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	LAN: Dual 10/100/1000 Mbps Ethernet
I/O	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.

DCSA CAGE:
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