GATR 2.4m SATELLITE ANTENNA

CUBIC | GATR has revolutionized the portable SATCOM industry with its patented, inflatable communications terminal.

The GATR’s unique antenna design, an inflatable radome and flexible parabolic reflector mounted at the equator, enables deployment of a 2.4-meter satellite terminal in as few as two airline checkable cases weighing less than 100 lbs. (45.4 kg) each. This reduces pack-out weight and volume by up to 80% compared to deployable rigid antennas, making it ideal for first-in deployments, remote applications and contingency scenarios where transportation and space are limited.

GATR’s 2.4m terminal is currently used by U.S. and foreign militaries, intelligence, and homeland security organizations, as well as commercial and non-governmental organizations at Ku-, C-, and WGS Certified X- and Ka-bands.

Compared to other deployable rigid dishes of comparable size, the GATR’s unique shape and design enable…

**Extreme Portability**
80% less volume and weight vs. portable rigid satellite antennas (2.4m terminal packs in 2 cases, weighing under 100 lbs. each)

**Lower Cost of Ownership**
Drastically reduces shipping expense. Larger dish enables higher bandwidth/lower satellite access cost

**Reliability in Extreme Environments**
Greater stability in high winds (40+ mph). Durable in extreme temperatures. Tested to MIL-STD-810G

**Ease of Set Up**
Can be set up and on satellite in 30 minutes

**Type Designators:** AN/TSC-212 & AN/TSC-233
## GATR 2.4m Antenna System Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>C-band</th>
<th>X-band</th>
<th>Ku-band</th>
<th>Ka-band</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set Up Time</td>
<td>Under 30 minutes on satellite</td>
<td>Under 30 minutes on satellite</td>
<td>Under 30 minutes on satellite</td>
<td>Under 30 minutes on satellite</td>
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<tr>
<td>Size/Weight - Totals</td>
<td></td>
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<tr>
<td>Standard Antenna Case 1</td>
<td>96 lbs. (43.5 kg)</td>
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<tr>
<td>Standard Electronics Case 2</td>
<td>92 lbs. (41.7 kg)</td>
<td>69 lbs. (31.3 kg)</td>
<td>83 lbs. (37.6 kg)</td>
<td>69 lbs. (31.3 kg)</td>
</tr>
</tbody>
</table>

Weights indicate baseline system without spectrum analyzer, UPS, or modem.

### Antenna and RF System

#### Optics
- **Reflector Construction**: Flexible parabolic fabric
- **Az/El/Polar**: Manual point and align

#### Satellites Location Controller
- **GATR 2.4m**: iDirect™ SNR tuning, Satellite acquisition, peaking, and cross pol adjustment using GPS or compass, and level inputs

#### Interface
- **Elevation**: 5 to 90 deg
- **Azimuth**: +/-10 deg of hold-downs
- **Polarization**: Linear/Circular
- **Gain (Mid-band)**: 41.5 dBi
- **Cross-Pol Isolation**: >27 dB
- **Gain**: 43.9 dBi
- **G/T**: 17.3 dB/K @ 20 deg elevation

#### Environmental
- **Temperature**: Operational: -32 to +55°C
- **Wind Load**: Operational: 40 mph (64 kph), Survivable: 60 mph (97 kph) with anchor spikes

#### Power Requirements
- **Power**: 100 - 277V AC
- **Consumption**: Less than 600W

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Visit www.gatr.com, or contact us for demonstration.

GATR 2.4M (2 cases, <200 lbs. total)