
Feed Interface	.Tx	•

Mechanical Performance

Reflector Material	. Glass Fiber Reinforced Polyester
Antenna Optics	. One-Piece Offset Feed Prime Focus Long Focal Length
Mount Type	. Elevation over Azimuth
Elevation Adjustment Range	. 7°-84° Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous; ±20° Fine Adjustment
Mast Pipe Interface	2.88 in - 3.00 in.(73-76 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

(All specifications typical)

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



Andrew Corporation 10500 W. 153rd Street Orland Park, IL 60462 USA

One Company. A World of Solutions.

Customer Support Center From North America

Telephone: 1-800-255-1479
Fax: 1-800-349-5444
satcom@andrew.com

International

Telephone: +1-708-873-2307 Fax: +1-708-349-5444

Fax: +1-708-349-5444

Internet: www.andrew.com

All designs, specifications and availabilities of products and services presented in this bulletin are subject to change without notice.

Bulletin PA-100549-EN (6/05)

© 2005 Andrew Corporation, Orland Park, IL 60462 USA