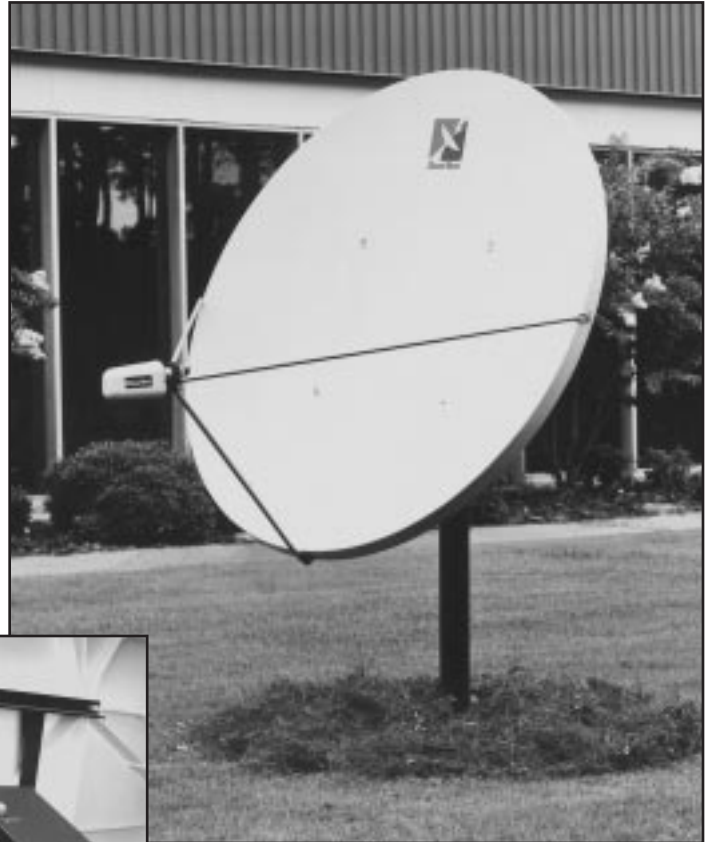


Type 180

1.8m RECEIVE-ONLY OFFSET ANTENNA SYSTEM

FEATURES

- One-piece precision offset compression molded reflector.
- Sturdy AZ/EL mount with elevation scale.
- Single bolt fine elevation adjustment.
- Galvanized .75" O.D. feed support legs.
- Factory pre-assembled mount.
- Cadmium-plated hardware for maximum corrosion resistance.
- Available with a wide variety of C-Band or Ku-Band feeds.



The Channel Master® Type 180 1.8m Offset Antenna is a rugged commercial grade product suitable for the most demanding applications. The reflector is compression-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. Four heavy-duty lockdown bolts secure the mount to any 4.50" O.D. mast and prevent slippage in high winds. A specially-formulated powder paint process offers excellent protection from weather-related corrosion. Hot-dip galvanizing is optional for extreme environmental conditions.

Type 180



1.8m RECEIVE-ONLY OFFSET ANTENNA SYSTEM

Specifications

RF PERFORMANCE

	<u>C-Band</u>	<u>Ku-Band</u>
Effective Aperture	1.8m (71 in.)	1.8m (71 in.)
Operating Frequency	3.7-4.2 GHz	10.95-12.75 GHz
Polarization	Linear (Circular optional)	Linear (Circular optional)
Midband Gain (± 2 dBi)	35.3 dBi	45.5 dBi
3 dB Beamwidth	3.0°	.99°
Antenna Noise Temperature @ 30° EL	30°K	23°K
VSWR	1.3:1 Max.	1.3:1 Max.
Cross-Polarization Discrimination	>30 dB On Axis (Linear)	>30 dB On Axis (Linear)
Feed Interface	CPR-229	WR-75

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°-70° Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous
Mast Pipe Interface	4.50 Inch (114 mm) Diameter
Wind Loading	Operational Survival
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/ft ²
Shock and Vibration	As Encountered During Shipping and Handling



INTERNATIONAL (USA)

1315 Industrial Park Drive, PO Box 1416
Smithfield, North Carolina 27577 USA
Customer Sales Center: (919) 989-2205 • Fax: (919) 989-2200
e-mail: cmvsat@cmnc.com <http://www.channelmasterinc.com>

EUROPE (UK)

Premier Business Park, Croft Head Road
Blackburn, Lancashire England BB1 5UE
Tel. +44(0) 1254 680444 • Fax +44(0) 1254 672299
e-mail: master@cmuk.u-net.com

ASIA-PACIFIC (TAIWAN)

#12 South First Road, KEPZ
Kaohsiung, Taiwan ROC
TEL (07) 831 4151 • FAX (07) 811 3636

12/98 (16613) Rev. D