A high gain, electronically steerable, phased-array antenna providing hemispherical coverage in a single, low-profile installation.

- Supports Inmarsat Swift 64, Aero-H and Aero-H+
- Exceeds Inmarsat performance specifications
- Field-proven reliability: MTBFs in excess of 100,000 hours
- Market leader with over 70% marketshare
- Top-mounted antenna with single Beam Steering Unit and Diplexer/LNA

- No coverage blind spots (keyholes)
- True top-mount design virtually eliminates multipath interference
- Conforms to ARINC 741 and Inmarsat SDM

- Only one RF interconnection, for easy installation
- Comprehensive Built-In Test (BIT) with easy to access, front diagnostic BSU port available to maintenance personnel

CMA-2102
Satcom High Gain Antenna System

Esterline

CMC Electronics
CMA-2102 SATCOM HIGH GAIN ANTENNA SYSTEM - SPECIFICATIONS

FREQUENCY
Receive 1525.0 MHz to 1559.0 MHz
Transmit 1626.5 MHz to 1660.5 MHz

SERVICE COVERAGE
Seamless coverage, independent of aircraft direction over more than 90% of the specified Inmarsat hemisphere. No keyholes. Conforms to ARINC 741.

GAIN
Between 12 dBiC and 17 dBiC over 90% of the Inmarsat hemisphere. Minimum 9 dBiC over 100% of the Inmarsat hemisphere.

POLARIZATION PERFORMANCE
Right hand circular. Axial ratio is less than 6.0 dB for all steering angles and all frequencies of operation within coverage region.

MULTIPATH REJECTION
Exceeds 12.9 dB rejection at 5 degrees elevation.

BEAM SWITCHING
50 microseconds maximum.

SATELLITE DISCRIMINATION (SIDELOBE SUPPRESSION)
Exceeds 13 dB over coverage region.

AERODYNAMICS
The radome shape has been chosen to optimize aerodynamic performance. Equivalent fuel burn penalty: 0.04%.

INSTALLATION
Single top-mounted antenna requires only one 1” (25 mm) diameter access hole for RF and power/control cables. Easy connector access via removable panel. Single Beam Steering Unit can be located up to 100 ft. (30 m) remote.

OPTIONS
Adapter plates, connector kits and mounting racks available on request.

UNIT CHARACTERISTICS

<table>
<thead>
<tr>
<th></th>
<th>High Gain Antenna</th>
<th>Beam Steering Unit</th>
<th>Diplexer / LNA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>67” (170.2 cm)</td>
<td>2 MCU</td>
<td>11.05” (28.1 cm)</td>
</tr>
<tr>
<td>Width</td>
<td>18.5” (47 cm)</td>
<td></td>
<td>7.76” (19.7 cm)</td>
</tr>
<tr>
<td>Height</td>
<td>4.75” (12.1 cm)</td>
<td></td>
<td>1.97” (5 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>61.5 lb (27.9 kg)</td>
<td>6.0 lb (2.7 kg)</td>
<td>6.5 lb (3.0 kg)</td>
</tr>
<tr>
<td>Form Factor</td>
<td></td>
<td>ARINC 741 compliant</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>45 Watts maximum</td>
<td>12 Watts maximum</td>
<td>12 Watts maximum</td>
</tr>
</tbody>
</table>

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For information purposes only. To accommodate product improvements, specifications are subject to change without notice.
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