

**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



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



## 1.8 m Receive-Only Antenna System

### TYPE 180

**T**he ASC Signal 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.
- Single bolt fine elevation adjustment.
- Fine azimuth adjustment.
- Galvanized 19 mm (.75") O.D. feed support legs.
- Factory pre-assembled mount.
- Plated hardware for maximum corrosion resistance.
- Hot dip galvanized Az/El mount.
- Available with a wide variety of C-band or Ku-band feeds.

## SPECIFICATIONS

### Type 180 1.8 m Receive Only Antenna System

#### RF Performance

	C-band	Ku-band
Effective Aperture	1.8 m (71 in)	1.8 m (71 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	35.3 dBi	45.5 dBi
3 dB Beamwidth	3.0°	1.0°
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 ±10° Fine Adjustment
Mast Pipe Interface	.....	114 mm (4.50 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 <sup>2</sup>
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](http://www.ascsignal.com)

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

ASC-VSAT21.1

© 2007 ASC Signal Corporation