

Norsat[®] NewsLink[™]

Portable SNG Terminal



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

The new Norsat NewsLink is the latest in a series of Norsat NewsLink portable satellite terminals. The Norsat NewsLink is a complete Ku-band portable satellite terminal capable of broadcast quality MPEG-2 video (up to 10 Mbps).

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

The Norsat Advantage

The Norsat NewsLink is the first complete system to be designed from the ground-up to deliver broadband television broadcasting in a portable, rugged, and easy-to-use package. Only Norsat offers a complete solution including a carbon fiber segmented antenna, aluminum tripod, MPEG-2 encoder, DVB-S modulator, 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 modulator control.

Key Benefits

The Norsat NewsLink is:

Flexible – Options for RF power, voice comms, telephony, encoder options

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

High Quality Video – Up to 10 Mbps of MPEG-2 video/audio

Excellent Value – Better value and lower operating costs than flyaways or video phones

Rapid, Simple, Reliable Alignment, Setup, and Operation

Only the Norsat NewsLink 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 NewsLink 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 NewsLink is sent out on an assignment. The Norsat NewsLink is truly changing portable satellite communications by eliminating the need to include an RF engineer on every assignment.

Versatile Applications

Ideal for broadcast quality video transmission from remote areas

Satellite news gathering

Military and defense field deployments

Emergency field operations

Flexible Options

RF Power – 25W / 40W

Interconnect Cables – 10m / 30m

Video / Audio – Analog / Digital

Services / Modems – Support for Paradise Datacom (Voice, IP, telephony)

Tools – Mobile Data Wireless Display



Norsat® NewsLink™

RF/Antenna (Outdoor Unit)

Uplink Freq.	Ku-Band 14.0 - 14.5 GHz
Downlink Freq.	10.95 - 12.75 GHz
RF Power	25W (Std) / 40W (Opt.)
EIRP (1dB C.P.)	55 dBW (25W) / 57 dBW (40W)
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: 1 x 1 x 1.5m (WxDxH), 40 Kg

IDU

Services	DVB-S Video and Audio transmit and receive
Optional Services	Voice comms, telephony and IP networking (through optional Paradise P310 modem)
Video Standards	NTSC or PAL
Video Encoding	MPEG-2 (ISO/IEC 13818)
Encoder Latency	250 / 80 ms Normal / Low (Opt.)
Video Bit Rates	1.5 - 10 Mbps (inquire about other rates)
Chroma Sampling	4:2:0 / 4:2:2 (Opt.)
Video Inputs	1 x Composite (BNC) 1 x Composite (RCA) 1 x SDI with embedded audio (BNC) (Opt.)
Audio Channels	4
Audio Encoding	MPEG Layer 2
Audio Bit Rates	128 - 384 Kbps
Audio Inputs	4 x Balanced (XLR) 4 x Unbalanced (RCA) 1 x AES/EBU (XLR) (Opt.)
Modem	DVB-S (EN 300421) / QPSK Modulation
FEC	1/2, 2/3, 3/4, 5/6, 7/8
RF Interfaces	Tx-Out, Tx-Monitor-In, Rx-In, Rx-Out (L-Band) Modulator-Out, Upconverter-In (70MHz)
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

(Certifications, continued)

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 and Remote Control (Opt.) Service Control Application Status, Alarms and Logging Help Files
Operating System	Microsoft® XP Professional
Screen	264mm Touchscreen LCD, TFT sunlight readable
Keyboard	87 Key Compact, Sealed
CPU	Intel® Pentium® M Processor 900MHz (Fan-less 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
Power	
Prime Power	110/220 VAC 50/60 Hz Stable to 90 VAC
Optional DC	12 or 24 VDC Inverter (Opt.)
DC Consumption	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)
25W ODU	Two Hardigg roto-molded cases Each: 711 x 406 x 660mm (WxHxD), 34 Kg each
40W ODU	Three Hardigg roto-molded cases Each: 711 x 406 x 660mm (WxHxD), 32 Kg each



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