

## 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

<b>Network Technology</b>	DVB-S2 , DVB-S2X
<b>Modem</b>	One Modulator (Transmit one downstream carrier)
<b>Modulation</b>	QPSK, 8PSK, 16APSK, 32APSK
<b>FEC</b>	LDPC 1/4 - 8/9
<b>Symbol Rate</b>	Up to 45 Msps
<b>Maximum Info Rate</b>	150 Mbps*
<b>Maximum IP Data Rate</b>	149 Mbps* (16APSK, 8/9 FEC)
<b>Interoperability</b>	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

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

### Security

	FIPS 140-2 Level 3 Certified (#3056) TRANSEC module (E0002268)
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### Mechanical/Environmental

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

\*Specifications are software dependent

*Specifications are subject to change without notice*