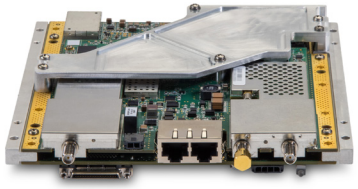
950mp
Integrated Satellite Router Board



Network Configuration *

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

Interfaces

SatCom Interfaces	Tx: Type-SMA, 950-2400 MHz, +5dBm/-35dBm, 50Ω Rx: Type-SMA, 950-2150 MHz, -5dBm (max) composite/ -130+10*log (Sym rate) dBm (min) single carrier, 50Ω Rx Reference Port (Out): Type-SMA, 50Ω Software controllable 10/50 MHz reference on Tx and Rx Reference Port Out
Available BUC Power (IFL)	+24V, 2A max available @ connector
Available LNB Power (IFL)	Rx: 13-19V @ 0.45A, 22KHz DiSEqC tone
Data Interfaces	LAN: Dual 10/100/1000 Mbps Ethernet
I/O	RS-232 Console connection, RS-232 NMEA GPS, RS-232 GPS input for Antenna Control Signaling RS-422 Keyline, RS-422 BUC control, RS-422 Filter Select
Protocols Supported	TCP, UDP, ICMP, IGMP, RIPv2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, OpenAMIP, cRTP, and GRE
Security	AES FIPS 140-2 Level 3**, Link Encryption (256-bit), TRANSEC, X.509 digital certificates authentication, Automatic Key Management
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	Built-in Automatic Uplink Power, Frequency and Timing Control, Authentication, Antenna Control Interface (OpenAMIP), Supports Multiprotocol Encapsulation (MPE), Low-Speed COTM

Mechanical/Environmental

Size	W 6.6 in x D 7.0 in x H 1.25 in (W 16.76 cm x D 17.78 cm x H 3.175 cm)
Weight	1.45 lbs (0.65 kg)
Operating Temperature	-40° to +140°F (-40° to +60°C)
Altitude	Operational: Up to 15,000 ft (4,572m); Storage: Up to 40,000 ft (12,192m)
Humidity	95% non-condensing humidity
Input Voltage	12-24VDC
Power Consumption	< 20Watts
Radio Standards	ETSI EN 301-428 (Ku-band), ETSI EN 301-443 (C-band), ETSI EN 301-360, ETSI EN 301-459 (Ka-band)
Safety Standards	IEC 60950-1, EN 60950-1, UL 60950-1, CAN/CSA C22.2 No.60950-1
EMC Standards	EN 301 489-1, EN 301 489-12, EN 55022, EN 55024, FCC Part 15: Class B, ICES-003: Class B
Certifications	Built to meet FCC, UL, CE, EU and Canadian Standards RoHS compliant WGS** Meets MIL-STD 810G

** Certification pending

*Above specs are Evolution only and software dependant.
Specifications are subject to change without notice