

Evolution XLC-11 Line Card



The Evolution XLC-11 line card features one modulator and one demodulator operating in either iNFINITI TDM or DVB-S2/ACM mode. The line card fits in any new or existing universal hub chassis making network expansion simple and easy. The XLC-11 line card supports the latest Spread Spectrum technology and an extremely efficient inbound FEC with 2D 16-State coding, making it ideally suited for voice, video and data applications in enterprise and mobility networks.

Network Configuration

Modem	One Modulator (Transmit one downstream carrier) One Demodulator (Receive one upstream carrier)		
Modulation	<u>Downstream (iNFINITI TDM)</u>	<u>Downstream (DVB-S2/ACM)</u>	<u>Upstream (D-TDMA)</u>
FEC	BPSK, QPSK, 8PSK	QPSK, 8PSK, 16APSK	BPSK, QPSK, 8PSK
Maximum Rates	Turbo, 0.495–0.879	LDPC, 1/4–8/9	Turbo, 0.431–0.793 2D 16-State* 1/2-6/7
	Symbol Rate	15 Msps	45 Msps
	Info Rate	21 Mbps ¹	150 Mbps ²
	IP Data Rate	20 Mbps ¹	138 Mbps ²
	Notes:	¹ QPSK, .879 FEC	² 16APSK 8/9 FEC
Spread Spectrum	Chip Rate	Up to 15 Mcps	Up to 7.5 Mcps
	Spreading Factor	2, 4, 8	1, 2, 4, 8, and 16
Interoperability	Compatible with Series 15000 Universal Hub (5IF/20Slot) chassis and Series 12000 Universal Hub (4-slot) Requires iDX 2.0 software or above		

Interfaces

SatCom Interfaces	TxIF: Type-F, 950–1700 MHz, +5dBm/-35dBm RxIF: Type-F, 950–1700 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) USB port
10 MHz Reference	10 MHz reference to LNB and BUC **

Mechanical/Environmental

Redundancy	Software Controlled, Hot-Swappable, and Auto-Failover
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 <i>*In DVB-S2 mode only **For Series 12000 Universal Hubs only</i>

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Specifications are subject to change without notice