

SATTROOPER

Fully Integrated and Lightweight Manpack



ENABLING UBIQUITOUS BROADBAND CONNECTIVITY

The net-centric battlefield has increased the importance of quick-deploy satcom-on-the-pause and on-the-move. Governments and militaries, already attuned to the advantages of fixed and mobile satellite services, recognize the critical need to access these services where and when needed, however challenging the conditions may be.

Wavestream's lightweight, fast-to-deploy SatTrooper manpack tactical satcom terminal enables government agents and warfighters to accomplish their missions, offering rapid connectivity to data, voice and telephony, even under the harshest conditions. The small-size dish antenna can be set up within minutes, with automatic pointing, and does not require any special tools for assembly.

The SatTrooper is available in Ka or Ku band, and can operate as a terminal in a point-to-multipoint network or as a point-to-point link.

PORTABLE, RELIABLE, CAPABLE

SatTrooper is highly integrated and ergonomic and is designed for maximum comfort and resilience. The antenna, built-in modem, BUC and LNB are incorporated in one ruggedized enclosure, and can withstand extreme environmental conditions. Low power consumption enables long hours of battery operation. The whole kit is easily packed into an ergonomic backpack that is easy to carry anywhere.

The SatTrooper embedded Wavestream MLT-1000 modem supports reliable data, voice and video transmissions, with high availability in secure mode and excellent performance in extremely low SNR. The optional remote control unit (RCU) enables operation and configuration from a safe location or shelter.

BENEFITS

- **Fully integrated, compact manpack: antenna, modem, ACU and BUC**
- **Lightweight: only 13.5 Kg**
- **Long-lasting battery operation: more than 4 hours**
- **Automatic pointing**
- **Quick and easy setup: less than 3 minutes**
- **Full Ka or Ku band**
- **Remote control unit: safe operation**



TECHNICAL SPECIFICATIONS

MECHANICAL

Antenna Size:

ST1500Ku: 60cm
ST2000Ka: 60cm

ELECTRICAL

Frequencies Tx**:

ST1500Ku: 13.75-14.5 GHz
ST2000Ka: 29-31 GHz*

Frequencies Rx**:

ST1500Ku: 10.7-12.75 GHz
ST2000Ka: 19.2-21.2 GHz*

Polarization:

ST1500Ku: Linear
ST2000Ka: Circular

Tx Gain:

ST1500Ku: 36 dBi
ST2000Ka: 43.5 dBi

G/T:

ST1500Ku: 14.9 dB/K
ST2000Ka: 17 dB/K

EIRP:

ST1500Ku: 42 dBW
ST2000Ka: 49 dBW

Elevation:

10-75 deg.

Azimuth:

270 deg. continuous
Elevation over Azimuth,
Automatic

Pointing:

Skew/Polarization: Manual

Data rates:

Over 2Mbps
(depends on link budget)

Modulations:

BPSK, QPSK, 8PSK

Spread Spectrum:

Spreading factor 1-16

SNR:

-12 to +13 dB

Coding:

27 LDPC codes. Rates 1/4, 1/3,
2/5, 1/2, 2/3, 3/4, 5/6, 8/9

Typical Eb/No for BER=10-8:

0.8dB (BPSK 1/2 LDPC 12k
block length)

DATA COM & MANAGEMENT

Mode:

Dynamic routing or bridge

Protocols:

TCP acceleration, QoS, VLAN

Management:

Web manager and TotalNMS,
when part of the GLT network

SIZE

Dimensions:

76Lx68Wx80H cm

Weight:

13.5Kg

ENVIRONMENTAL

Temperature:

-20 to +60 deg. C

Wind:

45 Km/h

Environment:

Mil Std 810 G

Electromagnetics:

Mil Std 461 F

POWER AND INTERFACE

Voltage:

10-32 VDC

Consumption:

40 W

Data:

Ethernet 10/100/1000 Base-T

Remote Control Unit (optional):

Mimics the ST front panel: LEDs,
LCD and Control switches

* Other frequencies in Ka band are available upon request

** X-band version is available upon request

ABOUT WAVESTREAM

Wavestream sets the standard in the design and manufacture of next generation high power solid state amplifiers. Wavestream's Family of Ka, Ku and X-band Solid State Power Amplifiers (SSPAs), Block Upconverters (BUCs) and transceivers provide systems integrators with field-proven, high performance solutions designed for ground mobile and fixed, gateway and airborne satellite communication systems worldwide.

These items are subject to the Export Administration Regulations (EAR), 15 C.F.R. Parts 730-774, and may not be exported or transferred to any non-U.S. person, except as authorized by the U. S. Department of Commerce.

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