



DLC-R Line Card

The Defense Receive Line Card (DLC-R) is suited for supporting secure voice, data and video communication links for mission-critical military applications in conjunction with a modulator card (such as DLC-T). The DLC-R provides FIPS 140-2 Level 3 security with the introduction of an on-board TRANSEC module. The line card features a multi-channel demodulator with up to 16 channels operating in multi-frequency Adaptive TDMA with aggregate return of up to 29 Msp. The specifications below represent the full capability of the DLC-R. Actual performance is based upon the software release deployed.

Network Configuration

Network Technology	Adaptive TDMA
Modem	Demodulates up to 16 channels
Modulation	SS-BPSK (SF: 2/4/8), BPSK, QPSK, 8PSK
FEC	2D 16-State 1/2-6/7
Carrier Parameters	Minimum: 128 ksps Maximum: 29 Msp/Mcps Maximum aggregate symbol/chip rate: 29 Msp/Mcps Maximum ACQ channels: up to 8 Superburst
Information Bit Rate	Max Composite: 80 Mbps

Interoperability

Compatible with Series 15100 Universal Hub (5IF/20 Slot) and comes embedded in Series 11000 Tactical Hub.
Co-exist with eMxDx series Transmit/Receive line cards.
Requires Evolution 3.4 software or above.

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Interfaces

SatCom Interfaces

Rx In: Type-F, 950–2000 MHz, -5dBm (max) composite, -130+10*log(Fsym)dBm (min) single carrier
Rx Monitor: Type-F

Data Interfaces

LAN: 2 GigE ports
Console: RS232 over RJ-45

Timing Interface

Locked to customer supplied PPS/10 MHz through backplane

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)