



Norsat[®] SecureLink[™]

Portable iDirect IP Data Terminal

Ultra-portable. Easy-to-use. Rugged.

The new Norsat SecureLink is the latest in a series of Norsat OmniLink portable satellite terminals. The Norsat SecureLink is a complete Ku-band portable satellite terminal integrating an iDirect NetModem II+ for broadband IP data transmission (from 64 Kbps - 9 Mbps).

The new portable terminal is conveniently packaged into three airline checkable industrial cases. With its simple setup and alignment procedure, staff with minimal training can have the new Norsat SecureLink up and transmitting in just a matter of minutes.

The Norsat Advantage

The Norsat SecureLink is the first complete 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, iDirect modem, laptop controller, system power supply, 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 modem control.

Key Benefits

The Norsat SecureLink is:

Flexible – Uses iDirect NetModem II+ which supports TDMA or SCPC operation

Secure – Supports external encryption devices including NSA Type 1

Portable – transport by vehicle, helicopter, commercial airline, pack animal

Easy-to-Use – Graphical Windows setup and operation that anyone can learn

Rugged – Designed for harsh environments. Field tested in Iraq

Broadband Data – 64 Kbps - 9 Mbps of broadband IP data transmission

Excellent Value – Better value and lower operating costs than Satellite phone based systems

Rapid, Simple, Reliable Alignment, Setup, and Operation

Only the Norsat SecureLink provides a quick assembly antenna platform that can be setup in 5 minutes without tools. It comes complete with a compass, inclinometer, and GPS to aid in alignment. The sophisticated Norsat SecureLink software makes antenna alignment easy for even novice users through its alignment wizard, beacon detector, and built-in spectrum analyzer. To further simplify operation in the field, a full range of settings can be pre-configured in user selectable profiles before the Norsat SecureLink is sent out on an assignment. The Norsat SecureLink is truly changing portable satellite communications by eliminating the need to include an RF engineer on every assignment.

Versatile Applications

Ideal for broadband data transmission applications in remote areas

Military and defense field deployments

Government and industry remote data gathering

Emergency field operations

Telemedicine

Flexible Options

Encryption Ready – NSA Type 1 Support

SCPC Data Rates – Up to 512 Kbps, 2 Mbps or 9 Mbps

RF Power – 4W, 8W, 16W, 25W, 40W

Interconnect Cables – 10m / 30m

Services – VoIP, Video over IP

Tools – Mobile Data Wireless Display



Norsat® SecureLink™

RF/Antenna (ODU)

Uplink Freq.	Ku-Band 14.0-14.5 GHz		
Downlink Freq.	10.95-12.75 GHz		
RF Power	4W (Opt.) 16W (Std)	8W (Opt.) 40W (Opt.)	25W (Opt.)
EIRP (1dB C.P.)	47 dBW (4W) 53 dBW (16W)	50 dBW (8W) 57 dBW (40W)	55 dBW (25W)
G/T (clear sky)	21 dB/K		
Antenna	1m diamond, carbon fiber, segmented		
Antenna Tx Gain	42 dBi		
Antenna Rx Gain	40.5 dBi		
Antenna Platform	Aluminum Tripod		
Polarization	Cross-Pol (Std) / Co-Pol (Opt.)		
Elevation Adj.	10-90 degrees		
Azimuth Adj.	360 degrees		
Physical	Assembled: 1x1x1.5m (WxDxH), 40 Kg		

IDU

Services	TCP/IP Router DHCP Server (Opt.) RIPv2 and Static Routing DNS with Local Caching (Opt.) Basic Firewall with NAT (Opt.)
Data Interface	10/100 Base-T Ethernet x 3
Transmit Rates	Up to 512 Kbps, 2 Mbps, or 9 Mbps (Opt.)
Receive Rates	Up to 9.1 Mbps
Modem Modes	TDMA with Dynamic Bandwidth Assignment PPiP (SCPC)
FEC	Turbo Code FEC (Rate = 0.793, Eb/No = 4.6dB SCPC)
RF Interfaces	Tx-Out, Tx-Monitor (L-Band) Rx-In, Rx-Out (L-Band)
Physical	1RU Rack Enclosure 482 x 44 x 406mm (WxHxD), 6 Kg

IDU/ODU Interconnect

Cable	Multi-conductor, Flexible L-band (Tx, Tx Monitor, Rx), Control, Power
Physical	10m (30'), 3.5 Kg (Std.) 30m (100'), 13 Kg (Opt.)

Certifications

Eutelsat	Antenna type approved (EA-A022)
Intelsat	Approval ready via Eutelsat
FCC ID	Q6C-NSLK3200
FCC Certifications	47 CFR Parts 2 and 25 (Subpart C) Satellite Communications Part 15 (Subpart B) Class A
CE Mark	Yes

System Control and Software

Software	Master Control Application Satellite Almanac Antenna Alignment Wizard GPS Interface Beacon/Carrier Detector Spectrum Analyzer Mobile Data Wireless Display (Opt.) Service Control Application Status, Alarms and Logging Help Files
Operating System	Microsoft® XP Professional
Screen	264mm Touchscreen XGA LCD, TFT sunlight-readable
Keyboard	87 Key Compact, Sealed
CPU	Intel® Pentium® M Processor 900 MHz (Fanless operation) Low power, shock mounted, fully sealed
Physical	Ruggedized MIL-Spec Laptop 1RU 254mm deep rack enclosure 482 x 44 x 254mm (WxHxD) 4 Kg
Mobile Display	Remote system control and monitoring (Opt.) 802.11b Interface

Power

Prime Power	110/220 VAC 50/60Hz Stable to 90VAC
Optional DC Consumption	12 or 24VDC Inverter (Opt.) 350W Max (4W SSPA) 500W Max (8W SSPA) 600W Max (16W SSPA) 625W Max (25W SSPA) 1000W Max (40W SSPA)
Physical	1RU 152mm deep rack enclosure 482 x 44 x 152mm (WxHxD), 4 Kg

Environmental

Operating Temp.	-30 to +50 °C (ODU) 0 to +50 °C (IDU)
Rainfall	15mm/h Operational 30mm/h Survival
Wind Speed	60km/h Operational 100km/h Survival
Humidity	95% non-condensing
Shock/Vibration	MIL-STD-810F (Control System) 1m Drop (ODU)

Shipping/Transport Cases

IDU	Single 3RU custom frame, packaged inside Hardigg case (Electronics, Controller, P/S) 711 x 406 x 660mm (WxHxD), 32 Kg (Other baseband case options available)
4W, 8W, 16W	Two Hardigg roto-molded cases
25W ODU	Each: 711 x 406 x 660mm (WxHxD), 34 Kg each (32Kg for 4W & 8W ODU)
40W ODU	Three Hardigg roto-molded cases, 32 Kg each



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