

## X7 Satellite Router



Powerful, next-generation remote supporting DVB-S2/ACM on the outbound and ATDMA 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>Adaptive TDMA</u>
<b>Modulation</b>	QPSK, 8PSK, 16APSK, 32APSK	BPSK, QPSK, 8PSK
<b>FEC</b>	LDPC, 1/4 - 8/9	2D 16-State, 1/2 - 6/7
<b>Max. Symbol Rate</b>	1 - 45 Msps	128 ksps - 7.5 Msps
<b>Max. Info Rate</b>	149.7 Mbps	19.2 Mbps
<b>Max. IP Data Rate</b>	59.2 Mbps	16 Mbps
<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>	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 Reference Clock Out: 10/50 MHz, +/-10 ppm stability, 0 dBm -3/+4 dB power
<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: RJ45 BUC I/O port (future release)
<b>Security</b>	AES Link Encryption (256-bit) (optional)
<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
<b>Other Features</b>	Transmit Key Line*

### 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>Certifications</b>	FCC, CE, TUV, and RoHS compliant

\* Feature/license available in a future software release