

Evolution XLC-10 Line Card



The Evolution XLC-10 line card features the DVB-S2 standard with Adaptive Coding and Modulation (ACM) on the outbound (or downstream), as well as iNFINITI TDM. The line card fits in any new or existing universal hub chassis and supports data rates up to 156 Mbps, which makes network expansion simple and easy. It is ideally suited for broadband applications such as Internet and VPN access to enterprise networks, along with real-time VoIP and videoconferencing.

Network Configuration

Modem	One Modulator (Transmit one downstream carrier)
Symbol Rates	Downstream (DVB-S2/ACM): 1 Msps - 45 Msps Downstream (iNFINITI TDM): 128 Ksps - 15 Msps
Modulation	Downstream (DVB-S2/ACM): QPSK, 8PSK, 16APSK Downstream (iNFINITI TDM): BPSK, QPSK, 8PSK
IP Data Rates	Downstream (DVB-S2/ACM): Up to 156 Mbps (when using 16APSK) Downstream (iNFINITI TDM): Up to 20 Mbps (when using QPSK, 0.879FEC)
FEC	DVB-S2/ACM: LDPC QPSK $\frac{1}{4}$ - $\frac{9}{10}$, 8PSK $\frac{3}{5}$ - $\frac{9}{10}$, 16APSK $\frac{3}{5}$ - $\frac{9}{10}$ iNFINITI TDM: Turbo BPSK .495-.879, QPSK .495-.879, 8-PSK .793-.879
Interoperability	Compatible with 5IF hub chassis and 4-slot Hub chassis Requires Evolution Series remotes for DVB-S2 carriers and iNFINITI Series remotes for iNFINITI TDM carriers Requires iDX 1.0 software or above

Interfaces

SatCom Interfaces	TxIF: Type-F, 950-1750 MHz
Data Interfaces	LAN: RJ-45 Two 100/1000Base-T, one 10/100Base-T RS-232: RJ45 (Console connection) USB port
10 MHz Reference	10 MHz reference to BUC

Mechanical/Environmental

Redundancy	Software Controlled, Hot-swappable
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 Standards (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 B, FCC Part 15 Class B, CISPR 22 Class B, 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

* Spread Spectrum capable