

INT2000 Satellite Modem



The INT2000 Satellite Modem offers unprecedented performance, supports a broad array of markets and is fully equipped to operate on HTS satellites.

Offered in a compact, low power consumption desktop modem, perfectly suited to service small and medium enterprises (SMEs), rural cellular deployments and mobility terminals. The modem features high throughput DVB-S2X forward and the most efficient return waveform technology, Mx-DMA MRC.

The INT2000 is also available as a modem board (INT2100), suitable for integration into highly compact COTM terminals for the enterprise and mobility markets.

Markets

Mobility
Enterprise
Cellular Backhaul
SME
Government

Main Features:

- Peak rates up to 300/100Mbps
- Capable for Telco integration (-48VDC) via external DC-DC converters
- Supports low to mid-range BUCs in Ku, Ka and C (up to 12W)
- Advanced security: AES-256 bit encryption, Secure Terminal Authentication
- Support for HTS GEO and MEO satellites
- Embedded GTP acceleration

Mobility support:

- OpenAMIP / OpenBMIP
- AIBS



Network Configuration

Network Topology	Rx		Tx
	DVB-S2X	DVB-S2	Mx-DMA MRC
Modulation	QPSK, 8PSK, 16APSK, 32APSK, 64APSK (Annex M), 128APSK, 256APSK	QPSK, 8PSK, 16APSK, 32APSK	QPSK, 8PSK, 16APSK, 32APSK, 64APSK
Symbol Rates	1 Msps to 500 Msps	1 Msps to 64 Msps	Up to 40 Msps

Modem Interfaces

Tx Interface

Connector	F-Type 75 Ohm
Frequency Range L-band	950-2450 MHz
Tx Level L-band	-55 dBm to 0 dBm
BUC Reference	10/50/OFF MHz
BUC Power Supply	24V or 48V @4A

Rx Interface

Connector	F-Type 75 Ohm
Frequency	950-2150 MHz
LNB Power Supply	0/13/18V, 0.5A
LNB Band Selection	13/18VDC & 0/22 kHz tone
LNB Polarization Selection	13/18VDC & 0/22 kHz & Diseqc 2.X

Data Interface

LAN: Four 10/100/1000 Mbps Ethernet, auto MDI/MDIX

Management

Protocols Supported

UDP, IPv4&IPv6, ICMP, TCP, IGMPv1, IGMPv2, ARP, DHCP, DNS, NTP, BGP, NAT, Diffserv Marking

Multilingual Web GUI

Manage web GUI via configurable management IP address

Mechanical and Environmental

Dimensions:	20.9cm (W) x 16.9cm (D) x 3.7cm (H) 8.23in (W) x 6.65in (D) x 1.46in (H)
Weight:	1.1 kg (2.423 lbs) Enclosure + PCBA
Altitude:	Operating 1830m (6000ft), +50°C Storage ≤ 10,668m (35,000 ft)
Temperature:	Operating 0° to +50°C (32° to +122°F) Storage -40° to +85°C (-40° to +185°F)
Humidity:	Operating 5 - 95% RH, non-condensing Storage 5 - 95% RH, non-condensing

Power Supply

Input Voltage	50Hz\220-260 V, 60Hz\100-130 V 24VDC or 48VDC (external mains adaptor)
Modem Power Consumption	Maximum 25W