

## X7 Satellite Router



Powerful, next-generation remote supporting DVB-S2/ACM on the outbound and A-TDMA 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 2<sup>nd</sup> DVB-S2 demodulator\*, variant power supply configurations and Web iSite support making it an ideal enterprise class solution.

### Network Configuration

<b>Network Topology</b>	Star		
	<b>Downstream</b>	<b>Upstream</b>	
	<u>DVB-S2</u>	<u>A-TDMA</u>	<u>SCPC Return*</u>
<b>Modulation</b>	QPSK, 8PSK, 16APSK	BPSK, QPSK, 8PSK	BPSK, QPSK, 8PSK
<b>FEC</b>	LDPC, 1/4 - 8/9	2D 16-State, 1/2 - 6/7	2D 16-State, 1/2 - 6/7
<b>Max. Symbol Rate</b>	1 - 45 Msps	128 ksps - 7.5 Msps	128 ksps - 11.75 Msps
<b>Max. Info Rate</b>	Up to 150 Mbps	18 Mbps	30 Mbps
<b>Max. IP Data Rate</b>	(TBD)		
<b>Spread Spectrum (Max Rate Mcps)</b>		Up to 7.5 Mcps Spreading Factors: 2, 4, 8	
	<i>Max rates are achieved under optimal conditions.</i>		

### Interfaces

<b>SatCom Interfaces</b>	TxIF: 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
<b>Available BUC Power (IFL)</b>	+24V, 118W max available @ connector +48V, 158W max available @ connector (optional)
<b>Available LNB Power (IFL)</b>	+19V (Nominal), 22KHz DiSEqC tone Rx1/Rx2 In: 13-18V @ 0.5A
<b>Data Interfaces</b>	LAN: 8-port ethernet switch, 10/100, 802.1q VLAN RS-232: RJ45 (Console connection) RS-422 BUC I/O port (future release)
<b>Protocols Supported</b>	TCP, UDP, ACL, ICMP, IGMP, RIP Ver2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, OpenAMIP, cRTP and GRE
<b>Traffic Engineering</b>	Group QoS, QoS (Priority Queuing and CBWFQ), Strict Priority Queuing, Application Based QoS, Minimum CIR, CIR (Static and Dynamic), Rate Limiting

### Mechanical/ Environmental

<b>Size</b>	W 17.5 in (44.5 cm) x D 12 in (30.5 cm) x H 1.75 in (4.45 cm)
<b>Weight</b>	10 lbs (4.54 kg)
<b>Operating Temperature</b>	0° to +50°C (32° to +122°F) at Sea Level with temperature gradient of 1°C per 1 min
<b>Humidity</b>	90% non-condensing humidity
<b>Input Voltage</b>	100-240 VAC, Auto-Ranging ±36-76VDC (±48 VDC nominal) (optional)
<b>Radio Standards</b>	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
<b>Safety Standards</b>	Complies with IEC 60950, EN 60950-1, UL 60950-1, CSA C22.2 No.60950-1-03
<b>Emission Standard</b>	Complies with EN 55022 Class B, FCC Part 15 Class B, CISPR 22 Class B, EN 61000-3-2, EN 61000-3-3
<b>EMC/Immunity Standard</b>	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
<b>Certification</b>	FCC, CE and RoHS compliant

\* Feature/license available in a future software release