Rover™ Multi-Band

The Norsat Rover™ Multi-Band is the latest in a series of ultra-portable satellite terminals. Engineered for efficiency, it provides maximum throughput while maintaining a compact design.

The Rover™ Multi-Band uses state of the art assisted-acquire technology, allowing non-technical personnel to set up the system and transmit a signal in just a matter of minutes.

Intelligent

The Norsat Rover™ Multi-Band is equipped with industry leading satellite acquisition technology. The Satellite Acquisition Assistant (SAA) offers ‘built-in intelligence’ and provides highly advanced features in a user-friendly interface. The Rover™ Multi-Band uses an intuitive alignment wizard to guide the operator through the complete satellite acquisition process. Designed with the end user in mind, the Rover™ Multi-Band can be operated by users with minimal training in even the harshest environments.

Flexible

The Norsat Rover™ Multi-Band is a flexible system that can be customized to suit your needs. Each system is equipped with a built-in inclinometer, compass, GPS, spectrum analyzer, configurable indoor unit (with various baseband and modem combinations), and the Norsat LinkControl™ software. The system’s carbon fiber segmented antenna and tripod superstructure is available with multiple SSPA options (2W, 4W, 6W, 8W, 10W, 20W, 40W, 60W), several frequencies (Ku, Ka, X), various packaging choices (Mil. spec backpack, rolling transit case), and many power options (A/C, generator, vehicle, and battery).

Durable

As an assisted-acquire system, the Rover™ Multi-Band uses fewer mechanical components than auto-acquire systems, resulting in a lighter, more economical system with fewer points of diagnostics. The Rover™ Multi-Band is specifically designed to operate in harsh and hostile conditions.Extensively tested to withstand vibrations, shock, and environmental elements, the Rover™ Multi-Band will go anywhere the mission takes you.

Ultra-Portable

- Backpackable
- Airline Checkable
- Quick Assembly without Tools

Intelligent

- Intuitive Interface
- Assisted-Acquire Technology
- Remote Operation

Tough

- Rugged Design
- Shock Protected
- Environmental Controls
## Rover™ Multi-Band

<table>
<thead>
<tr>
<th>System</th>
<th>X-Band</th>
<th>Ku-Band</th>
<th>Ka-Band</th>
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</thead>
<tbody>
<tr>
<td>ERP @ 1 dB C.P.</td>
<td>51.5 dB</td>
<td>58.1 dB</td>
<td>53.5 dB</td>
</tr>
<tr>
<td>G/T</td>
<td>15 dB/K</td>
<td>19.5 dB/K</td>
<td>21 dB/K</td>
</tr>
</tbody>
</table>

### Antenna
- **Antenna**
  - 1.0 m carbon fiber segmented (6 pieces)
- **Tx Gain**
  - 36.5 dBi
- **Rx Gain**
  - 36.0 dBi
- **Polarization**
  - Circular
- **Cross-Pol isolation**
  - RHCP / LHCP or LHCP / RHCP
- **Axial Ratio**
  - < 1.0 dB in Tx Band
- **Elevation Adj.**
  - 10 to 85 degrees
- **Azimuth Adj.**
  - ±170 degrees

### Transmit
- **Transmit Frequency**
  - 7.6 - 8.4 GHz
- **Input Frequency**
  - 950 - 1156 MHz
- **LO Frequency**
  - 0.95 GHz
- **Reference Signal Frequency**
  - External 10 MHz
- **LO Stability Maximum**
  - <10 kHz or ext. ref.
- **Phase noise (SSB maximum)**
  - -95 dBc at 1 kHz
  - -76 dBc at 10 kHz
  - -85 dBc at 100 kHz
- **LO Noise**
  - 0.7 dB

### Receive
- **Receive Frequency**
  - 7.25 - 7.75 GHz
- **LO Stability Maximum**
  - <10 kHz or ext. ref.
- **Phase noise (SSB maximum)**
  - -95 dBc at 1 kHz
- **Output P1dB**
  - -9 dB

### Power Supply
- **Power Supply**
  - Can be supplied with 400, 600, & 1000 W power supply depending on BUC options
- **Prime power**
  - 110 / 220 V AC (50 / 60 Hz)
- **Consumption**
  - Depends on options

### LinkControl Software Interfaces
- **Device**
  - Direct INFINITY Evolution
  - Comtech EF Data
  - Paradigm Datacom
  - MPEG-2 / MPEG-4 & 2164 AVC
  - DVB-S2 Modulator

### Environmental
- **Operating Temp**
  - -30 to +60°C
- **Rainfall**
  - 15 mm/h Operational
  - 30 mm/h Survival
- **Wind Speed**
  - 60 km/h Operational
  - 100 km/h Survival
- **Humidity**
  - 5 - 95% (non-condensing)
- **Altitude**
  - up to 3000 m

### Other System Accessories
- **Onboard Spectrum Analyzer**
  - Received Signal Strength Indicator, DVB Receiver, Compass, Inclinometer, GPS
  - Norsat proprietary LinkControl software with Satellite Almanac, Antenna Alignment Wizard

### Packaging
- **ATA compliant cases**, < 32 kg each
- **Common Case**
  - 25.6 x 19.5 x 15.6 in (651 x 495 x 397 cm)
- **X-Band Case**
  - 25.6 x 19.5 x 15.6 in (651 x 495 x 397 cm)
- **Ku-Band Case**
  - 25.6 x 19.5 x 15.6 in (651 x 495 x 397 cm)
- **Ka-Band Case**
  - 25.6 x 19.5 x 15.6 in (651 x 495 x 397 cm)

### LinkControl 7
- **Wired Display**
  - Military Grade
  - Sunlight Readable

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