

**PRODUCT
SPECIFICATIONS**

Detail Photos

(on right from top to bottom)

Heavy-duty galvanized Az/El
Mount

Fine azimuth and elevation
adjustments

RF tested C-band Linear
Polarized feed assembly



The two-piece reflector is thermoset-molded for strength and surface accuracy.



2.4 m C-band Linear RxTx Class III Antenna System

TYPE 243

The ASC Signal Type 243 2.4 m Class III RxTx Antenna is a rugged commercial grade product suitable for the most demanding applications. The two-piece reflector is thermoset-molded for strength and surface accuracy. Molded into the rear of each reflector half 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 Az/El mount is constructed from heavy-gauge steel to provide a rigid support to the reflector and feed support arm. Heavy-duty lockdown bolts secure the mount to any 168 mm (6.63") O.D. mast and prevent slippage in high winds. Hot-dip galvanizing is standard on this model for maximum environmental protection.

- All materials comply with EU directive No. 2002/95/EC (RoHS).
- Two-piece precision offset thermoset-molded reflector.
- Heavy-duty galvanized Az/El mount.
- Fine Azimuth and elevation adjustments.
- Galvanized support arm and alignment struts.
- Factory pre-assembled mount.
- Galvanized and stainless hardware for maximum corrosion resistance.
- RF tested feed assembly.
- Heavy-duty Class III mount for 11 kg (25 lb) RF electronics (LNB & BUC).

SPECIFICATIONS

Type 243 2.4 m C-band Linear RxTx Class III Antenna System

RF Performance

		C-band Linear
Effective Aperture	.....	2.4 m (96 in)
Operating Frequency	Tx	5.850 - 6.725 GHz
	Rx	3.400 - 4.200 GHz
Polarization	.....	Linear, Orthogonal
Gain (± 3 dBi)	Tx	42.0 dBi @ 6.1 GHz
	Rx	38.0 dBi @ 3.9 GHz
3 dB Beamwidth	Tx	1.3° @ 6.1 GHz
	Rx	2.1° @ 3.9 GHz
Sidelobe Envelope (Tx, Co-Pol dBi)	2.5° < Θ < 20°	29 - 25 Log Θ
	20° < Θ < 26.3°	-3.5
	26.3° < Θ < 48°	32 - 25 Log Θ
	48° < Θ < 180°	-10
Antenna Cross-Polarization	.....	30 dB (On Axis)
Temperature	10° El	40° K
	20° El	35° K
	30° El	32° K
VSWR	Tx	1.3:1
	Rx	1.5:1
Isolation (Port to Port)	Tx	60 dB
	Rx	60 dB
Feed Interface	Tx	Type N or CPR-137
	Rx	CPR-229

(All specifications typical)

Mechanical Performance

Reflector Material	.....	Glass Fiber Reinforced Polyester
Antenna Optics	.....	Two-Piece Offset Feed Prime Focus
Mount Type	.....	Elevation over Azimuth
Elevation Adjustment Range	.....	10° - 90° Continuous Fine Adjustment
Azimuth Adjustment Range	.....	360° Continuous $\pm 12'$ Fine Adjustment
Mast Pipe Interface	.....	168 mm (6.63 in) Diameter
Wind Loading	Operational	80 km/h (50 mph)
	Survival	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/ft ²
Shock and Vibration	.....	As Encountered During Shipping and Handling



ASC Signal Corporation
1315 Industrial Park Drive
Smithfield, NC 27577
USA

Telephone: +1-919-934-9711

Internet: www.ascsignal.com

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

ASC-VSAT52.1

© 2007 ASC Signal Corporation