ComTrack

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 aircrafts 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.
COMTRACK

**TRACKING PERFORMANCE**

<table>
<thead>
<tr>
<th>Tracking Accuracy</th>
<th>+/- 1°</th>
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</thead>
<tbody>
<tr>
<td>Azimuth Speed</td>
<td>&gt; 50°/s</td>
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<tr>
<td>Azimuth Acceleration</td>
<td>&gt; 30°/s²</td>
</tr>
<tr>
<td>Tracking Modes</td>
<td>Autotrack, Slave (i.e. GPS), Sector Scan, Full Scan</td>
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<tr>
<td>Switch between Directional/Omni</td>
<td>Manual or Automatic</td>
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</tbody>
</table>

**ANTENNA PERFORMANCE**

**Directional Antenna**
- **Bandwidth**: 1435-1545 MHz
- **Gain (typ)**: 16 dBi
- **G/T (typ)**: -6 dB/K
- **Polarization**: RHCP + LHCP
- **Beamwidth**: AZ15° / EL30°

**Acquisition Antenna**
- **Type**: Omni
- **Gain (typ)**: 1,5 dBi
- **Beamwidth**: AZ 360° / 25° to Zenith

**C-Band**
- **Bandwidth**: 4400-5250 MHz
- **Gain (typ)**: 25 dBi
- **G/T (typ)**: -2.5 dB/K
- **Polarization**: RHCP + LHCP
- **Beamwidth**: AZ11° / EL18°

**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")

**VARIANTS / OPTIONS**

- **Baseline**: L-Band, S-Band, C-Band, S+C Band
- **Cable Set**: 20m / 42m / 60m
- **GUI**: Optional PC with SW installed
- **Mast**: Optional 1,2m fixed mast or 5,5m telescopic mast
- **North Compass**: Optional for mobile application

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