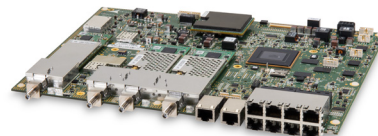


900 Integrated Satellite Router Board



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
	<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, Composite Power +3dBm/-35dBm, 50Ω Rx1: SMA, 950-2150 MHz, -5dBm (max) composite / -130+10*log10 (Sym rate) dBm (min) single carrier, 50Ω Rx2: SMA, 950-2150 MHz, -5dBm (max) composite / -130+10*log10 (Sym rate) dBm (min) single carrier, 50Ω Rx Monitor: SMA, 50Ω Software controllable 10/50 MHz reference on Tx, Rx1 and Rx2
Available BUC Power (IFL)	+24V, 2A max available @ connector +48V, 2A max available @ connector
Available LNB Power (IFL)	Rx1/Rx2: 13-19V @ 0.45A
Data Interfaces	LAN: 8-port switch, 10/100/1000, 802.1q VLAN
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, ACL, 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, 22kHz DiSEqC tone

Mechanical/Environmental

Size	W 11.2 in x D 8.75 in x H 1.0 in (W 28.44 cm x D 22.22 cm x H 2.54 cm)
Weight	<1.7 lbs (0.77 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 50,000 ft (15,240m)
Humidity	95% non-condensing humidity
Input Voltage	24VDC
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).