

Evolution X7 Satellite Router



PRELIMINARY INFORMATION ONLY - SUBJECT TO CHANGE AT ANYTIME

Powerful, next-generation remote supporting DVB-S2/ACM on the outbound and A-TDMA or SCPC on the return, with performance capabilities for the most demanding applications. It features a compact, rack-mount design, embedded 8-port switch, a 2nd DVB-S2 demodulator, variant power supply configurations and Web iSite support making it an ideal enterprise class solution.

Network Configuration

Network Topology	Star (DVB-S2/ACM downstream + Multi Frequency A-TDMA or SCPC Return upstream)		
Maximum Rates Supported		Downstream	Upstream
		DVB-S2	A-TDMA or (SCPC Return)
	Modulation	QPSK, 8PSK, 16APSK	BPSK, QPSK, 8PSK (BPSK, QPSK, 8PSK)
	Symbol rate	1 - 45 Msps	128 ksps - 7.5 Msps (11.75 Msps)
	Info rate	Up to 150 Mbps	20 Mbps (30 Mbps)
	Max downstream and upstream data rates cannot be achieved simultaneously. Max rates are achieved under optimal conditions.		
Spread Spectrum (Max Rate Mcps)			Up to 7.5 Mcps Spreading Factors: 2, 4, 8, 16
FEC	Downstream: LDPC, 1/4 - 8/9; Upstream: 2D 16-State, 1/2 - 6/7		

Interfaces

SatCom Interfaces	Tx1F: Type-F, 950 - 1950 MHz, Composite Power +5dBm / -30dBm Rx11F: Type-F, 950 - 2150MHz, -5dBm (max) composite / -130+10*Log10(Sym rate) dBm (min) single carrier Rx21F: Type-F, 950 - 2150MHz, -5dBm (max) composite / -130+10*Log10(Sym rate) dBm (min) single carrier
Available BUC Power (IFL)	+24V, 118W max +48V, 134W max (optional)
Available LNB Power (IFL)	+19V (Nominal), 22KHz DiSEqC tone Rx1/Rx2 In: 13-18V @ 0.5A
Data Interfaces	LAN: Single 10/100, 802.1q VLAN RS-232: RJ45 (Console connection) 8-port Embedded Switch
Protocols Supported	TCP, UDP, ACL, ICMP, IGMP, RIP Ver2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, OpenAMIP, cRTP and GRE
Security	AES Link Encryption (256-bit) (optional)
Traffic Engineering	Group QoS, QoS (Priority Queuing and CBWFQ), Strict Priority Queuing, Application Based QoS, Minimum CIR, CIR (Static and Dynamic), Rate Limiting

Mechanical/ Environmental

Size	W 17.5 in (44.5 cm) x D 12 in (30.5 cm) x H 1.75 in (4.45 cm)
Weight	TBD
Operating Temperature	0° to +50°C (32° to +122°F) at Sea Level with temperature gradient of 1°C per 1 min 0° to +45°C (32° to +113°F) at 10,000 Feet with temperature gradient of 1°C per 1 min
Humidity	90% non-condensing humidity
Input Voltage	100-240 VAC, Auto-Ranging 36-76VDC (optional)
Radio Standards	EN 301-428 v1.3.1 — Ku-Band System Level Specification EN 301-443 v1.3.1 — C-Band System Level Specification EN 301-459 v1.4.1 — Ka-Band System Level Specification
Safety Standards	Complies with IEC 60950, EN 60950-1, UL 60950-1, CSA C22.2 No.60950-1-03
Emission Standard	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	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 (Certification pending)



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