

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 mode and with aggregate return of up to 29 Msps. 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 Msps/Mcps Maximum aggregate symbol/chip rate: 29 Msps/Mcps Maximum ACQ channels: up to 8 Superburst
Information Bit Rate	Max Composite: 80 Mbps
Interoperability	Compatible with Series 15100 Universal Hub (51F/20 Slot) 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	Rx In: Type-F, 950–2000 MHz, -5dBm (max) composite, $-130+10*\log(F_{sym})$ 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 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 subject to change without notice