950mp
Integrated Satellite Router Board
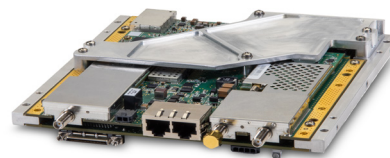
Network Configuration

Compatibility	Evolution® and iDirect Velocity™ compatible		
Network Topology	DVB-S2 with Adaptive TDMA Returns		
		Downstream	**Upstream**
		DVB-S2/ACM	A-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

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: 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 I/O	LAN: Dual 10/100/1000 Mbps Ethernet
	RS-232 Console
	RS-232 Serial NMEA 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
Security	TRANSEC module (E0002268), AES Link Encryption (256-bit)*, X.509 Digital Certificates, Automatic Key Management, CSIR**, SHIELD
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)
Temperature	Operational: -40° to +140°F (-40° to +60°C); Storage: -40° to +176°F (-40° to +80°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	< 20W
Certifications	WGS Certified
	FIPS 140-2 Level 3 (#3056) - TRANSEC Module
Compliance	Designed to meet MIL-STD 810G
	RoHS

Unless otherwise specified, the information given above is for the Evolution platform and is software dependent. The activation of some features may require a license or subscription. Integrators are responsible for certifications at the terminal level. For more information, please contact your sales representative.
*Applies to iDirect Velocity only and is software dependent.
**CSIR is controlled under the jurisdiction of the International Traffic in Arms Regulations (ITAR).