

INT2100 Satellite Modem Board



The INT2100 Satellite Modem Board offers unprecedented performance, supports a broad array of markets, and is fully equipped to operate on HTS satellites.

Offered as a compact, low power consumption modem board, perfectly suited for integration into COTM terminals providing service for Small and Medium Enterprises (SMEs), rural cellular and mobility markets. The modem board features high throughput DVB-S2X forward and the most efficient return waveform technology, Mx-DMA MRC.

The INT2100 modem board is also available as a ready-to-deploy, highly compact, low power consumption desktop modem (INT2000), serving the same key 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
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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:	15.6cm (W) x 15.6cm (D) x 1.85cm (H) 6.14in (W) x 6.14in (D) x 0.728in (H)
Weight:	.21 kg (0.4628 lbs) PCB
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
Conformal Coat:	Clear Acrylic Humiseal 1B31

Power Supply

Input Voltage	24VDC or 48VDC (external mains adaptor)
Modem Power Consumption	Maximum 25W

* Environment ratings apply with a conduction-cooled enclosure.