Business and general aviation aircraft operators worldwide need an INMARSAT SATCOM antenna system capable of operation with single and multi-channel SATCOM avionics that does not compromise aircraft looks, affect aircraft operational weight and meets the standards of today’s flying executives and VIPs.

EMS Technologies’ AMT-50 High-Gain Satcom antenna is the unparalleled standard in Business Aviation -- enabling not only legacy systems, but the newest High Speed Connectivity needs in mobile computing and communication.

The AMT-50 maintains the smallest footprint of any High-Gain Antenna System in the industry and provides un-compromised performance and full hemispherical coverage. There are no coverage blind spots (keyholes) as found in phase array designs.

The AMT-50 provides the greatest value and performance without the need to penetrate the aircraft pressure vessel or carry additional weight with the resultant fuel burn penalty. EMS brings you the greatest flexibility, highest reliability, and best performance with an antenna that is 74% lighter than even the smallest electronic phased arrays.

**AMT-50 Tail Mounted Installations:**

- Multi-channel operation approved by Inmarsat
- Simultaneous 6 channels voice and 3 channels HSD
- No drag penalty on most aircraft as they come factory installed with radomes at initial delivery
- Demonstrated MTBF exceeds 18,000 Hours
- Installed, approved, and operating on most common airframes
- Lowest shadowing when co-located with Ku band TV antenna
- No space encroachment into cabin = No unsightly bulges in cabin headlines/interior
- No penetration of the pressure vessel
- No need to relocate existing NAV or communications antenna systems to maintain required RF separation as required by RTCA DO-160
- Fully RTCA DO-160 qualified. Qualification packages available
- Multiple STCs
- No antenna ice accumulation or possibility of contributing to engine ice ingestion
- Full lightning strike protection without compromise to performance
- Unparalleled 24/7 customer support, spares pool, AOG support
# AMT-50 Multi-Channel SATCOM Antenna System

## Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>1530 MHz to 1660.5 MHz</td>
</tr>
<tr>
<td>Coverage</td>
<td>seamless hemispherical coverage &gt; 95%</td>
</tr>
<tr>
<td>Gain</td>
<td>12 dBIC</td>
</tr>
<tr>
<td>High Gain Antenna</td>
<td>17.1&quot;L x 13.5&quot;H x 10&quot;W</td>
</tr>
<tr>
<td></td>
<td>5.1 lbs.</td>
</tr>
<tr>
<td>Antenna Driver Assembly</td>
<td>14&quot;L x 2.5&quot;H x 4.6&quot;W</td>
</tr>
<tr>
<td></td>
<td>6.8 lbs.</td>
</tr>
<tr>
<td>Diplexer/LNA</td>
<td>11.1&quot;L x 2&quot;H x 7.8&quot;W</td>
</tr>
<tr>
<td></td>
<td>6.5 lbs.</td>
</tr>
</tbody>
</table>

### Aerodynamics

The radomes which replace the vertical stabilizer caps on the aircraft in service do not affect aircraft performance.

### Installation

The Antenna and Diplexer/LNA are located at the top of the vertical stabilizer with the Antenna Driver Assembly located in any accessible area within 40 feet of the antenna.

### Features

- Multi-channel capability
- Hemispherical coverage (no key holes or gaps)
- Lightweight: 18.4 lbs/8.3 kg total
- No beam switching
- No holes in aircraft fuselage
- Compatible with ARINC 741 AVIONICS
- 28 VDC power

### Installed, Approved and Operating On:

- G-III
- G-IV-GIVSP
- G-V
- CL-600/601
- CL-604
- Global Express
- F-20
- F-50
- F-900
- C-40B
- C-37A
- C-20
- C-130
- F-2000
- Citation X
- Boeing Business Jet

For Price & Availability:

1-800-600-9759 Toll Free (North America)
1-613-727-1034 Tel (Worldwide)