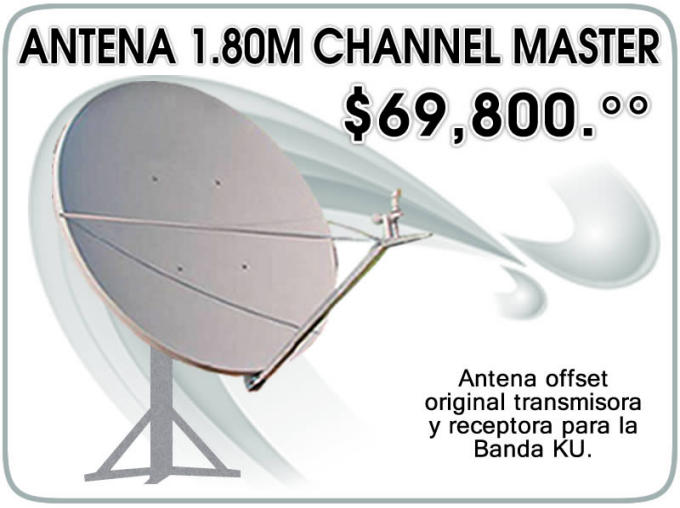


Antena 1.80 Channel Master

Características:

- One-piece precision offset compression molded reflector.
- Heavy-duty galvanized AZ / EL mount.
- Fine azimuth and elevation adjustments.
- Galvanized feed support arm and alignment struts.
- Galvanized and stainless hardware for maximum corrosion resistance.
- Available with a wide variety of C-Band and Ku-Band Rx / Tx feed assemblies and ODU mounting kits.

The Channel Master® Type 183 1.8m Offset Rx / Tx 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 each 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 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 4.50" O.D. mast and prevent slippage in high winds. Hot-dip galvanizing is standard for maximum environmental protection.

RF PERFORMANCE		**C-Band Linear**	**Ku-Band Linear**
Effective Aperture		1.8m (7i in).	1.8m (7i in).
Operating Frequency	Tx Rx	5.850 - 6.725 GHz 3.400 - 4.200 GHz	12.75 - 14.50 GHz 10.70 - 12.75 GHz
Polarización		Linear, Co or Cross - Polarized	Co or Cross - Polarized
Gain (±.3 dBi)	Tx Rx	39.3 dBi @ 6.138 GHz 35.4 dBi @ 3.913 GHz	46.8 dBi @ 14.25 GHz 45.3 dBi @ 11.95 GHz
3 dB Beamwidth	Tx Rx	2.0º @ 6.1 GHZ 3.0º @ 3.9 GHz	.79º @ 14.3 GHz .99º @ 12.0 GHz
Sidelobe Envelope (Tx, Co-Pol dBi) 2ºº 20º 26.3º 48º < (-) < 180º		29-25 Log (-) -3.5 32-25 Log (-) -10 (Typical)	29-25 Log (-) -3.5 32-25 Log (-) -10 (Typical)
Antenna Cross-Polarization		>30 dB (on axis)	>30 dB (on axis)
Antenna Noise Temperature**	10º El	41º k	44º K
(Does not include dissipative losses)	20º El 30º El	36º k 33º K	36º K 33º K
VSWR		1.3:1 Max.	1.3:1 Max.
Isolation, Tx to Rx		60 dB Min.	80 dB Min.
Feed Interface	Tx Rx	Type N or CPR-137 CPR-229	WR-75 WR-75
1 for Ku-Band Envelope			

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° Continuos Fine Adjustment360º
Azimuth Adjustment Range	360° Continuous; ± 20º Fine Adjustment
Mats Pipe Interface	4.50 Inch (114 mm) Diameter
Wind Loading	Operational: 50 Mi/h Survival: 125 Mi/h

Temperature	-50ºC to 80º C
Humidity	0 to 100% (Condensing)
Atmosphere	Salt, Pollutans and Contaminants as Encountered in Coastal and Industrial Areas
Solar Radiation	360 BUT/h/ft²
Shock and Vibration	As Encountered During Shipping and Handling