## 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<br>Rx1/Rx2* IF: Type-F, 950-2150MHz, -5dBm (max) composite/-130+10*Log10(Sym rate) dBm (min) single carrier<br>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<br>RS-232:RJ45 (Console connection)<br>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 | *Please refer to the thermal requirements guidelines in the CX700 Integration Guide.* |
| 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.<br>RoHS compliant<br><br>*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.*

**VT iDirect, Inc.** • 13861 Sunrise Valley Drive, Herndon, VA 20171 • Tel: +1 703.648.8000 +1 866.345.0983 • www.idirect.net

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