



The **Norsat® SecureLink™** is the first complete VSAT system to be designed from the ground up to deliver secure broadband data connectivity in a portable, rugged, and easy-to-use package. Only Norsat offers a complete solution - including a carbon fiber segmented antenna, aluminum tripod, 1RU broadband router, network controller, and full Ku-band RF chain with SSPA that packs into just three airline checkable cases.

Norsat is also the first in the industry to incorporate an easy-to-use graphical user interface for antenna alignment, spectrum analyzer, and transmitter and modulator control.

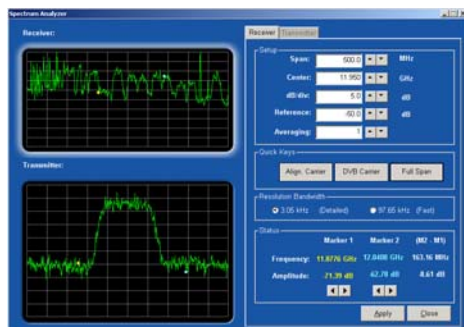


**Versatile Applications** - Ideal for any broadband data transmission application in remote areas

- Military and security field deployments
- Government and industry remote data gathering
- Emergency field communications

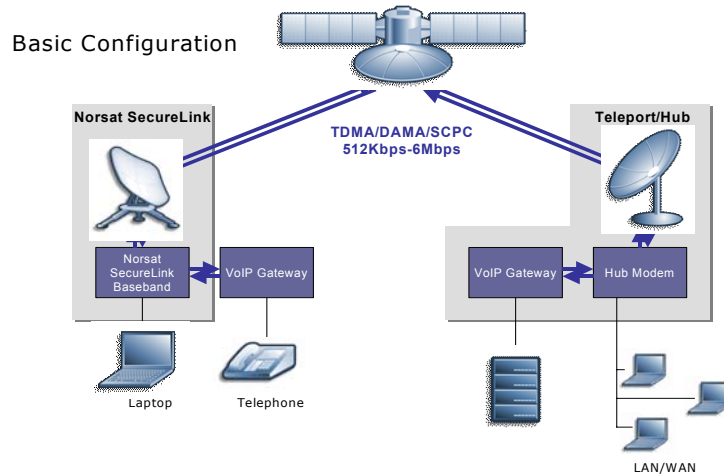
**Flexible Options**

- Encryption Ready – NSA Type 1
- SCPC Data Rates– 512K, 2 or 6 Mbps
- RF Power – 15W / 25W
- Interconnect Cables – 30' / 100'
- Services – VoIP, etc.



- **Highly Capable:** Up to 6Mbps.
- **Highly Portable:** Cases can be easily transported by commercial airline, helicopter, jeep, Hummer, rental car, taxi, pack animal, etc. Entire system weighs less than 60Kg (90Kg with shipping cases).
- **Highly Secure:** Support for Type 1 NSA encryption (i.e. external Taclane KG-175 encryption device).
- **Easy-to-Use:** Setup and operational within 10 minutes. Unique software interface eliminates punching buttons on the front panel of equipment. Bundled tools include built-in spectrum analyzer, beacon/carrier detector. No RF or uplink engineer required.
- **Rugged:** In both transport and deployment. Mil strength components and materials. Robust mechanical engineering.
- **Flexible:** Variety of options to custom tailor the system configuration.
- **Exceptional Value:** Several times less expensive to own and operate than traditional solutions flyaway or Inmarsat solutions.

# Norsat SecureLink Transmission



## RF/Antenna (Outdoor Unit)

Uplink Freq.	Ku-Band 14.0-14.5 GHz
Downlink Freq.	10.95-11.7 GHz 11.7-12.2 GHz 12.25-12.75 GHz
RF Power	15W (Std) 25W (Opt.)
EIRP	(1dB C.P.) 52.5 dBW (15W) 55 dBW (25W)
G/T (clear sky)	21 dB/K
Antenna	1m diamond carbon fiber segmented
Antenna Platform	Aluminum Tripod
Tx Polarization	Vertical or Horizontal
Rx Polarization	Orthogonal to Tx
Elevation	Adj. 0-90 degrees
Azimuth	Adj. 360 degrees
Physical	Assembled: 1x1x1.5m (WxDxH), 40Kg
Approvals	Eutelsat type approval pending

## Baseband Subsystem (Indoor Unit)

Services	TCP/IP Router DHCP Server (Optional) RIPV2 and Static Routing DNS with Local Caching (Optional) Basic Firewall with NAT (Optional)
Data Interface	10/100 Base-T Ethernet
Command Interface	RS-232 Serial Port
Transmit Rates	512Kbps, 2Mbps, or 6Mbps (Optional)
Receive Rates	Up to 9.1 Mbps
Modem Modes	MF- TDMA w/ Dynamic Bandwidth Assignment (Optional) PPiP (SCPC)
FEC	Turbo Code FEC (Rate = 0.793)
RF Interfaces	Tx-Out, Tx-Monitor (L-Band) Rx-In, Rx-Out (L-Band)
Physical	1RU Rack Enclosure 482x44x406mm (WxHxD), 6Kg

## Baseband/RF Interconnect

Cable	Multi-conductor, Flexible L-band (Tx, Tx Monitor, Rx), Control, Power
Physical	10m (30') 3Kg (Std.) 30m (100') 9Kg (Opt.)

## System Control and Software

Software	Master Control Application Satellite Almanac Antenna Alignment Wizard GPS Interface Beacon/Carrier Detector Spectrum Analyzer Pocket Spectrum Analyzer (Opt.) Service Control Application Status, Alarms and Logging Help Files
Operating System	Windows 2000 Professional
Screen	10.4" LCD, sunlight readable display w/transflective technology
Keyboard	100 Key Compact, Sealed
CPU	Intel Mobile Pentium III 700Mhz (Fan less operation) Low power, shock mounted, sealed
Physical	Ruggedized MIL-Spec Laptop
Power	
Prime Power	110/220 VAC 50/60Hz Stable to 90VAC
Optional DC Consumption	12 or 24VDC Inverter (Opt.) 350W Max (15W SSPA) 480W Max (25W SSPA)



Never Beyond Reach.