



Antesky Science Technology Inc.

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9M Large Satellite Dish

Antesky 9.0-Meter C/Ku-band Earth Station Antenna, which uses a shaped parabolic reflector, provides high gain and exceptional pattern characteristics as well as low VSWR. This antenna features advanced dual-reflector technology precision formed aluminum reflector assembly. The main reflector is self-aligning, eliminating the requirement for field alignment, so its electric performance can fully meet the specifications associated with the international standards. Antesky earth station antenna systems are available for a wide range of applications including wireless telecommunication service providers, Internet service provider, system operators and broadcasters throughout the world.



**ELECTRICAL SPECIFICATION**

| | | | | |
|--------------------------------------|------------------|---------------|-------------|------------|
| Diameter | 9.0M | | | |
| Operating Frequency, GHz | C-Band | | Ku-Band | |
| | Receive | Transmit | Receive | Transmit |
| | 3.625~4.2 | 5.85~6.425 | 10.95~12.75 | 13.75~14.5 |
| Gain, Mid-band, dBi | 49.66 | 53.24 | 59.42 | 60.35 |
| -3dB Beam Width | 0.55 | 0.36 | 0.18 | 0.16 |
| Polarization | Linear/ Circular | | Linear | |
| Antenna Noise Temperature, 2/4-port | | | | |
| 10° Elevation | 35K/37K | | 60K/63K | |
| 20° Elevation | 27K/29K | | 50K/53K | |
| 40° Elevation | 24K/26K | | 44K/48K | |
| XPD (on Axis), dB for LP | 35 | 35 | 35 | 35 |
| XPD across 1dB Beam Width, dB for LP | 33 | 33 | 33 | 33 |
| Axial Ratio (dB) for CP 2/4 port | 1.30/1.06 | 1.09/1.06 | | |
| VSWR | 1.25:1 | 1.25:1 | 1.25:1 | 1.25:1 |
| Tx. Power Capability, KW | | 5 | | 2 |
| Feed Interface | CPR-229G | CPR-159G/137G | WR-75 | WR-75 |
| Feed Insertion Loss, dB | 0.25 | 0.2 | 0.25 | 0.25 |
| Isolation, Tx to Rx, dB | 85 | | | |
| Radiation Pattern: First Sidelobe | CCIR.580-4 | | | |

MECHANICAL SPECIFICATION

| | |
|---------------------------|--|
| Antenna Type | Ring Focus Antenna |
| Antenna Pedestal Type | Kingpost Pedestal/Rotation Pedestal |
| Finishes | |
| Reflector Surface | Aluminum panels with high-diffusing white paint |
| Pedestal & Back Structure | Hot dipped Galvanized |
| Surface Accuracy (RMS) | ≤ 0.35mm |
| Azimuth | ingpost pedestal as ± 85° / Rotary pedestal as 0° ~ 360° |
| Elevation | 0° ~ 90° |
| Antenna Drive | Manual or Motorized drive |

ENVIRONMENTAL SPECIFICATION

| | |
|------------------|--------------------------|
| Operational Wind | 72km/h Gusting to 97km/h |
| Survival Wind | 216km/h |



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| | |
|--------------------|---------------------|
| Temperature | - 40°C ~ + 60°C |
| Relative Humidity | 100% |
| Solar Radiation | 1135Kcal/ h/ m2 |
| Seismic (Survival) | 0.3g (H), 0.15g (V) |