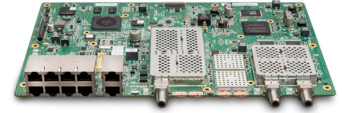


CX700 Integrated Board



The iDirect CX700 is a board level next-generation satellite router designed to easily integrate into a mobile, COTP and fixed VSAT terminals. The unit is ideal for mobile and fixed enterprise-class applications and supports DVB-S2/ACM on the outbound and ATDMA on the inbound. The board has an embedded 8-port switch, a second DVB-S2 demodulator* and is compatible with both Evolution and Velocity systems.

Network Configuration

Network Topology	Star	
	Downstream: DVB-S2	Upstream: Adaptive TDMA
Modulation	QPSK, 8PSK, 16APSK, 32APSK	BPSK, QPSK, 8PSK
FEC	LDPC, 1/4 - 8/9	2D 16-State, 1/2 - 6/7
Max. Symbol Rate	1 - 45 Msps	128 ksps - 7.5 Msps
Max. Info Rate	149.7 Mbps	19.2 Mbps
Max. IP Data Rate	59.2 Mbps	16 Mbps
Spread Spectrum (Max Rate Mcps)		Up to 7.5 Mcps* Spreading Factors: 2, 4, 8

Max rates are achieved under optimal conditions.

Interfaces

SatCom Interfaces	TxIF: Type-F, 950 - 1950 MHz, +5dBm / -35dBm Rx1/Rx2* IF: Type-F, 950-2150MHz, -5dBm (max) composite/-130+10*Log10(Sym rate) dBm (min) single carrier 10MHz/50MHz IFL BUC reference
Data Interfaces	LAN: 8-port ethernet switch, 10/100, 802.1q VLAN RS-232:RJ45 (Console connection) RS-422:RJ45 BUC I/O port*
Protocols Supported	TCP, UDP, ACL, ICMP, IGMP, RIP Ver2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, OpenAMIP, cRTP and GRE
Security	AES Link Encryption (256-bit) (optional)
Traffic Engineering	Group QoS, QoS (Priority Queuing and CBWFQ), Strict Priority Queuing, Application Based QoS, Minimum CIR, CIR (Static and Dynamic), Rate Limiting
Other Features	Transmit Key Line*

Mechanical/ Environmental

Size	L 11" (27.9 cm) x W 7.2" (18.3 cm) x H 1.067" (2.7 cm) PCBA dimensions only
Weight	1 lbs (0.45 kg)
Operating Temperature	<i>Please refer to the thermal requirements guidelines in the CX700 Integration Guide.</i>
Humidity	90% non-condensing humidity (operational & storage)
Input Voltage	+24VDC
Power Consumption	<35W max, 25W typical
Certifications	Designed to meet required ETSI, EN/IEC, FCC, UL/CSA Safety, and CE Compliance Standards with appropriate enclosure and power supply design. RoHS compliant

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

For more details please refer to the CX700 Integration Guide.

* Feature/license availability is release dependent.