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.

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
Max Info Rate	150 Mbps*
Max IP Data Rate	149 Mbps* (16APSK, 8/9 FEC)

Interoperability

Compatible with Series 15100 Universal Hub (5IF/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.

* Specifications are software dependent.

EVOLUTION DEFENCE

EVOLUTION

powered by
Newtec iDIRECT

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 Certified (#3056) TRANSEC module (E0002268)

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)