Features of Ku-band VSAT system KU-100

- Ku-band maritime VSAT antenna system
- Antenna reflector size: 1 m
- Available in both Cross-pol and Co-pol feeds
- Supports ABS (Auto Beam Switching)
- Supports both iDirect and ViaSat modem interface
- Allows for unlimited connection regardless of file size to be handled and duration of connection at a fixed monthly communication rate
- Internet access as well as checking of email account can be done in the same manner as we do at office or home, thanks to always-on connection to the network—no need for dial-up to secure connection
- By adding a VoIP gateway, pre-paid phones for crew calling as well as IP phones for operational calling can be incorporated onboard the vessels

Equipment List

<table>
<thead>
<tr>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Above Deck Equipment</strong></td>
</tr>
<tr>
<td>Antenna Unit</td>
</tr>
<tr>
<td><strong>Below Deck Equipment</strong></td>
</tr>
<tr>
<td>Antenna Control Unit</td>
</tr>
<tr>
<td>Antenna cable*</td>
</tr>
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<td></td>
</tr>
</tbody>
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<tr>
<th>Above Deck Equipment</th>
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<tr>
<td><strong>Antenna Unit KU-100AT</strong></td>
<td><strong>Antenna Control Unit KU-100AC</strong></td>
</tr>
<tr>
<td><strong>Antenna Diameter</strong></td>
<td><strong>Interface</strong></td>
</tr>
<tr>
<td>Dish size: 1.0 m</td>
<td><strong>Antenna Interface (Power, L-band with control), TRX IF (for Modem), Ethernet, Heading, RS232 (for maintenance)</strong></td>
</tr>
<tr>
<td><strong>Antenna Gain</strong></td>
<td><strong>Power Supply</strong></td>
</tr>
<tr>
<td>TX: 41.8 dBi (14.25 GHz)</td>
<td>100-240 VAC (50, 60 Hz) 300 W</td>
</tr>
<tr>
<td>RX: 40.6 dBi (12.50 GHz)</td>
<td><strong>Environment</strong></td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td><strong>Temperature</strong></td>
</tr>
<tr>
<td>Co-pol and Cross-pol</td>
<td>Operational: -25°C to +55°C</td>
</tr>
<tr>
<td><strong>Transmitting Frequency</strong></td>
<td>Storage: -40°C to +70°C</td>
</tr>
<tr>
<td>14.0-14.5 GHz (Standard)</td>
<td><strong>Relative humidity</strong></td>
</tr>
<tr>
<td>13.75-14.5 GHz (option)*</td>
<td>Up to 93 % at 40°C</td>
</tr>
<tr>
<td><strong>Receiving Frequency</strong></td>
<td><strong>Waterproofing</strong></td>
</tr>
<tr>
<td>10.7-12.75 GHz</td>
<td><strong>IP56</strong></td>
</tr>
<tr>
<td><strong>RF Package</strong></td>
<td><strong>IEC 60945 Ed. 4 2002-08</strong></td>
</tr>
<tr>
<td>TX: 8 W BUC (Block Up Converter)</td>
<td><strong>Shock</strong></td>
</tr>
<tr>
<td>RX: Wideband LNA</td>
<td>IEC 60068-2-27</td>
</tr>
<tr>
<td><strong>GPS Receiver</strong></td>
<td><strong>Vibration</strong></td>
</tr>
<tr>
<td>Incorporated</td>
<td>IEC 60945 Ed. 4 2002-08</td>
</tr>
<tr>
<td><strong>Ship’s Motion</strong></td>
<td><strong>Wind speed</strong></td>
</tr>
<tr>
<td>Roll: ±30°/7 sec</td>
<td>60 m/sec Max.</td>
</tr>
<tr>
<td>Pitch: ±10°/5 sec</td>
<td><strong>Environmental Specifications</strong></td>
</tr>
<tr>
<td>Yaw: ±4°/20 sec</td>
<td>Temperature: Operational: 0°C to +55°C</td>
</tr>
<tr>
<td>Rate of Turn: ±6°/1 sec, 1°/sec²</td>
<td>Storage: -40°C to +70°C</td>
</tr>
</tbody>
</table>

**VSAT System Configuration**

**Antenna Unit**

KU-100AT

- 175 kg 385.9 lb

**Antenna Control Unit**

KU-100AC

- 8 kg 17.64 lb

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