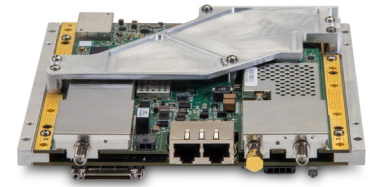


950mp Integrated Satellite Router Board



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	
FEC	LDPC 1/4-8/9	2D 16-State 1/2-6/7	
Maximum Rates	Symbol	45 Msps	29 Msps
	<i>Maximum downstream and upstream data rates cannot be achieved simultaneously Maximum rates are achieved with optimal configurations</i>		
Spread Spectrum	Spreading Factor	2, 4 and 8	
	Max Chip Rate	29 Mcps	

Interfaces

SatCom Interfaces	Tx: SMA, 950-2400 MHz, +5dBm/-35dBm, 50Ω Rx: SMA, 950-2150 MHz, -5dBm (max) composite/ -130+10*log (Sym rate) dBm (min) single carrier, 50Ω Rx Reference Port (Out): 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
Data Interfaces	LAN: Dual 10/100/1000 Mbps Ethernet
I/O	RS-232 Console, RS-232 Serial NEMA GPS Input, 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, OpenBMIP, cRTP, and GRE
Security	FIPS 140-2 Level 3 Certified (#3056) TRANSEC module (E0002268), AES Link Encryption (256-bit)**, X.509 Digital Certificates, 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, Supports Multiprotocol Encapsulation (MPE), Low-Speed COTM, 22 kHz DiSEqC tone

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
Certifications	RoHS compliant WGS Meets MIL-STD 810G <i>Please note that the integrator is responsible for certifications at the terminal level. For more information, please see www.idirect.net/doc.</i>

*Specifications are Evolution only and are software dependant

** Applies to iDirect Velocity only and is software dependent

Specifications are subject to change without notice