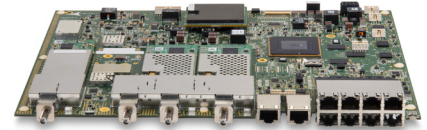


# 900 Integrated Satellite Router Board



## Network Configuration \*

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

## Interfaces

<b>SatCom Interfaces</b>	Tx: SMA, 950-2400 MHz, Composite Power +5dBm/-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
<b>Available BUC Power (IFL)</b>	+24V, 2A max available @ connector +48V, 2A max available @ connector
<b>Available LNB Power (IFL)</b>	Rx1/Rx2: 13-19V @ 0.45A
<b>Data Interfaces</b>	LAN: 8-port switch, 10/100/1000, 802.1q VLAN
<b>I/O</b>	RS-232 Console, RS-232 Serial NEMA GPS Input, RS-422 Keyline, RS-422 BUC control, RS-422 Filter select
<b>Protocols Supported</b>	TCP, UDP, ACL, ICMP, IGMP, RIPv2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, OpenAMIP, cRTP and GRE
<b>Security</b>	AES FIPS 140-2 Level 3, Link Encryption (256-bit)**, TRANSEC, X.509 digital certificates authentication, Automatic Key Management
<b>Traffic Engineering</b>	Group QoS, QoS (Priority Queuing and CBWFQ), Strict Priority Queuing, Application Based QoS, Minimum CIR, CIR (Static and Dynamic), Rate Limiting
<b>Other Features</b>	Built-in Automatic Uplink Power, Frequency and Timing Control, Authentication, Supports Multiprotocol Encapsulation (MPE), Low-Speed COTM, 22 kHz DiSEqC tone

## Mechanical/Environmental

<b>Size</b>	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)
<b>Weight</b>	<1.7 lbs (0.77 kg)
<b>Operating Temperature</b>	-40° to +140°F (-40° to +60°C)
<b>Altitude</b>	Operational: Up to 15,000 ft (4,572m); Storage: Up to 50,000 ft (15,240m)
<b>Humidity</b>	95% non-condensing humidity
<b>Input Voltage</b>	24VDC
<b>Certifications</b>	Built to meet FCC, UL, CE, EU and Canadian Standards RoHS compliant WGS Meets MIL-STD 810G

\*Specifications are Evolution only and are software dependant

\*\* Applies to iDirect Velocity only and is software dependent

*Specifications are subject to change without notice*