COMTRACK L/S/C
Small Size & High Performance Telemetry Antenna

COMTRACK is the choice of trust, simplicity and performance of more than 100 telemetry tracking operators. Military aircraft testing, helicopters, commercial aircraft and even launch vehicles: COMTRACK is an affordable telemetry reception extension where a roomy and cumbersome parabolic system wouldn’t fit.

With its very compact and environmentally-rugged form-factor, the embedded phase array autotracking antenna offers telemetry reception in L, S or C-band from zenith up to 150 kms range. Its smart integration combining high elevation reception and long range under a single protective radome also enables dual-band mountings for systems having to operate in today’s and tomorrow’s frequencies.

Coming as a single enclosure item, the COMTRACK is a handy transportable antenna, as it may also be easily and seamlessly integrated on any infrastructure.

**L / S / C BANDS**
L, S or C Band, Swappable Mobile Part, Dual Band S+C

**COST-EFFECTIVE**
Simple and robust mechanics provides high performance with limited maintenance

**TRANSORTABLE**
Lightweight (35kg) & Small Size, Easy on-truck setup

**AUTO & SLAVE TRACKING**
High Tracking Accuracy and Long Range Tracking, GPS Tracking made easy

**ENVIRONMENT PROOF**
Full Radome Protection against rain, sand, dust...
**TELEMETRY GROUND SOLUTIONS**

**COMTRACK L/S/C**

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**TRACKING PERFORMANCE**

- **Tracking Accuracy**: +/- 1°
- **Azimuth**: Unlimited, Continuous
- **Azimuth Speed**: > 50°/s
- **Azimuth Acceleration**: > 30°/s²
- **Tracking Modes**: Autotrack, Slave (i.e. GPS), Sector Scan, Full Scan
- **Switch between Directional/Omni**: Manual or Automatic

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**ANTENNA PERFORMANCE**

<table>
<thead>
<tr>
<th>Directional Antenna</th>
<th>L-Band</th>
<th>S-Band</th>
<th>C-Band</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bandwidth</td>
<td>1435-1545 MHz</td>
<td>2180-2480 MHz</td>
<td>4400-5250 MHz</td>
</tr>
<tr>
<td>Gain (typ)</td>
<td>16 dBi</td>
<td>21 dBi</td>
<td>25 dBi</td>
</tr>
<tr>
<td>G/T (typ)</td>
<td>-6 dB/K</td>
<td>-2.5 dB/K</td>
<td>0 dB/K</td>
</tr>
<tr>
<td>Polarization</td>
<td>RHCP + LHCP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beamwidth</td>
<td>AZ15° / EL30°</td>
<td>AZ11° / EL18°</td>
<td>AZ4.5° / EL8°</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acquisition Antenna</th>
<th>L-Band</th>
<th>S-Band</th>
<th>C-Band</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Omni</td>
<td>Omni / Acq panel</td>
<td>Acq panel</td>
</tr>
<tr>
<td>Gain (typ)</td>
<td>1.5 dBi</td>
<td>1.5 dBi / 15 dBi</td>
<td>15 dBi</td>
</tr>
<tr>
<td>Beamwidth</td>
<td>AZ 360° / 25° to Zenith</td>
<td>AZ 360° / 25° to Zenith</td>
<td>AZ27° / EL65°</td>
</tr>
</tbody>
</table>

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**VARIANTS / OPTIONS**

- **Baseline**: L-Band, S-Band, C-Band, S+C Band
- **Cable Set**: Optional 20m / 42m / 65m
- **GUI**: Optional PC with SW installed
- **Mast**: Optional 1.2m fixed mast or 5.5m telescopic mast
- **North Compass**: Optional for mobile applications

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**MONITORING & CONTROL**

- **Local Control**: Control SW running on a laptop
- **User Interface**: Keyboard, mouse, thumb wheel
- **Remote Control**: Same GUI, thru TCP-IP

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**ENVIRONMENT**

- **Dimensions**: 790mm diameter x 635mm height
- **Weight**: < 35 kg (77lbs)
- **Operating Temperature**: -40°C to +50°C with cold start at -35°C
- **Storage Temperature**: -40°C to +71°C
- **Relative Humidity**: MIL-STD-810G method 507.5
- **Environment Protection**: IP63 / CE marking
- **Wind**: Up to 180 km/h
- **Power Supply**: 115V or 230 VAC +/-5%, 50-60 Hz
- **Power Consumption**: Typical 150W, maximum 750W
- **Vibration**: MIL-STD-810G method 514.6
- **Transport Case**: 840 x 840 x 708 mm (33” x 33” x 28”)

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**GLOBAL SALES**

5, Avenue des Andes - CS 90101 - 91978 Courtaboeuf Cedex - FRANCE – Tel.: +33 1 69 82 78 00 - Email: sales.zds@zodiacaeospace.com

USA

3005 Business Park Dr - Norcross, GA 30071 - USA – Tel.: +1 770 753 4017 - Email: sales.zds@zdsus.com

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