

DLC-T Line Card



The Defense Transmit Line Card (DLC-T) is suited for supporting secure voice, data, and video communication links for mission-critical military and COTM broadband applications. It provides 125 MHz analog passband capability across the TxIF L-band spectrum and features DVB-S2 Adaptive Coding and Modulation (ACM) on the outbound channel. The DLC-T provides FIPS 140-2 Level 3 security with the introduction of an on-board TRANSEC module. The DLC-T is compatible with series 15100 and 12200 hub chassis models and synchronized in timing/frequency to PPS/10 Mhz references distributed across the backplane. The specifications below represent the full capability of the DLC-T. Actual performance is based upon the software release deployed.

Network Configuration

Network Technology	DVB-S2 , DVB-S2X
Modem	One Modulator (Transmit one downstream carrier)
Modulation	QPSK, 8PSK, 16APSK, 32APSK
FEC	LDPC 1/4 - 8/9
Symbol Rate	Up to 45 Msps
Maximum Info Rate	150 Mbps*
Maximum IP Data Rate	149 Mbps* (16APSK, 8/9 FEC)
Interoperability	Compatible with Series 15100 Universal Hub (5IF/20Slot) and Series 12200 Universal Hub (4-Slot) Co-exist with eMxDx series Transmit/Receive line cards Requires Evolution 3.4 software or above

Interfaces

SatCom Interfaces	Tx: Type-F, 950–2000 MHz, +5/-35 dBm power
Data Interfaces	LAN: 2 GigE ports Console: RS232 over RJ-45
Timing Interface	Locked to customer supplied PPS/10 MHz through backplane
Other Features	Linear pre-distortion

Security

	FIPS 140-2 Level 3 TRANSEC
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Mechanical/Environmental

Redundancy	Software Controlled, Hot-Swappable, and Auto-Failover
Weight	0.91 kg (2.0 lbs)
Operating Temperature	0° to +45°C (+32° to +113°F), 0–95% non condensing
Input Voltage	24V; 65W (max)
Certification (System Level)	FCC, CE, and RoHS Compliant

*Specifications are software dependent

Specifications are subject to change without notice