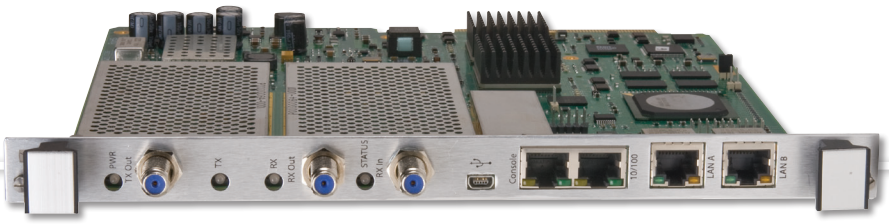
Evolution XLC-11
Line Card



The Evolution XLC-11 line card features one modulator and one demodulator operating in either DVB-S2/ACM or iNFINITI TDM mode on the outbound. It supports TDMA with 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)		
		Downstream DVB-S2/ACM or (iNFINITI TDM)	Upstream D-TDMA
Modulation		QPSK, 8PSK, 16APSK (BPSK, QPSK, 8PSK)	BPSK, QPSK, 8PSK
FEC		LDPC, 1/4–8/9 (TPC, 0.495–0.879)	TPC*, 0.431–0.793 2D 16-State** 1/2-6/7
Maximum Rates	Symbol Rate	45 Msps (15 Msps)	7.5 Msps
	Info Rate	150 Mbps[1] (21 Mbps[2])	12.5 Mbps[3]
	IP Data Rate	149 Mbps[1] (20 Mbps[2])	11.1 Mbps[3]
	Notes:	[1]16APSK, 8/9 FEC [2]QPSK, .879 FEC [3]QPSK, 6/7 FEC Maximum downstream and upstream data rates cannot be achieved simultaneously Maximum rates are achieved under optimal conditions	
Spread Spectrum	Chip Rate	(TDM: Up to 15 Mcps)	Up to 7.5 Mcps
	Spreading Factor	(TDM: 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)

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

** TPC not supported for use with DVB-S2 outbound in iDX 3.0 and above*

*** In DVB-S2 mode only*

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Specifications are subject to change without notice