



### 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

System	X-Band	Ku-Band	Ka-Band
EIRP @ 1 dB C.P.	51.5 dBW	56.1 dBW	53.5 dBW
G/T	15 dB/K	19.5 dB/K	21 dB/K
Antenna			
Antenna	1.0 m carbon fiber segmented (6 pieces)	1.0 m carbon fiber segmented (6 pieces)	1.0 m carbon fiber segmented (6 pieces)
Tx Gain	36.5 dBi	41.5 dBi	48.0 dBi
Rx Gain	36.0 dBi	40.0 dBi	44.0 dBi
Polarization	Circular	Linear Cross-Pol	Circular
Cross-Pol isolation	RHCP / LHCP or LHCP / RHCP	> 35 dB with 1 dB center	RHCP / LHCP or LHCP / RHCP
Axial Ratio	< 1.0 dB in Tx Band	< 1.0 dB in Tx Band	< 1.0 dB in Tx Band
Elevation Adj.	10 to 85 degrees	10 to 85 degrees	10 to 85 degrees
Azimuth Adj.	±170 degrees	±170 degrees	±170 degrees
Transmit			
Transmit Frequency	7.9 - 8.4 GHz	13.75 GHz - 14.5 GHz	30 - 31 GHz (other bands available)
Input Frequency	950 - 1450 MHz	950 - 1700 MHz	950 - 1450 MHz
LO Frequency	6.95 GHz	12.8 GHz	29.05 GHz
Reference Signal Frequency	external 10 MHz -5 to +5 dBm (supplied by Baseband)	external 10 MHz -5 to +5 dBm (supplied by Baseband)	external 10 MHz -5 to +5 dBm (supplied by Baseband)
Rated Power (1dB C.P.)	40 W (other options available)	40 W (other options available)	4 W (other options available)
Power Control	0.1 dB res, 1 dB accuracy	0.1 dB res, 1 dB accuracy	0.1 dB res, 1 dB accuracy
Max. SSG Variation over any narrow band	±1 dB per 54 MHz	±1 dB per 54 MHz	0.3 dB in 36 MHz band
Spectral Regrowth at rated pwr.	-26 dBc	-26 dBc	-26 dBc
Receive			
Receive Frequency	7.25 - 7.75 GHz	10.95 - 12.75 GHz	20.2 - 21.2 GHz (other bands available)
LNB Noise Figure (typical)	0.7 dB	0.8 dB	1.3 dB
LO Stability Maximum (over temp)	±10 KHz or ext. ref.	±5 KHz or ext. ref.	±40 KHz or ext. ref.
Phase noise (SSB maximum) (SSB maximum)	-72 dBc/Hz at 1 kHz -82 dBc/Hz at 10 kHz -92 dBc/Hz at 100 kHz	-65 dBc/Hz at 1 kHz -75 dBc/Hz at 10 kHz -85 dBc/Hz at 100 kHz	-75 dBc/Hz at 1 kHz -80 dBc/Hz at 10 kHz -100 dBc/Hz at 100 kHz
Output P1dB	10 dBm	7 dBm	3 dBm

## LinkControl Software Interfaces

Device	iDirect iNFINITI/Evolution Comtech EF Data Paradise Datacom MPEG-2/MPEG-4 H.264 AVC DVB-S2 Modulator
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(other applications available)

## Environmental

Operating Temp	-30 to +50°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

## 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	BUC Depends on options

## Satellite Acquisition Assistant (SAA)

Onboard Spectrum Analyzer, Received Signal Strength Indicator, DVB Receiver, Compass, Inclinometer, GPS, Norsat proprietary LinkControl software with Satellite Almanac, Antenna Alignment Wizard



## Packaging

IATA compliant cases, < 32 kg each

Common Case	25.6 x 19.5 x 15.6 in (65.1 x 49.5 x 39.7 cm)
X-Band Case	25.6 x 19.5 x 15.6 in (65.1 x 49.5 x 39.7 cm)
Ku-Band Case	25.6 x 19.5 x 15.6 in (65.1 x 49.5 x 39.7 cm)
Ka-Band Case	25.6 x 19.5 x 15.6 in (65.1 x 49.5 x 39.7 cm)

(other options available)

## Other System Accessories

Wired Display	Military Grade Sunlight Readable
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