



Rover™ Express

The Rover™ Express is the latest in a series of Ultra-Portable satellite terminals. The Rover™ Express was designed in consultation with current users to provide maximum portability without compromising the performance of a full 1-meter terminal.

The Rover™ Express provides:

- Unmatched durability
- Maximum portability
- Fine-tuned capability for HD video streaming
- IP connectivity between remote sites within minutes

Flexible

The Rover™ Express is a highly integrated system that has been fine tuned for Streambox® or other IP based video streaming systems. This system offers a complete solution including a compact, segmented antenna system, 40W SSPA, integrated DMD-1050 modem, comprehensive alignment tools, and a MOLLE frame backpack.

Intelligent

The Rover™ Express is equipped with the LinkControl software which simplifies the antenna alignment process with it's alignment wizard, beacon detector and built-in spectrum analyzer. Operators are provided with a full suite of alignment tools, including a compass, inclinometer, and user-friendly Windows or Mac-based GUI with Assisted Acquire and GPS. The Rover™ Express provides a simple setup and alignment procedure that allows operators with minimal training to quickly establish transmission.

Tough

The Rover™ Express has been extensively tested to withstand vibrations and shocks. It is specifically designed to operate in harsh and hostile conditions.



Ultra-Portable

- Airline Checkable
- Helicopter Friendly
- Quick Assembly without Tools
- Options for RF Power, Voice Comms, Telephony, Encoders

Intelligent

- Assisted-Acquire
- Intuitive Interface
- Remote Operation
- Simple GUI Based Setup and Operation

Tough

- Shock Protected
- Environmental Controls
- Hermetically Sealed Electronics
- Built Rugged for Harsh Environments



Rover™ Express

Antenna

Transmit Frequency	13.75 GHz - 14.5 GHz
Receive Frequency	10.95 GHz - 12.75 GHz
EIRP	56.1 dBW
G/T	19.5 dB/K
Antenna	1m, carbon fiber, segmented (6 pieces)
Antenna Tx Gain	41.7 dBi
Antenna Rx Gain	40 dBi
Polarization	Linear Cross-Pol
Cross-Pol isolation	35 dB with a 0.3 degree boresite

Pointing Tools

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

Transmit

Frequency Range

Output Frequency	13.75 GHz - 14.5 GHz
Input Frequency	950 - 1700 MHz
LO Frequency	12800 MHz
Reference Signal Frequency	external 10 MHz (supplied by Baseband)
10 MHz power level	-5 to +5 dB

Output Power

Rated Power (1 dB C.P.)	40 W
Power Control	0.1 dB res, 0.6 dB accuracy

Gain

Small Signal, typical	70 dB
Maximum SSG Variation Over Any Narrow Band	±1 dB per 54 MHz
Spectral Regrowth at Rated Power	-26 dBc

Receive

LNB Noise Figure (typical)	0.8 dB
L.O. stability maximum (over temperature)	±5 kHz
Phase noise (SSB) maximum	-65 dBc/Hz at 1 kHz -75 dBc/Hz at 10 kHz -85 dBc/Hz at 100 kHz
Input/Output VSWR maximum	2.2 : 1
Conversion gain	55 dB min, 70 dB max
Output P1dB maximum	7 dBm
Power requirements	+15 to +24 V supplied through center conductor of F cable
Current drain maximum	200 mA

Modem

Modem	Integrated DMD 1050
Data Rate	up to 10 Mbps
Modulation	BPSK, QPSK (8PSK option)
FEC	Viterbi 1/2, 3/4, 7/8 TPC 1/2, 3/4, 7/8
Interface	Ethernet 10/100 Base T

Packaging

1 Backpack	26 x 18 x 16"
Optional Transit Cases	32 x 23 x 19"
Weight	Terminal only: 28 kg Terminal in backpack: 37 kg Terminal in Backpack and Transit case: 50 kg

Diagnostics

Closed loop transmit power control, Temperature and current monitoring, Alarms and Warnings logging, Rx signal monitoring via DVB Receiver and Spectrum Analyzer

Power Supply

Prime Power	110/220 VAC 50/60 Hz
Consumption	600 W

Environmental

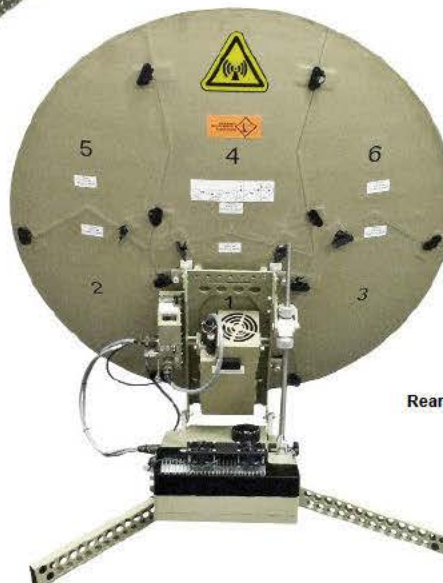
Operating Temp	-30 to +50 °C (Antenna/RF)
Rainfall	15mm/h Operational, 30mm/h Survival
Wind Speed	60km/h Operational, 100km/h Survival
Humidity	5 - 95% non-condensing
Altitude	up to 3000 m

Optional

Rugged Laptop	Panasonic CF19 or equivalent
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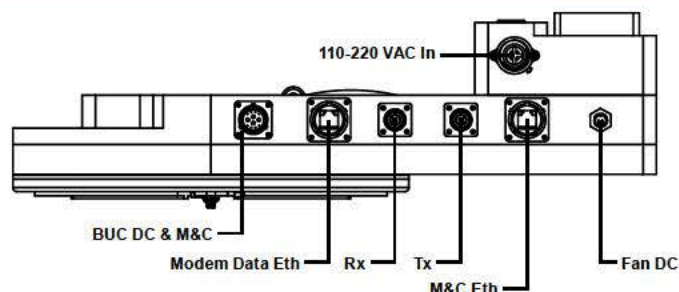


Side View



Rear View

Interfaces



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