# iQ 200 Board Satellite Modem





The iQ 200 Modem Board is part of ST Engineering iDirect's DVB-S2/S2X modem series with a software-defined architecture for maximum flexibility and expansion. The series is compatible with both Evolution and Velocity, features high performance and efficiency for fixed and mobility networks so you can effortlessly meet demanding service levels and build out large networks with greater speed and reduced costs.

The iQ 200 modem series is ideal for enterprise, cellular backhaul, land mobile and maritime applications combining high-performance iQ series features with mobility. Designed to integrate into complete terminals the iQ 200 Board combines high-performance iQ series features with OpenAMIP mobility. OpenAMIP is an IP based protocol that facilitates the exchange of information between an Antenna Controller Unit and a satellite modem ensuring a seamless integration. The iQ 200 Board enables the service integrator to provide a terminal that can easily scale by adding more inbound throughput capabilities to the modem

The iQ 200 Board is also available in a 1RU rackmount chassis.

#### **Markets**

Maritime

**Enterprise** 

SMF

**Broadband** 

**Land Mobility** 

#### **Main Features:**

- DVB-S2 (up to 45 Msps) / DVB-S2X (up to 119 Msps) outbound
- Supports a full range of DVB-S2X MODCODS up to 256APSK
- Adaptive TDMA up to 15 Msps, 16QAM
- Ideal for both fixed and mobility applications
- Security features with 256-bit AES Link Encryption (optional)
- 10 and 50 MHz reference for BUC compatibility
- OpenAMIP compatibility for ease of integration
- · Layer 2 and Layer 3 optimized











### **Network Configuration**

Network Topology	Rx		Tx
	DVB-S2X*/ACM	DVB-S2*/ACM	Adaptive TDMA
Modulation	QPSK, 8PSK, 16APSK, 32APSK, 64APSK, 128APSK, 256 APSK	QPSK, 8PSK, 16APSK, 32APSK	SS-BPSK, BPSK, QPSK, 8PSK, 16QAM*
FEC	Refer to the LBA guide	LDPC 1/4 - 8/9	2D 16-State 1/2 - 6/7
Symbol Rates	5 Msps to 119 Msps	1 Msps to 45 Msps	128 ksps to 15 Msps*
Spread Spectrum*			SF: 2,4,8; Up to 7.5 Mcps

### **Modem Interfaces**

#### Tx Interface

#### **Rx Interface**

Connector	F-Type 75 Ohm
Frequency	950-2150 MHz
LNB power supply	13 & 18VDC @ 0.5A @ connector Rx in
LNR LO selection	22 kHz on/off

#### **Data/Management Interface**

LAN: Two 10/100/1000 Mbps Ethernet

RJ-45: console

Please note that the integrator is responsible for all certs. at the terminal level.

## Management

#### **Protocols Supported**

TCP, UDP, ICMP, DHCP, NAT/PAT, DNS, ROHCv2, RIPv2, IGMPv2, IGMPv3, ICMP, IPv4 (IPv6 over L2oS), L3, VRRP, BGP

256-bit AES Link Encryption (optional)

### **Mechanical and Environmental**

Size	W 13.7 cm x D 10.5 cm x H 1.8 cm (W 5.41 in x D 4.13 in x H 0.71 in)	
Weight	0.14 kg (0.3 lbs)	
Refer to integration guide for thermal design guidelines		

### **Power Supply**

24V +/- 5% Input Voltage Power Consumption ~15 Watts





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<sup>\*</sup> Feature is release and platform dependent