1.2M Tri-Band VSAT

The Hawkeye III Lite from L3 GCS provides high-speed data communications for Internet, VPN connectivity and video transmission.

This light-weight solution can be deployed in a matter of minutes utilizing the auto-acquire antenna system, ViewSat™-e GUI, and the GCS Outdoor Unit (ODU). The modular design of the Hawkeye III series VSATs make it possible for us to offer RF Band kits for quick and easy conversion from one band to another with just a simple feed boom change.

The complete system consists of two or three rugged, hard-sided cases which house the ODU, auto-acquire antenna pedestal, controller, 6-segment carbon fiber circular reflector, boom and feed, and LNB devices for global coverage.

SYSTEM FEATURES

• Modular design allows for easy RF band change
• Light-weight two or three case design (as determined by system configuration)
• Robust auto-acquisition pedestal to support Ku-, X- and Ka-Bands
• Embedded iDirect Evolution® e800 and 900 series modems
• Integrated ViewSat-e web-based GUI and front panel interface
• Common architecture to GCS Hawkeye™ III VSATs for interoperability between systems
• 4 LAN ports or 3 LAN ports plus DSL option
• DVB-S2/ACM capable

APPLICATIONS

• Quick-deploy voice, data, and video
• Military command/control or logistic support communications
• Deployable Homeland Defense or Emergency Response communications
• Worldwide remote Internet/VPN connectivity
• VoIP or Video-Conferencing
1.2M Tri-Band VSAT

**ANTENNA/PEDESTAL**
- **Reflector**: 1.2M parabolic, 6pc., segmented carbon fiber
- **Optics**: Offset, prime focus, 0.6 F/D
- **Acquisition**: Auto
- **Elevation**: +7° to +90°
- **Azimuth**: +90° to -90°

**BAND SUPPORT**
- X-, Ku-, Ka-mil, Ka-wideband, Appendix 30B Ku

**RF PERFORMANCE**

<table>
<thead>
<tr>
<th></th>
<th>X-</th>
<th>Ku-</th>
<th>Ka-mil</th>
<th>Ka-WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmit (GHz)</td>
<td>7.90 to 8.40</td>
<td>13.75 to 14.50</td>
<td>30.0 to 31.0</td>
<td>29.0 to 31.0</td>
</tr>
<tr>
<td>Receive (GHz)</td>
<td>7.25 to 7.75</td>
<td>10.95 to 12.75</td>
<td>20.2 to 21.2</td>
<td>19.2 to 21.2</td>
</tr>
<tr>
<td>EIRP (dBW)</td>
<td>53.9 (40 W)</td>
<td>58.2 (40 W)</td>
<td>60.9 (20 W)</td>
<td>60.6 (20 W)</td>
</tr>
<tr>
<td>G/T (dB/K)</td>
<td>16.3</td>
<td>20.5</td>
<td>23.0</td>
<td>23.0</td>
</tr>
</tbody>
</table>

Appendix 30B Ku performance values available upon request

**MODEM INTEGRATION**
- iDirect e800, iDirect 900, UHP-1100, Comtech DMD1050T

**INTERFACES**
- **# of ports**: 4 LAN or 3 LAN plus DSL option

**POWER**
- **AC**: 90-264VAC; 47-440Hz
- **Consumption**: 626VA

**MECHANICAL**

<table>
<thead>
<tr>
<th></th>
<th>2 case solution</th>
<th>3 case solution</th>
</tr>
</thead>
<tbody>
<tr>
<td># of cases</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>System Weight per case</td>
<td>Case 1: &lt;100 lbs.</td>
<td>Case 1: &lt;70 lbs.</td>
</tr>
<tr>
<td></td>
<td>Case 2: &lt;100 lbs.</td>
<td>Case 2: &lt;70 lbs.</td>
</tr>
<tr>
<td></td>
<td>Case 3: &lt;70 lbs.</td>
<td>Case 3: &lt;70 lbs.</td>
</tr>
<tr>
<td>Case Dimensions</td>
<td>Case 1: 36.8 x 19.5 x 23.3 (inches)</td>
<td>Case 1: 36.8 x 19.5 x 23.3 (inches)</td>
</tr>
<tr>
<td></td>
<td>Case 2: 39.4 x 16 x 23.8 (inches)</td>
<td>Case 2: 39.4 x 16 x 23.8 (inches)</td>
</tr>
<tr>
<td></td>
<td>Case 3: 39.4 x 16 x 23.8 (inches)</td>
<td>Case 3: 39.4 x 16 x 23.8 (inches)</td>
</tr>
</tbody>
</table>

**ENVIRONMENTAL**
- **Temperature**: Operational: -32°C to +55°C
- **Storage**: -46°C to +71°C
- **Wind Loading**: 30 mph, gusting to 45 mph, with anchors

**CERTIFICATIONS**
- MIL-STD-810G, ARSTRAT (X- & Ka-Band), Inmarsat Global Xpress

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