

## Evolution XLC-M Line Card



The Evolution XLC-M line card features multi-channel demodulation for inbound traffic in Adaptive TDMA or SCPC Return mode. The XLC-M line card supports an extremely efficient inbound FEC with 2D 16-State coding. Coupled with an Evolution modulator card such as XLC-11 it is ideal for networks featuring one large outbound and multiple inbounds supporting voice, data and video applications.

### Network Configuration

Modem	Multiple demodulators (subject to software version and license)	
	ATDMA	SCPC Return
Channels	M=1, 4, 8 or 16*	M=1 or 8*
Modulation	BPSK, QPSK, 8PSK	BPSK, QPSK, 8PSK
FEC	2D 16-State, TPC** (M=1 only)	2D 16-State
Symbol Rates	Single Channel Mode (M=1): Up to 7.5 Msps Multi Channel Mode (M=4, 8): Up to 5.875 Msps Multi Channel Mode (M=16): Up to 468 ksps Up to 7.5 Msps aggregate symbol rate	Multi Channel Mode (M=1, 8): Up to 11.75 Msps  Up to 40 Mbps aggregate carrier info rate
Max Info Rate	M=1: 19.2 Mbps <sup>1</sup>	M=1: 30.2 Mbps <sup>2</sup>
Max IP Data Rate	M=1: 16 Mbps <sup>1</sup>	M=1: 19.3 Mbps <sup>2</sup>
	Notes: <sup>1</sup> 8PSK, 438 6/7 FEC, Single Channel Demod	<sup>2</sup> 8PSK, 438 6/7
Interoperability	Compatible with Series 15000 Universal Hub chassis and Series 12000 Universal Hub Compatible with Evolution Series remotes and linecards in multi-channel mode Compatible with Evolution and iNFINITI Series remotes and line cards in single channel mode Requires iDX 3.1 software or above for 16-channel narrowband license Requires iDX 3.0 software or above in multi-channel mode and SCPC Return Requires iDX 2.0 software or above in single channel mode	

### Interfaces

SatCom Interfaces***	RxIF: Type-F, 950–2000 MHz, -5dBm (max) composite, -130+10*log(Fsym)dBm (min) single carrier
Data Interfaces	LAN: RJ-45; Two 100/1000Base-T, one 10/100Base-T; RS-232: RJ-45 (console connection)

### Mechanical/Environmental

Redundancy	Hot-Swappable Software controlled Auto-Failover by cards licensed for equal or greater number of channels, up to M=8. M=16 can only failover to another M=16 line card.
Weight	~1.2 lbs (0.6 Kg)
Operating Temperature	0° to +45°C (+32° to +113°F)
Radio Standards (System Level)	EN 301-428 v1.3.1 — Ku-Band System Level Specification EN 301-443 v1.3.1 — C-Band System Level Specification
Safety Standard (System Level)	Complies with IEC 60950, EN 60950-1, UL 60950-1, CSA C22.2 No.60950-1-03
Emission Standard (System Level)	Complies with EN 55022 Class A, FCC Part 15 Class A, CISPR 22 Class A, EN 61000-3-2, EN 61000-3-3
EMC/Immunity Standard (System Level)	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
Certification	FCC, CE, and RoHS Compliant

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