The Tampa Microwave FA130 FlyAway VSAT terminal was developed in collaboration with Harris Corporation. The compact design and packaging facilitates one-man setup and operation, and rapid acquisition of SATCOM services. The X, Ku, and Ka band transceivers, modems and power supply modules can be interchanged (without any tools) among the entire family of terminals with aperture sizes from 45cm to 1.3m. This simplifies sparing and maintenance. It further facilitates multi-band operation with only a small increase in terminal size and weight.

Operating without fans, the terminal is both rugged and quiet. The auto-assist pointing enables fast satellite acquisition by minimally trained personnel.

Key Features:
- **Innovative Design and Packaging** -- 1.3m dual-band terminal in two IATA cases!
- **RF Modem and Power Supply** Modules are common to all TM terminals
- **X- (WGS-certified), Ku-, and Ka-bands**
- **No Fans** -- high reliability design eliminates cooling fans and motors
- **Auto Assist Pointing** -- front panel display instructions for satellite acquisition
- **High Performance** -- low loss
- **One-man setup** in under 10 minutes, without tools, simple frequency/feed swap
- **Superior wind stability** and satellite acquisition performance
- **Interchangeable petals and reflector sizes**
- **Multiple modems available**

Key Discriminators:
- **High Performance**
  Large 1.3 aperture antenna preserves satellite bandwidth and power and eliminates ESD spreading
- **Battery Saving Mode**
  Transmitter Keyline control more than doubles battery operation time
- **Multi-Band**
  Quick change between X, Ku and Ka bands (both commercial and WGS frequencies supported)
- **Simple to Operate**
  Auto-assist display provides “BGAN like” setup (that an unskilled operator can use to point at the satellite)
- **MIL-SPEC Reliability**
  Purpose-built for tactical environment (MIL-STD-810F)
- **Lightweight**
  Monolithic RF design requires no cooling fans resulting in the smallest, lightest, most reliable terminal available
**TM-Seeker Tri-Band FlyAway Terminal**

**System Features**
- Center-fed, 1.3m circular aperture
- Antenna Finish: black or tan
- Azimuth range: ±90°
- Elevation range: 5–85°
- Leveling capability: ±5°
- Power Supply inputs are 85 – 265 VAC, 47-440Hz 10 ~ 36 VDC
- Battery Run-time 100 min using one (1) BB-2590 Greater than 2.5 hours when using keyline feature (Optional BB 2590 battery available)
- RF modules requires no cooling fans providing the smallest, lightest, most reliable terminal available.
- Tan or Grey colors for the transceiver, modem and power supply

<table>
<thead>
<tr>
<th>Parameter</th>
<th>X-Band</th>
<th>Ku-Band</th>
<th>Ka-Band</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rx Frequency Band</td>
<td>7.25 - 7.75 GHz</td>
<td>10.95 - 12.75 GHz</td>
<td>WGS: 20.2 - 21.2 GHz Commercial: 19.2 - 20.2 GHz</td>
</tr>
<tr>
<td>Tx Frequency Band</td>
<td>7.9 - 8.4 GHz</td>
<td>13.75 - 14.5 GHz</td>
<td>WGS: 30.0 - 31.0 GHz Commercial: 29.0 - 30.0 GHz</td>
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<tr>
<td>Polarization</td>
<td>RCP/LCP reversible</td>
<td>Linear V/H adjustment</td>
<td>RCP/LCP reversible</td>
</tr>
<tr>
<td>Tx Axial Ratio</td>
<td>1.22 dB</td>
<td>Cross-pol and co-pol</td>
<td>1.0 dB</td>
</tr>
<tr>
<td>G/T</td>
<td>16.7 dB/K</td>
<td>20.6 dB/K</td>
<td>22.1 dB/K</td>
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<tr>
<td>EIRP (linear)</td>
<td>48.8 dBW</td>
<td>53.7 dBW (P1dB)</td>
<td>57.0 dBW</td>
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<tr>
<td>Compliance</td>
<td>WGS 12-221</td>
<td>FCC, Intelsat, Eutelsat</td>
<td>ARSTRAT</td>
</tr>
</tbody>
</table>

**Environmental**
- Temperature: Operating –20°C to 55°C
- Wind: operating: 25 mph without anchors, 60 mph with anchors
- Transport: Pelican™ Storm Case™ setup and tear-down times: <10 minutes with one man

**Options**
- Alternate higher power amplifiers
- BB-2590 battery recharger
- Acquisition Wizard Modem Module used for external L-Band input; includes internal spectrum analyzer
- Multi-enclave baseband with embedded Cisco™ routing
- Thales PRC-154 radio integration for IP/ Voice gateway operation

**System Parameters/Variants**

**Packaging**
Tampa Microwave FA 130 Seeker comes with two transit cases <70 lbs (<31 Kg) (airline checkable)
- Case 1 (left) has the mount, keel petal and antenna petals.
- Case 2 (right) has the antenna hub, up to two feeds and transceivers, the terminal electronics, and cables.

For more information, please contact: Obie Johnson
+1 813-690-6327
O.Johnson@tampamicrowave.com

12160 Race Track Road
Tampa, FL 33626, USA
www.tampamicrowave.com