

## 9350 Satellite Router



### Network Configuration \*

<b>Compatibility</b>	Evolution® and iDirect Velocity™ compatible		
<b>Network Topology</b>	DVB-S2 with Adaptive TDMA Returns and Adaptive SCPC Return		
	<b>Downstream</b>	<b>Upstream</b>	
	DVB-S2/ACM	Adaptive TDMA (or Adaptive SCPC Return)	
<b>Modulation</b>	QPSK, 8PSK, 16APSK, 32APSK	BPSK, QPSK, 8PSK, 16QAM	
<b>FEC</b>	LDPC 1/4-8/9	2D 16-State 1/2-6/7	
<b>Maximum Rates</b>	Symbol	45 Msps	15 Msps (29 Msps)
	<i>Maximum downstream and upstream data rates cannot be achieved simultaneously Maximum rates are achieved with optimal configurations</i>		
<b>Spread Spectrum</b>	Spreading Factor	2, 4 and 8	
	Max Chip Rate	15 Mcps (29 Mcps)	
	*Above specs are Evolution only and software dependant.		

### Interfaces

<b>SatCom Interfaces</b>	Tx: Type-N, 950-2400 MHz, Composite Power +5dBm/-35dBm, 50Ω Rx1: Type-TNC, 950-2150 MHz, -5dBm (max) composite / -130+10*log10 (Sym rate) dBm (min) single carrier, 50Ω Rx2: Type-TNC, 950 - 2150 MHz, -5dBm (max) composite / -130+10*log10 (Sym rate) dBm (min) single carrier, 50Ω RX Monitor: Type-TNC, 50Ω Software controllable 10/50 MHz reference on Tx, Rx1 and Rx2
<b>Available BUC Power (IFL)</b>	+24V, 5A max available @ connector +48V, 5A max available @ connector (optional)
<b>Available LNB Power (IFL)</b>	Rx1/Rx2: 13-19V @ 0.45A, 22KHz DiSeqC tone
<b>Data Interfaces</b>	LAN: 8-port switch, 10/100/1000, 802.1q VLAN, Additional 10/100/1000 port on front
<b>I/O</b>	RS-232: RJ45 (Console connection), Additional console port on front, RS-232 NMEA GPS, RS-232 GPS input for antenna Control Signaling, RS-422 Keyline, RS-422 BUC control, RS-422 Filter select
<b>Protocols Supported</b>	TCP, UDP, ACL, ICMP, IGMP, RIPv2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, OpenAMIP, cRTP and GRE
<b>Security</b>	AES FIPS 140-2 Level 3**, Link Encryption (256-bit), TRANSEC, X.509 digital certificates authentication, Automatic Key Management
<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>	Built-in Automatic Uplink Power, Frequency and Timing Control, Authentication, Antenna Control Interface (OpenAMIP), Supports Multiprotocol Encapsulation (MPE), Low-Speed COTM

### Mechanical/Environmental

<b>Size</b>	W 17 in x D 12 in x H 1.75 in (W 43.18 cm x D 30.48 cm x H 4.45 cm)
<b>Weight</b>	11.0 lbs (4.99 kg)
<b>Operating Temperature</b>	-40° to +60°C (-40° to +140°F)
<b>Altitude</b>	Operational: Up to 15,000 ft (4,572m); Storage: Up to 50,000 ft (15,240m)
<b>Humidity</b>	95% non-condensing humidity
<b>Input Voltage</b>	100-240 VAC, 50-60Hz 36-76VDC
<b>Radio Standards</b>	ETSI EN 301-428 (Ku-band), ETSI EN 301-443 (C-band), ETSI EN 301-360, ETSI EN 301-459 (Ka-band)
<b>Safety Standards</b>	IEC 60950-1, EN 60950-1, UL 60950-1, CAN/CSA C22.2 No.60950-1
<b>EMC Standards</b>	EN 301 489-1, EN 301 489-12, EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, FCC Part 15: Class B, ICES-003: Class B
<b>Certifications</b>	FCC, CE, TUV, and RoHS compliant WGS**, Meets MIL-STD 810G

\*\*Certification pending

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