

X7 Satellite Router



Powerful, next-generation remote supporting DVB-S2/ACM on the outbound and ATDMA and 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	
	Downstream	Upstream
	DVB-S2	ATDMA
Modulation	QPSK, 8PSK, 16APSK	BPSK, QPSK, 8PSK
FEC	LDPC, 1/4 - 8/9	2D 16-State, 1/2 - 6/7
Max. Symbol Rate	1 - 45 Msps	128 ksps - 7.5 Msps
Max. Info Rate	149.7 Mbps	19.2 Mbps
Max. IP Data Rate	59.2 Mbps	16 Mbps
Spread Spectrum (Max Rate Mcps)		Up to 7.5 Mcps Spreading Factors: 2, 4, 8

Max rates are achieved under optimal conditions.



Interfaces

SatCom Interfaces	TxF: Type-F, 950 - 1950 MHz, Composite Power +3dBm / -35dBm Rx1/Rx2* IF: Type-F, 950 - 2150MHz, -5dBm (max) composite / -130+10*Log10(Sym rate) dBm (min) single carrier 10MHz/50MHz IFL BUC reference
Available BUC Power (IFL)	+24V, 118W max available @ connector +48V, 158W max available @ connector (optional)
Available LNB Power (IFL)	+19V (Nominal), 22KHz DiSEqC tone Rx1/Rx2 In: 13-18V @ 0.5A
Data Interfaces	LAN: 8-port ethernet switch, 10/100, 802.1q VLAN RS-232: RJ45 (Console connection), RS-422: RJ45 BUC I/O port (future release)
Security	AES Link Encryption (256-bit) (optional)
Protocols Supported	TCP, UDP, ACL, ICMP, IGMP, RIP Ver2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, OpenAMIP, cRTP and GRE
Traffic Engineering	Group QoS, QoS (Priority Queuing and CBWFQ), Strict Priority Queuing, Application Based QoS, Minimum CIR, CIR (Static and Dynamic), Rate Limiting
Other Features	Transmit Key Line*

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	10 lbs (4.54 kg)
Operating Temperature	0° to +50°C (32° to +122°F) at Sea Level with temperature gradient of 1°C per 1 min
Humidity	90% non-condensing humidity
Input Voltage	100-240 VAC, Auto-Ranging; ±36-76VDC (±48 VDC nominal) (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
Certifications	FCC, CE and RoHS compliant

* Feature/license available in a future software release