The GCS-4180-VSM is a complete Satcom On-The-Move solution package featuring the FSS-4180-IP antenna and Panther II modem chassis with Vehicular Shock Mount (VSM). The VSM provides power and RF interfaces between the modem chassis and antenna which are integrated into a shock mounted assembly. This allows the modem chassis to be quickly removed from the vehicle and deployed with the Panther II manpack VSAT, enabling Jerk-and-Run capability.

The GCS-4180-VSM supports 2-way VoIP, data, streaming video, as well as tactical military and commercial radio extension over the toughest terrain.

Our team will customize each vehicle or trailer solution to include customer requirements for baseband, modem and power.

**SYSTEM FEATURES**

- Multi-band options (X-, Ku- and Ka-)
- ARSTRAT certified (X-, Ka-)
- Supports X-, Ku- and Ka-Bands
- Jerk-and-Run capability
- Multiple modem platforms
- Integrated ViewSat-e web-based GUI

**APPLICATIONS**

- Command and Control (C2)
- Military command/control or logistic support communications
- Deployable Homeland Defense or Emergency Response communications
- Worldwide remote Internet/VPN connectivity
- VoIP or Video-Conferencing
### ANTENNA/PEDESTAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aperture</td>
<td>18 in. (46 cm)</td>
</tr>
<tr>
<td>Height (radome)</td>
<td>23 in. (58.4 cm)</td>
</tr>
<tr>
<td>Acquisition</td>
<td>Auto (integrated ACU and IMU)</td>
</tr>
<tr>
<td>Elevation</td>
<td>0° to +90°</td>
</tr>
<tr>
<td>Azimuth</td>
<td>360° continuous</td>
</tr>
</tbody>
</table>

### BAND SUPPORT

- X-, Ku-, Ka- mil, Ka- wideband

### RF PERFORMANCE

<table>
<thead>
<tr>
<th>Band</th>
<th>Transmit (GHz)</th>
<th>Receive (GHz)</th>
<th>EIRP (dBW)</th>
<th>G/T (dB/K)</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-</td>
<td>7.90 to 8.40</td>
<td>7.25 to 7.75</td>
<td>40</td>
<td>7.7</td>
</tr>
<tr>
<td>Ku-</td>
<td>13.75 to 14.50</td>
<td>10.95 to 12.75</td>
<td>44.8</td>
<td>12.4</td>
</tr>
<tr>
<td>Ka- mil</td>
<td>30.0 to 31.0</td>
<td>20.2 to 21.2</td>
<td>47.4</td>
<td>12.8</td>
</tr>
<tr>
<td>Ka- WB</td>
<td>29.0 to 31.0</td>
<td>19.2 to 21.2</td>
<td>46</td>
<td>12.0</td>
</tr>
</tbody>
</table>

### MODEM INTEGRATION

- iDirect 950mp, Comtech, NCW

### POWER

- DC 28VDC
- Consumption: 20A Peak, 15A continuous (OTM), 10A continuous (ATH)

### ENVIRONMENTAL

- Temperature:
  - Operational: -32°C to +50°C (includes solar effects)
  - Survival: -40°C to +60°C
- Wind Loading: 100 mph combined (vehicle speed plus wind speed) assuming proper vehicle integration

### QUALIFICATIONS/CERTIFICATIONS

- MIL-STD-810F
- ARSTRAT (X- & Ka-Band planned)

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**This document consists of basic marketing information that is not defined as technical data under EAR Part 772. Data contained within this document is summary in nature and subject to change at any time at L3 Technologies’ discretion.**

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Rev. D