

## Evolution XLC-M Line Card



The Evolution XLC-M line card features one demodulator for inbound traffic only and is hardware-ready to support multi-channel demodulation through future licensed software images. The line card fits in any new or existing universal hub chassis and supports deterministic MF-TDMA on the inbound.

The XLC-M line card supports an extremely efficient inbound FEC with 2D 16-State coding, making it ideal for voice, data and video applications where a network features one large outbound and multiple inbounds.

### Network Configuration

<b>Modem</b>	One Demodulator (Supports multiple software-demodulators in the future)
<b>Modulation</b>	Upstream (D-TDMA) BPSK, QPSK, 8PSK
<b>FEC</b>	Turbo 0.431-0.793 2D 16-State* 1/2-6/7
<b>Maximum Rates</b>	Symbol Rate 7.5 Msps Info Rate 11.8 Mbps (QPSK, .793 FEC, unlimited NMS under optimal conditions) IP Data Rate 10.8 Mbps (QPSK, .793 FEC, unlimited NMS under optimal conditions)
<b>Interoperability</b>	Compatible with Series 15000 Universal Hub (5IF/20Slot) chassis and Series 12000 Universal Hub (4-slot) Compatible with Evolution Series or iNFINITI Series remotes Compatible with Evolution Series or iNFINITI Series line cards for the outbound Requires iDX 2.0 software or above

### Interfaces

<b>SatCom Interfaces</b>	RxIF: Type-F, 950–1700 MHz, -5dBm (max) composite/ -130+10*log(Fsym)dBm (min) single carrier
<b>Data Interfaces</b>	LAN: RJ-45 Two 100/1000Base-T, one 10/100Base-T RS-232: RJ-45 (console connection) USB port

### Mechanical/Environmental

<b>Redundancy</b>	Software Controlled, Hot-Swappable, and Auto-Failover
<b>Weight</b>	~1.2 lbs (0.6 Kg)
<b>Operating Temperature</b>	0° to +45°C (+32° to +113°F)
<b>Radio Standards (System Level)</b>	EN 301-428 v1.3.1 — Ku-Band System Level Specification EN 301-443 v1.3.1 — C-Band System Level Specification
<b>Safety Standard (System Level)</b>	Complies with IEC 60950, EN 60950-1, UL 60950-1, CSA C22.2 No.60950-1-03
<b>Emission Standard (System Level)</b>	Complies with EN 55022 Class A, FCC Part 15 Class A, CISPR 22 Class A, EN 61000-3-2, EN 61000-3-3
<b>EMC/Immunity Standard (System Level)</b>	Complies with EN 55024, EN 301-489-1, EN 301-489-12, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11
<b>Certification</b>	FCC, CE, and RoHS Compliant

\*In DVB-S2 mode only

iDirect

13865 Sunrise Valley Drive  
Herndon, VA 20171  
Tel: +1 703.648.8000  
+1 866.345.0983  
www.idirect.net

Specifications are subject to change without notice