

iQ 200 Integrated Board



The iQ 200 Board is iDirect's next-generation DVB-S2*/DVB-S2X* integrated board with Adaptive TDMA returns. Designed to integrate into complete terminals serving small to medium enterprise and maritime applications, the iQ 200 Board combines high-performance iQ series features with mobility and is compatible on both Evolution® and iDirect Velocity®.

Network Configuration

Network Topology	DVB-S2* and DVB-S2X* with Adaptive TDMA Returns		
	Downstream		Upstream
	DVB-S2X*/ACM	DVB-S2*/ACM	Adaptive TDMA
Modulation	QPSK, 8PSK, 16APSK, 32APSK, 64APSK, 128APSK, 256APSK	QPSK, 8PSK, 16APSK, 32APSK	BPSK, QPSK, 8PSK, 16QAM*
Symbol Rates	5 to 100 Msps	1 to 45 Msps	128 ksps to 15 Msps*

Interfaces

SatCom Interfaces	Tx: L-band/F-Type, 950-2400 MHz, 75Ω Rx: L-band/F-Type, 950-2150MHz, 75 Ω RF Power Transmit: Pmax of +0 dBm to Pmin of -35 dBm RF Power Receive: Max composite wide band receive level: a) -5 dBm for symbol rates ≤ 45 Msps b) 10 dB above wanted signal power level for symbol rates > 45 Msps Minimum Receive Level: $-115+10*\log(F_{sym}(sps))$ single carrier
Available BUC Power (IFL)	+24V, 2.0A** max available @ connector Tx Out
Available LNB Power (IFL)	13, 18, 21V @ 0.5A**, 22kHz tone @ connector Rx in
Data Interfaces	LAN: Two 10/100/1000 Mbps Ethernet
I/O	RJ45 console
Protocols Supported	TCP, UDP, ICMP, DHCP, NAT/PAT, DNS, ROHCv2, RIPv2, IGMPv2, IGMPv3, ICMP, IPv4 (IPv6 over L2oS), L3
Traffic Engineering	QoS, CIR (Static and Dynamic)
Licensable Features	Inbound throughput, 256-bit AES Encryption*, OpenAMIP*

Mechanical/Environmental

Size	W 137.6 mm (5.41 in) x H 104.9 mm (4.13 in) x D 18.1mm (0.71 in)
Weight	0.14kg (0.3 lbs)
Temperature	Refer to integration guide for thermal design guidelines
Input Voltage	24V +/-5%
Power Consumption	~15 Watts

* Feature is release and platform dependent

** Combined Tx and Rx power not to exceed 50W

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