For decades ViaSat has been a leading supplier of high quality tracking antennas to the telemetry users of the world. Using our experience we have refined our products into simple, robust, and technically superior telemetry systems.

The patented ESCAN tracking feed provides low sidelobes, high scanning rates, and superior multi-path resistance. In addition, we also have a high performance C-Band tracking feed which can work alone or in conjunction with the L/S-Band feed.

The series 13000 pedestal features patented bearing technology that combines long trouble free life with ease of service and maintenance. These pedestals are in service around the world, some in extreme harsh environments providing daily service.

The heart of the control system is ViaSat’s 3880 Antenna Control Unit (ACU). The 3880 is ViaSat’s fourth generation ACU and provides unequalled performance for tracking systems. Its ability for control, testing, and mission monitor (track files) is far better than any previous control unit.

Telemetry systems are available in fixed and mobile configurations as well as many size offerings in addition to those listed here.
**SPECIFICATIONS**

**DYNAMICS**

- **Velocity**: 30°/sec (other velocities available, consult factory)
- **Acceleration**: 30°/sec² (other accelerations available, consult factory)
- **Azimuth Travel**: +/- 375°
- **Elevation Travel**: -10° to +110°

**ENVIRONMENTAL**

- **Temperature**: -30° to +55° C
- **Rain**: Up to 5 in per hour
- **Ice**: 0.5 in Radial
- **Wind**: Operate in 45 MPH, Stow in 120 MPH
- **Voltage/Frequency**: 120/208 VAC 50/60 Hz

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1. Above specifications are with one LNA and no Band Pass Filter.

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**STANDARD ANTENNA SIZES**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>2.4m S-Band</th>
<th>2.4m C-Band</th>
<th>3.0m S- and C-Band</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>1435 to 2300 MHz</td>
<td>4.7 to 5.1 GHz</td>
<td>1435 to 2300 MHz⁴</td>
</tr>
<tr>
<td>Feed Type</td>
<td>ESCAN</td>
<td>Single Channel Monopulse</td>
<td>ESCAN</td>
</tr>
<tr>
<td>Gain</td>
<td>31.0 dB @ 2300 MHz</td>
<td>35.9 dBi @ 4.7 GHz</td>
<td>33.0 dB @ 2300 MHz</td>
</tr>
<tr>
<td>HPBW @ 2300 MHz</td>
<td>3.8° nom @ 2300 MHz</td>
<td>1.9° nom @ 4.7 GHz</td>
<td>3.0° nom @ 2300 MHz</td>
</tr>
<tr>
<td>First Side Lobes</td>
<td>18 dB below peak or better</td>
<td>15 dB below peak or better</td>
<td>18 dB below peak or better</td>
</tr>
<tr>
<td>Polarization</td>
<td>LHC &amp; RHC Sim</td>
<td>LHC &amp; RHC Sim</td>
<td>LHC &amp; RHC Sim</td>
</tr>
<tr>
<td>Axial Ratio</td>
<td>2.0 dB Max at beam peak</td>
<td>2.0 dB Max at beam peak</td>
<td>2.0 dB Max at beam peak</td>
</tr>
<tr>
<td>Guaranteed G/T</td>
<td>8.6 dB/K @ 2300 MHz</td>
<td>12.5 dB/K @ 4.7 GHz</td>
<td>10.5 dB/K @ 2300 MHz</td>
</tr>
</tbody>
</table>

**Notes**

1. Wider Frequency coverage available please consult Factory.
2. G/T at 20° Elevation, 23° C, 7.5 gr/m² and under clear sky conditions.
3. Separate Data and Tracking channels and other feed configurations with enhanced G/T performance are available as options.
4. S-band data shown, C-band data available on request.

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**CONTACT**

**SALES**
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