



## 5.6 Meter Ka-band Earth Station Antenna

The ASC Signal 5.6 Ka-band earth station antenna features Gregorian optics and a fully shaped main reflector. This configuration provides excellent pattern characteristics, high gain and superior pointing accuracy.

The unique design of the 5.6 meter Ka-band pedestal eliminates the need for critical foundation orientation. Each pedestal is engineered with self aligning bearings of the elevation pivots. In addition, azimuth/elevation anti-backlash ball jacks are incorporated to provide smooth positioning of the antenna. A large equipment enclosure with door is located on the pedestal and allows hub mounting of electronic systems.

The ASC Signal 5.6 meter Ka-band antenna is backed by a three year warranty on all structural components.

- Pedestal mount is designed to allow non-critical foundation orientation.
- Rugged aluminum and steel construction provides high winds survival in any stationary position.
- 3 year structural warranty
- Available with ASC's patented 3-Axis SRT tracking Technology



**Buy Now!**



## SPECIFICATIONS

### 5.6 Meter Ka-band Earth Station Antenna

#### Electrical Performance

|                                                                                                          | Ka-band 4-Port<br>Circular Pol Feed |                   | Ka-band 4-Port Wideband<br>Circular Pol Feed |                   | Ka-band 4-Port<br>Linear Pol Feed |                   | Ka-band 4-Port Linear<br>Pol Feed Eutelsat Frequency |                   |
|----------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------|----------------------------------------------|-------------------|-----------------------------------|-------------------|------------------------------------------------------|-------------------|
|                                                                                                          | Receive                             | Transmit          | Receive                                      | Transmit          | Receive                           | Transmit          | Receive                                              | Transmit          |
| Frequency (GHz)                                                                                          | 20.200-<br>21.200                   | 30.000-<br>31.000 | 18.300-<br>20.200                            | 28.300-<br>30.000 | 17.700-<br>20.200                 | 27.000-<br>30.050 | 21.400-<br>22.000                                    | 27.000-<br>30.050 |
| Antenna Gain at Midband                                                                                  | 59.80 dB                            | 62.60 dB          | 59.20 dB                                     | 62.40 dB          | 59.00 dB                          | 62.20 dB          | 60.20 dB                                             | 62.20 dB          |
| Antenna Noise Temperature ( Midband, Clear Sky Conditions at 68°F (20°C, Water Vapor Density < 7.5 g/m3) |                                     |                   |                                              |                   |                                   |                   |                                                      |                   |
| 10° Elevation                                                                                            |                                     | 160 K             |                                              | 132 K             |                                   | 128 K             |                                                      | 190 K             |
| 30° Elevation                                                                                            |                                     | 126 K             |                                              | 98 K              |                                   | 94 K              |                                                      | 154 K             |
| 50° Elevation                                                                                            |                                     | 108 K             |                                              | 92 K              |                                   | 88 K              |                                                      | 137 K             |
| Cross Polarization<br>On Axis                                                                            | N/A                                 | N/A               | N/A                                          | N/A               | 35 dB                             | 35 dB             | 35 dB                                                | 35 dB             |
| Within 1 dB Beamwidth                                                                                    | N/A                                 | N/A               | N/A                                          | N/A               | 35 dB                             | 35 dB             | 35 dB                                                | 35 dB             |
| Axial Ratio                                                                                              | 0.50 dB                             | 0.50 dB           | 0.50 dB                                      | 0.50 dB           | N/A                               | N/A               | N/A                                                  | N/A               |
| VSWR Performance                                                                                         | 1.30:1                              | 1.30:1            | 1.30:1                                       | 1.30:1            | 1.30:1                            | 1.30:1            | 1.30:1                                               | 1.30:1            |
| Port-to-Port Isolation                                                                                   |                                     |                   |                                              |                   |                                   |                   |                                                      |                   |
| Rx to Rx                                                                                                 |                                     | 18 dB             |                                              | 18 dB             |                                   | 35 dB             |                                                      | 35 dB             |
| Tx to Rx                                                                                                 |                                     | 85 dB             |                                              | 85 dB             |                                   | 85 dB             |                                                      | 85 dB             |
| Tx to Tx                                                                                                 |                                     | 18 dB             |                                              | 18 dB             |                                   | 35 dB             |                                                      | 35 dB             |
| Waveguide Interface Flange                                                                               | WR42                                | WR28              | WR42                                         | WR28              | WR42                              | WR28              | WR42                                                 | WR28              |
| Tx Power Capacity                                                                                        | 500 W/Port                          |                   | 500 W/Port                                   |                   | 500 W/Port                        |                   | 500 W/Port                                           |                   |

#### Mechanical Performance

|                          |                           |                              |  |
|--------------------------|---------------------------|------------------------------|--|
| Optics Type              | Dual Reflector, Gregorian |                              |  |
| Reflector Material       | Precision Formed Aluminum |                              |  |
| Reflector Segments       | 16                        |                              |  |
| Mount Type               | Pedestal Mount            |                              |  |
| Antenna Pointing Range   | Elevation                 | 5° Coarse, 85° Continuous    |  |
|                          | Azimuth                   | 180° Coarse, 120° Continuous |  |
|                          | Polarization              | 180° Coarse, 180° Continuous |  |
| Hub/Enclosure Dimensions | Diameter                  | 1.32 m (52 in)               |  |

#### Environmental Performance

|                            |                                                                     |                                                     |  |
|----------------------------|---------------------------------------------------------------------|-----------------------------------------------------|--|
| Operational Temperature    | -40°C to 50°C (-40°F to 125°F)                                      |                                                     |  |
| Wind Loading (Survival)    | with Motor                                                          | 125 mph (200 km/h) in Stationary Position           |  |
|                            | without Motor                                                       | 125 mph (200 km/h) in Stationary Position           |  |
| Wind Loading (Operational) | with Motor                                                          | 45 mph (72 km/h) with Gusts up to 65 mph (105 km/h) |  |
|                            | without Motor                                                       | 45 mph (72 km/h) with Gusts up to 65 mph (105 km/h) |  |
| Rain                       | 102 mm (4 in per hour)                                              |                                                     |  |
| Relative Humidity          | 100%                                                                |                                                     |  |
| Shock and Vibration        | As Encountered by Commercial Air, Rail and Truck                    |                                                     |  |
| Atmospheric Conditions     | As Encountered by Moderately Corrosive Coastal and Industrial Areas |                                                     |  |