OMU-800

Ruggedized Outdoor Modem

Norsat's OMU-800 series is an integration of an iDirect Evolution iConnex e800 series modem into a fieldable enclosure. Developed to meet the most rigorous mobility and security requirements, the unit provides fast, reliable quality of service enabled connections for Communications on the Move (COTM). Integrating spread spectrum technology and DVB-S2/ACM, along with advanced FIPS-certified TRANSEC security and advanced QoS functionality; the OMU-800 provides a new level of IP broadband capabilities.

Key Features

The Norsat OMU-800 features:

- Extremely compact and lightweight
- Star and iSCPC topologies supported
- High Carrier data rates up to 149 Mbps downstream, 11.1 Mbps upstream
- Two modes of operation: iNFINITI outbound and DVB-S2/ACM outbound
- Next-generation, extremely efficient 2D 16-State inbound coding
- Spread spectrum waveform technology supports very small antennas and COTM applications
- Unique TRANSEC security with AES 256-bit encryption
- Advanced QoS and traffic prioritization options
- Supports WGS IF ranges: 950-2000 MHz

Norsat Global Customer Support

All Norsat products are supported by our global customer support team, who provide assistance for a range of technical issues. Customer support may include installation, training, trouble-shooting, application support, and 24/7/365 support is available to support mission critical applications.

Headquarters
+ 1 604 821 2800

Toll Free
+1 800 644 4562

Online
sales@norsat.com
www.norsat.com

CONFIGURATION

		Dwnstrm (iNFINITI TDM)	Dwnstrm (DVB-S2/ACM)	Upstream (D-TDMA)
Network Technology	Star and iSCPC			
Modulation		BPSK, QPSK, 8PSK	QPSK, 8PSK, 16APSK	BPSK, QPSK, 8PSK
FEC		TPC, 0.431–0.879	LDPC, 1/4-8/9	TPC, 0.431–0.793 2D 16-State
Maximum Rates	Symbol	15 Msps	45 Msps	7.5 Msps
	Info	21 Mbps	150 Mbps	12.8 Mbps
	Carrier IP Data	20 Mbps	149 Mbps	11.1 Mbps
	Remote IP Data	17 Mbps	38.5 Mbps	11.1 Mbps

Maximum downstream and upstream data rates cannot be achieved simultaneously
Maximum rates are achieved under optimal conditions and with unlimited NMS

Spread Spectrum	Spreading Factor	2, 4 and 8		1, 2 , 4, 8, and 16
	Max Rate (Mcps)	7.5 Mcps		7.5 Mcps

INTERFACES

SatCom Interfaces	TX Out:	Type-F, 950–2000 MHz, Composite Power +7dBm/-35dBm
	RX In:	Type-F, 950–2000 MHz, Composite Power 0dBm/-65dBm
	RX Out:	Type-F, 950–2000 MHz
	Software controllable 10 MHz reference on TX Out and RX In ports 10 MHz BUC/LNB Reference Level: +1 dBm, +/- 3 dB	
Avail. BUC Pwr (IFL)	+24V, 3.5A (Optional +48V, 3.0A supports up to 16W Ku-band or 20W C-band) IFL voltage based on DC input voltage.	
Avail. LNB Pwr (IFL)	+13V, +14V, +15V, +18V, +19V or 20V	
Data Interfaces	LAN: Single 10/100 Ethernet Console: Console connection RS-232: GPS input or Antenna Control Signaling	
Protocol Support	TCP, UDP, ICMP, IGMP, RIP Ver2,Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, OpenAMIP, cRTP and GRE	
Security	AES Link Encryption (256-bit), TRANSEC (iNFINITI mode), FIPS 140 compliant, x.509 digital certificates authentication, Automatic Key Management	
Traffic Engineering	Group QoS, QoS (Priority Queuing and CBWFQ), Strict Priority Queuing, Application Based QoS, Minimum CIR, CIR (Static and Dynamic), Rate Limiting	

ENVIRONMENTAL

Size	W 13.00 in x D 14.12 in x H 1.75”
Weight	9.2 lbs
Operating Temp.	-10° to +55°C (14° to +131°F)
Altitude	Operational: Up to 10,000 feet (3048m); Storage: up to 30,000 feet (9144m)
Relative Humidity	Max 95% non-condensing humidity
Input Voltage	+24V or +48V DC

OPTIONAL ACCESSORIES

Power Supply	150W AC/DC Supply – 24V or 48V
LAN Cable	Weather resistant LAN cable with MIL-C/ snagless boot – 10’, 50’ or 100’ length
Blackout Cover	Black rubber cover for status LEDs
Case	Laptop-style carrying case for single modem and power supply

Norsat International Inc.