SPACE

SATCOM ON THE PAUSE

Satellite communications, earth observation, navigation and positioning and control stations

indracompany.com
SATCOM ON THE PAUSE

A rugged and compact satellite terminal for quick to air military communications

Introduction

The SATCOM On The Pause (SOTP) is a highly compact integrated satellite terminal designed for automatic deployment and reliable communications through any of the existing military satellites.

The SOTP terminal is ideal to cover extensive geographical areas or to be used by emergency units which need a fast communication.

This vehicle mounted terminal provides high data rate ‘intra theatre’ communications. SOTP terminal is available in X, Ku and Ka bands.

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Terminal characteristics

<table>
<thead>
<tr>
<th>TECHNICAL (X BAND)</th>
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</thead>
<tbody>
<tr>
<td>Antenna type</td>
</tr>
<tr>
<td>Diameter</td>
</tr>
<tr>
<td>Tx bandwidth</td>
</tr>
<tr>
<td>Rx bandwidth</td>
</tr>
<tr>
<td>EIRP (1.5 m, 80 W)</td>
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<tr>
<td>G/T</td>
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<tr>
<td>M&amp;C</td>
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<tr>
<td>Azimuth adjustment</td>
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<tr>
<td>Elevation adjustment</td>
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<tr>
<td>Polarisation</td>
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<tr>
<td>Side lobe performance</td>
</tr>
</tbody>
</table>

TERMINAL CAPABILITIES

Traffic

Voice, data, videoconference...

Data rate

Up to 2 Mbps

ENVIRONMENTAL

Operating temperature:

Outdoor equipment: -30ºC to +50ºC

Indoor equipment: 0ºC to +50ºC

Wind conditions: Up to 60 km/h

Vibration

MIL-STD-810 E method 514.4

Operation altitude

3000 m

Highlights

• Full 2 axis control, includes 360º azimuth range
• GPS based auto satellite acquisition
• Tracking with beacon receiver
• Configurable for several satellites

• Different modems can be integrated in the SOTP terminal depending on the end user needs
• IP technology
• Up to two links simultaneously
• Flexible and dynamic configuration

Terminal overview

Various antenna sizes and RF powers are available to suit any particular user needs.

The terminal architecture comprises four main subsystems:

• Antenna
• Transmit and receive subsystem
• Baseband
• Monitoring and control subsystem

An advanced and user friendly interface allows monitoring and control of the SOTP terminal by the operator.
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<tr>
<td><strong>Antenna type</strong></td>
<td>Offset fed (prime focus)</td>
</tr>
<tr>
<td><strong>Diameter</strong></td>
<td>1.2 m, 1.5 m and 1.8 m</td>
</tr>
<tr>
<td><strong>Tx bandwidth</strong></td>
<td>7.9 - 8.4 GHz</td>
</tr>
<tr>
<td><strong>Rx bandwidth</strong></td>
<td>7.25 - 7.75 GHz</td>
</tr>
<tr>
<td><strong>EIRP (1.5 m, 80 W)</strong></td>
<td>57 dBW</td>
</tr>
<tr>
<td><strong>G/T</strong></td>
<td>&gt;17 dBK (1.5 m)</td>
</tr>
<tr>
<td><strong>M&amp;C</strong></td>
<td>Local and remote</td>
</tr>
<tr>
<td><strong>Azimuth adjustment</strong></td>
<td>360º</td>
</tr>
<tr>
<td><strong>Elevation adjustment</strong></td>
<td>30º to 90º</td>
</tr>
<tr>
<td><strong>Polarisation</strong></td>
<td>Circular</td>
</tr>
<tr>
<td><strong>Side lobe performance</strong></td>
<td>ST ANAG 4484</td>
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