PRODUCT SPECIFICATIONS




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

# 2.4 m Receive-Only Antenna System

## TYPE 243

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

The Skyware Global 1.8 m Type 180 Offset 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 its critical parabolic shape.

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.

A specially formulated powder paint process offers excellent protection from weather-related corrosion

- All materials comply with EU directive No. 2002/95/EC (RoHS).
- One-piece thermoset-molded offset reflector.
- Fine azimuth and elevation adjustment.
- Galvanized 19 mm (.75") O.D. feed support legs.
- Factory pre-assembled mount.
- Plated hardware for maximum corrosion resistance.
- Available with C-band or Ku-band feeds.

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# 2.4m Receive Only Antenna System

## RF Performance

| | C-band | Ku-band |
|---|---|---|
| Effective Aperture | 2.4 m (96 in) | 12.4 m (96 in) |
| Operating Frequency | 3.7 - 4.2 GHz | 10.95 - 12.75 GHz |
| Polarization | Linear (Circular Optional) | Linear (Circular Optional) |
| Gain @ 3.95/11.95 GHz | 38.0 dBi | 47.6 dBi |
| 3 dB Beamwidth | 2.1˚ | 0.7˚ |
| Antenna Noise Temperature @ 30˚ Elevation | 36˚ K | 31˚ K |
| VSWR* | 1.4:1 | 1.3:1 |
| Antenna Cross Polarization | 30 dB on Axis (Linear) | 30 dB on Axis (Linear) |
| Feed Interface | CPR-229 | WR75 Flat Flange |

(All specifications typical)

*Function of feed specifications

## Mechanical Performance

| | |
|---|---|
| Reflector Material | Glass Fiber Reinforced Polyester |
| Antenna Optics | One-Piece Offset Feed Prime Focus |
| Mount Type | Elevation over Azimuth |
| Elevation Adjustment Range | 10˚ - 90˚ Continuous Fine Adjustment |
| Azimuth Adjustment Range | 360˚ Continuous ± 12˚ Fine Adjustment |
| Mast Pipe Interface | 168 mm (6.63 in) Diameter |
| Wind Loading | Operational 80 km/h (50 mph)<br>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 |

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