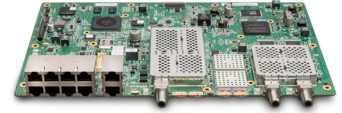


CX700 Integrated Board



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 Reference Clock Out: 10/50 MHz, +/-10 ppm stability, 0 dBm -3/+4 dB power
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 <i>Please note that the integrator is responsible for all certifications at the terminal level.</i>

For more details please refer to the CX700 Integration Guide.

* Feature/license availability is release dependent.