Arming hundreds of mobile missions worldwide, the VMT-1220HM is a complete, self-contained airborne satellite terminal delivering high-speed IP communications-on-the-move. With the VMT-1220HM and ViaSat’s Yonder® mobile broadband service, C-130 operators can send live, full-motion high-definition video over the horizon, make phone calls, conduct video conferences, access classified networks, and perform mission-critical communications while in flight.

For simple installation and rapid integration, the VMT-1220HM features a roll-on/roll-off design. The terminal can be quickly installed into a C-130 escape hatch while retaining use as an emergency exit. The terminal is JITC certified for installation and secure network operation.

Equipped with integrated technologies and robust waveforms, the VMT-1220HM has proven in-theater to deliver streaming data rates up to 4 Mbps with a 12” antenna, upgradable to 10 Mbps. True broadband communications-on-the-move are a reality, and affordable with the VMT-1220HM and the Yonder worldwide network of satellites.

**BROADBAND COMMS-ON-THE-MOVE FOR ANY C-130 MISSION**

» Intelligence, Surveillance, Reconnaissance
» Command, Control, Communications (C3)
» VIP Transport
» Search & Rescue
» Anti-Piracy
» Electronic Warfare
» Telemedicine
» Aerial Refueling

**C-130 MOBILE SATCOM AT-A-GLANCE**

**Secure High-Speed Communications**

» Field-proven 4 Mbps streaming return link (with 12” antenna), upgradable to 10 Mbps
» 10 to 30 Mbps shared forward link
» Protected IP traffic with HAIPE® Type 1 encryption

**FCC/ITU-Compliant**

» Authorized in over 100 countries
» Mitigates adjacent satellite interference with spread spectrum waveforms
» Optimized capacity with closed loop power control and advanced network management

**Flexible Design for Aircraft Requirements**

» Roll-on/roll-off capability for use on different C-130 aircraft
» Installed and ready-to-fly in 20 minutes or less
» Accurate satellite tracking in all mission phases with Inertial Reference Unit (IRU)
» Operates from aircraft or ground power
» Integrated UPS allows seamless transition from aircraft or ground power
» Airworthiness certified by USAF

**Affordable and Scalable Services**

» Ku and Ka satcom operations, including Military and Commercial-Ka
» Standard fixed-price monthly plans
» Worldwide Yonder network with regional and global roaming options
» Private in-theater networks available for specific mission charters
» High-capacity coverage available over key regions including the Middle East, Southwest Asia, Europe, and the U.S.
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Operating Frequency</th>
<th>Ku-Band</th>
<th>Ka-Band (Preliminary)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmit</td>
<td>14.0 – 14.5 GHz</td>
<td>29.5 – 31.0 GHz</td>
</tr>
<tr>
<td>Receive</td>
<td>11.55 – 12.75 GHz (optional 11.45 – 12.65 GHz)</td>
<td>19.7 – 21.2 GHz</td>
</tr>
</tbody>
</table>

**Modulation and FEC**
- **Forward/Return Link**: Network Optimized - Variable Coding, Spreading, and Modulation (VCSM)
- **Spread Forward/Return Link**: Variable to 150
- **FEC**: R = 1/3 Turbo
- **Frequency Reuse**: Paired Carrier Multiple Access (PCMA)

**Transmission Rates**
- **Forward/Return Link**: 128 Kbps to 4 Mbps / 128 Kbps to 10 Mbps

**RF/Tracking Performance**
- **EIRP**: 39.5 dBW minimum / 46.5 dBW minimum
- **G/T**: 9 dB/K minimum / 10.2 dB/K minimum
- **Polarization**: Selectable horizontal/vertical linear polarization / Circular LH & RH
- **Coverage**: Azimuth 360° / Elevation 5° to 85°
- **Tracking Rates**: Azimuth 30°/s / Elevation 20°/s / Polarization 20°/s
- **Tracking Acceleration**: Azimuth 30°/s² / Elevation 30°/s² / Polarization 30°/s²

**Multi-Mission Capable Design**

**BASEBAND INTERFACES**
- **Data**: 10/100BaseT Ethernet
- **Console**: RS-232 and Ethernet (via telnet)

**Other Features**
- **Encryption**: Type 1 HAIPE (KG-250); AES-256 FIPS 140-2 optional
- **Acceleration**: TCP/IP Performance Enhancing Proxy
- **Router**: Cisco Systems 2811 router (red and black)

**Power**
- **Input**: 120V Single Phase AC
- **Operating Temperature**: 47-450Hz, max 950 W

**Environmental and Physical**
- **Operating Temperature**: -55° to 65° C
- **IRU and In-Aircraft Equipment**: 0° to 40° C
- **Weight**: 65.5 lb
- **Weight**: 12 lb
- **Weight**: 199 lb
- **Size**: 24"H x 30° base diameter
- **Size**: 23"W x 20°H x 36°D in

**Contact**

**Sales**
- **Tel**: 888 842 7281
- **Email**: insidesales@viasat.com
- **Web**: www.viasat.com

**United States**
- **Carlsbad, CA and Washington, DC**
- **Tel**: +1 760 476 4755
- **Fax**: +1 760 683 6815
- **Email**: insidesales@viasat.com

**United Kingdom**
- **Wareham, UK**
- **Tel**: +44 0 1929 55 44 00
- **Fax**: +44 0 1929 55 25 25
- **Email**: sales@viasat.uk.com

**Australia**
- **Canberra**
- **Tel**: +61 0 2 61639200
- **Fax**: +61 0 2 61622950
- **Email**: gov.australia@viasat.com

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