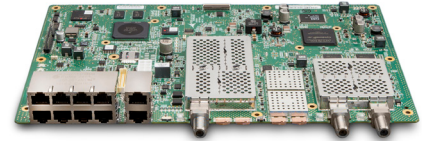


CX700 Satellite Modem Board



ST Engineering iDirect's X-Series modems support DVB-S2/ACM and Adaptive TDMA and are designed for broadband fixed and mobility applications. The X-Series provides performance, efficiency and security in a variety of form factors for reliable IP-based satellite communications.

The CX700 Modem Board enables integrators to easily integrate robust capabilities into fixed or mobile terminals to deliver the data rates needed for bandwidth-heavy business applications and multicast services like IP TV, HD broadcast, and video. The CX700 features dual DVB-S2 demodulators with fully independent RF chains and an 8-port embedded switch for managing multiple user groups. This allows for a range of enterprise voice and data services while simultaneously receiving multicast channels over the same or a second transponder or satellite. The CX700 is supported on both the iDirect Evolution® and Velocity® product lines.

The CX700 is also available in a rackmount form factor. The X7 Modem features a rackmount enclosure with variant power supply options.

Markets

Enterprise
Offshore and Maritime
Cellular Backhaul
Government

Main Features:

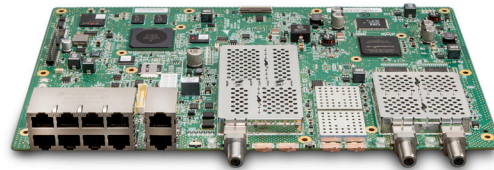
- DVB-S2 up to 45 Msps
- Adaptive TDMA up to 7.5 Msps
- Dual demodulators
- Embedded 8-port switch
- 256-bit AES Link Encryption (optional)

VELOCITY

EVOLUTION

powered by

Newtec  iDIRECT



Network Configuration

Network Topology	Rx1 and Rx2	Tx
	DVB-S2	Adaptive TDMA
Modulation	QPSK, 8PSK, 16APSK, 32APSK	BPSK, QPSK, 8PSK
FEC Rates	LDPC, 1/4 - 8/9	2D 16-State, 1/2 - 6/7
Symbol Rates	1 - 45 Msps	128 ksps - 7.5 Msps
Spread Spectrum		SF: 2, 4, 8; Up to 7.5 Mcps

Modem Interfaces

Tx Interface

Connector	Type-F, Composite Power
Frequency range L-band	950 - 1950 MHz
TX level	+5dBm / -35dBm
BUC reference	10/50 MHz

Rx1/Rx2 Interfaces

Connector	Type-F, -5dBm (max) composite / -130+10*Log10(Sym rate) dBm (min) single carrier
Frequency	950 - 2150 MHz

Data Interface

LAN: 8-port ethernet switch, 10/100, 802.1q VLAN
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Management Interface

RS-232: RJ45 (Console connection), RS-422: RJ45 BUC I/O port*

Management

Protocols Supported

TCP, UDP, ACL, ICMP, IGMP, RIP Ver2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, OpenAMIP, cRTP and GRE

Security

256-bit AES Link Encryption (optional)

Mechanical and Environmental

Size	L 27.9 cm (11 in) x W 18.3 cm (7.2 in) x H 2.7 cm (1.067 in) PCBA dimensions only
Weight	0.45 kg (1 lbs)
Operating Temperature	Please refer to the thermal requirements guidelines in the CX700 Integration Guide
Humidity	90% non-condensing humidity

Power Supply

Input Voltage	+24VDC
Power Consumption	<35W max, 25W typical

For more details please refer to the CX700 Integration Guide.

* Feature is release dependent.