

ULC-T Line Card



The universal transmit line card, ULC-T, features DVB-S2 up to 54MHz or DVB-S2X up to 125MHz carrier bandwidth with Adaptive Coding and Modulation (ACM) on the outbound channel. In conjunction with a multi-channel demodulator line card (e.g. ULC-R), the ULC-T is ideally suited for broadband applications such as Internet and VPN access to enterprise networks, along with real-time VoIP and videoconferencing on both the iDirect Evolution® and Velocity™ platforms.

Network Configuration

Network Technology	DVB-S2, DVB-S2X
Modem	One Modulator (Transmit one downstream carrier)
Modulation/FEC	DVB-S2: QPSK, 8PSK, 16APSK, 32APSK; LDPC 1/4 - 8/9 DVB-S2X: QPSK, 8PSK, 16APSK, 32APSK, 64APSK, 128APSK, 256APSK; LDPC 9/20 - 3/4
Symbol Rate	DVB-S2: Up to 45 Msps DVB-S2X: Up to 119 Msps
Interoperability	Compatible with Series 15100 Universal Hub (5IF/20 Slot) DVB-S2 requires Evolution 3.4 / Velocity 1.1 software or above DVB-S2X requires Evolution 4.1 or above

Interfaces

SatCom Interfaces	TxIF: Type-F, 950–2000 MHz, +5/-35 dBm power
Data Interfaces	GigE LAN A: Data & Control; GigE LAN B: Data & Control. Link Aggregation. Console: RS232 over RJ-45
Timing Interface	Locked to customer supplied PPS/10 MHz through backplane
Other Features	Linear pre-distortion

Mechanical/Environmental

Redundancy	Software controlled, hot-swappable, and auto-failover
Weight	0.83 kg (1.48 lbs)
Operating Temperature	0° to +45°C (+32° to +113°F), 0–95% non condensing
Input Voltage	24V; 65W (max)
Certifications (System Level)	FCC, CE, and RoHS Compliant

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