

Norsat® SecureLink™

Portable Satellite Terminal



Ultra-portable. Easy-to-use. Rugged. Fully Motorized. Auto Acquire.

The 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 a Paradise Datacom Evolution P3000 for broadband IP data transmission (from 9.6 Kbps - 8.448 Mbps; up to 52 Mbps optional)

The new portable terminal is conveniently packaged into three airline checkable industrial cases. With its simple setup and alignment procedure, operators 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, Paradise Datacom Evolution P3000 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, transmitter and modem control.

Key Benefits

The Norsat SecureLink is:

Flexible – Uses Paradise Datacom Evolution P3000 which supports 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 – 9.6 Kbps to 8.448 Mbps broadband IP data transmission

Rapid, Simple, Reliable Alignment, Setup, and Operation

Only the Norsat SecureLink provides a quick assembly antenna platform that can be setup in 10 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 a signals 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– 9.6 Kbps to 8.448 Mbps

RF Power – 40 W

Interconnect Cables – 30'/ 100'

Services – VoIP, Video over IP

Tools – Mobile Data Wireless Display



Norsat® SecureLink™ (3210-40W-P3K)

RF/Antenna (ODU)

Transmit Freq.	14.0-14.5 GHz 13.75 - 14.5 GHz (Optional)
Receive Freq.	10.95-12.75 GHz
RF Power	40 W
EIRP (1dB C.P.)	57 dBW
G/T (clear sky)	20.1 dB/K (NTsky 50K)
Antenna	Effective aperture of 1.2, carbon fiber, segmented
Antenna Optics	Offset, Prime Focus
Antenna Tx Gain	42 dBi
Antenna Rx Gain	40.5 dBi
Antenna Platform	Motorized Elevation over Azimuth on Aluminum Tripod, Auto acquire
Polarization	Linear Cross-Pol
Elevation Adj.	10-90 degrees
Azimuth Adj.	+/- 135 degrees

IDU

Services	TCP/IP Router DHCP Server (Optional) RIPV2 and Static Routing DNS with Local Caching (Optional) Basic Firewall with NAT (Optional)
RF Interfaces	Tx-Out 950-1750 MHz Rx-In 950-1750 MHz Tx-mon 950-1750 MHz
Data Interface	10/100 Base-T Ethernet
Modem Type	Paradise Datacom Evolution P3000
Network Topology	SCPC
Modulation	QPSK, BPSK, OQPSK
Data Rates	9.6 Kbps to 52 Mbps
Error Control	Viterbi FEC, Rates. 1/2, 3/4 and 7/8 with k=7 Intelsat Reed-Solomon Outer Codec per IESS 308 Turbo (Optional)
Physical	20"x11"x26" (WxHxD), 62 lbs

IDU/ODU Interconnect

Cable	3 coaxial cables (Tx, Rx and Tx-monitor) DC Power and MAC cables
Physical	30 feet, 7.7 lbs 100 feet, 28.6 lbs (Optional)

Certifications

Eutelsat	Antenna type approved (EA-A022)
Intelsat	Approval ready via Eutelsat
FCC ID	Yes
FCC Certifications	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 (Optional) Service Control Application Status, Alarms and Logging Help Files
Operating System	Microsoft Windows® XP Professional
Screen	10.4" Touchscreen XGA LCD, TFT sunlight-readable (Optional)
Keyboard	87 Key Compact, Sealed
CPU	Intel® Pentium® M Processor 900 MHz (Fanless operation) (Built In) Low power, shock mounted, fully sealed
Physical	Ruggedized MIL-Spec Laptop 1RU 10" deep rack enclosure 19"x 1.7"x 10" (WxHxD), 8.8 lbs
Mobile Display	Remote system control and monitoring (Optional) 802.11b Interface

Power

Prime Power	110/220 VAC 50/60 Hz Stable to 90 VAC
Optional DC Consumption	12 or 24 VDC Inverter (Optional) 700 W AC Max

Environmental

Operating Temp.	-30 to +50 °C(ODU) 0 to +50 °C (IDU)
Rainfall	4 inches/h
Wind Speed	30 mph gusting to 45 mph
Humidity	100% condensing

Shipping/Transport Cases

IDU	Single 3RU custom frame, packaged inside Hardigg case (BB Unit, Modem, Controller, P/S) Packaged: 28"x16"x26" (WxHxD), 88 lbs
ODU	Three transport cases Case 1- Antenna/ RF Packaged: 28"x16"x26" (WxHxD), 71 lbs Case 2 - Accessory Packaged: 28"x16"x26" (WxHxD), 88 lbs Case 3- Azimuth/Elevation with power supply, 79.5 lbs

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