

7.3m Earth Station Antenna



SilverSatcom 7.3m antenna exceptional performance makes it an excellent choice for all applications. incorporates stretch - formed doubly contoured panels with matched radials and hub for ease of field alignment provide an accurate surface contour, and extraordinary gain .

The standard designed azimuth over elevation pedestal provides a cost-effective solution for high stiffness and stability, full orbital arc coverage and fine drive performance, and ensures the pointing accuracy.

It is widely and ideally used for Broadcasters, Service Providers, GSM operator, Satellite operator, Military and Government Agencies, FreeLands or Rescue organizations

Features :

- Outstanding RF Performance
- Galvanized stainless steel construction
- Meets CCIR 580 and INTELSAT Requirements
- C,Ku,X,Ka frequencies ranges are available
- CP/LP Switchable feed
- Fixed or motorized option
- Reflector Deicing available

| Electrical Specification | | | | | |
|-------------------------------------|----------------------------------|-----------------------|---------------------------------|-----------------------|------------|
| Type | | SSA73C | | SSA73Ku | |
| 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 | | 47.85 | 51.42 | 57.14 | 58.45 |
| Polarization | | Linear/Circular | | Linear | |
| XPD(on Axis), dB | | 35 | 35 | 35 | 35 |
| XPD across 1dB Beam Width, dB | | 33 | 33 | 33 | 33 |
| Axial Ratio (Circular-Polarized) | 2-Port Feed | 1.30 | 1.09 | | |
| | 4-Port Feed | 1.06 | 1.06 | | |
| VSWR | | 1.25 | 1.25 | 1.25 | 1.25 |
| Antenna Noise Temperature | | 2/4 Port Feed | | 2/4 Port Feed | |
| 10° Elevation | | 35K/49K | | 60K/87K | |
| 30° Elevation | | 26K/43K | | 50K/73K | |
| 50° Elevation | | 24K/35K | | 48K/61K | |
| -3 dB Beam Width, Mid-band | | 0.66° | 0.44° | 0.23° | 0.19° |
| Typical G/T (EL>10° , 2-port) | | 30.2dB/K (30° LNA) | | 36.1dB/K (70° LNA) | |
| Tx. Power Capability, KW | | | 5 | | 2 |
| Feed Interface | | CPR—229F | CPR—137F | WR-75 | WR-75 |
| Feed Insertion Loss, dB | | 0.2/0.25 | 0.2/0.25 | 0.25/0.35 | 0.25/0.4 |
| Isolation, Tx to Rx, dB | | 85 | | 85 | |
| Tx/Tx ,Rx /Rx, Linear , dB | | 30 | | 30 | |
| Tx/Tx ,Rx /Rx, Circular , dB | | 20 | | 20 | |
| Side lobe | | CCIR 580-4 | | | |
| Mechanical Specification | | | | | |
| Antenna Diameter | | | 7.3m | | |
| Antenna Type | | | Ring Focus | | |
| Surface Accuracy(RMS) | | | ≤0.35mm | | |
| Antenna Pointing Range | | Azimuth | ±85° | | |
| | | Elevation | 0°~90°(Continuous) | | |
| | | Polarization | ±90°(Continuous) | | |
| Drive Mode | | | Manual or Motorized | | |
| Motor Drive System | Azimuth or Elevation Travel Rate | | 0.02°/S-0.04°/S | | |
| | Polarization Travel Rate | | 1°/S | | |
| Environmental Specification | | | | | |
| Operational Wind | | | 79km/h gusting to 126km/h | | |
| Survival Wind | | | 198km/h | | |
| Temperature | | | -40°~+60° | | |
| Relative Humidity | | | 100% | | |
| Solar Radiation | | | 1135Kcal/h/m ² | | |
| Seismic(Survival) | | | 0.3g(H), 0.15g(V) | | |
| Ice Loading | | | 13mm Operational; 30mm Survival | | |