

## 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 hub chassis and is synchronized in timing/frequency to PPS/10 MHz references distributed across the backplane. The DLC-T also comes embedded in the Series 11000 Tactical Hub. 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 (51F/20Slot) and comes embedded in Series 11000 Tactical Hub 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 for Data/Control with Link Aggregation 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

	TRANSEC module (E0002268)
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### Mechanical/Environmental

<b>Redundancy</b>	Software Controlled, Hot-Swappable and Auto-Failover
<b>Weight</b>	2.0 lbs (0.91 kg)
<b>Operating Temperature</b>	32° to +113°F (0° to +45°C)
<b>Input Voltage</b>	24V; 65W (max)
<b>Certifications</b>	WGS Certified FIPS 140-2 Level 3 (#3056) - TRANSEC Module
<b>Compliance</b>	FCC, CE & RoHS

*Above specifications are Evolution only and software dependent*