Satellite Broadband
Ka-Band Terminals

With ultra-low power and a compact design, ThinWave User Terminals enable capitalizing on the full potential of LEO and MEO satellites.

Key Features
- LEO/MEO/GEO compatible
- Network and modem agnostic
- Industry-leading spectral efficiency
- <170 W peak power
- Lightweight and low wind loading
- Easy and cost-effective installation
- Dual antennas support make-before-break (MBB)
- Single antenna inter-satellite handoff times <1 sec

Applications
- Business enterprise
- Consumer broadband
- Government comms
- Cellular backhaul
- Remote cable and DSL networks
- Wi-Fi hotspots
- IoT/SCADA

www.thinkom.com
Technical Specifications

Integration options and technical enhancements, beyond the standard configurations below, are also available.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Ka1030</th>
<th>Ka1030S</th>
<th>Ka2030</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Band</td>
<td>Ka</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmit (Tx) Band</td>
<td>27.5-31 GHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receive (Rx) Band</td>
<td>17.7-21.2 GHz</td>
<td></td>
<td></td>
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<tr>
<td>G/T</td>
<td>16 dB/K</td>
<td>16 dB/K</td>
<td>19 dB/K</td>
</tr>
<tr>
<td>EIRP (SSPA Psat)</td>
<td>49.5/54.5 dBW (6.3/20 W)</td>
<td>49.5/54.5 dBW (6.3/20 W)</td>
<td>52.5/57.5 dBW (6.3/20 W)</td>
</tr>
<tr>
<td>Polarization Options</td>
<td>Fixed R/L or L/R</td>
<td>Switchable R/L, L/R</td>
<td>Fixed R/L or L/R</td>
</tr>
<tr>
<td>X-Pol/AR</td>
<td>&lt; 2 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tx/Rx Isolation</td>
<td>&gt; 85 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Consumption (Avg.) (6.3 W SSPA)</td>
<td>130 W</td>
<td>150 W</td>
<td>150 W</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40° F to +140° F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40° F to +158° F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>45 lbs.</td>
<td>50 lbs.</td>
<td>70 lbs.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Ø36” x 15”H</td>
<td>Ø36” x 18”H</td>
<td>Ø40” x 25”H</td>
</tr>
<tr>
<td>Parabolic Dish Equivalent</td>
<td>Ø35” x 41”H 132 lbs.</td>
<td>Ø35” x 41”H 132 lbs.</td>
<td>Ø51” x 59”H 286 lbs.</td>
</tr>
</tbody>
</table>

Performance Advantages

Compared with parabolic dishes of comparable performance, ThinWave terminals offer the following advantages:

- Simplified installation results in cost savings
- ACU integrated into terminal; no need for separate ACU installation
- Up to 60% lower profile to avoid “shadowing” and wind loading
- ~60% less power consumption
- Up to ~75% lighter