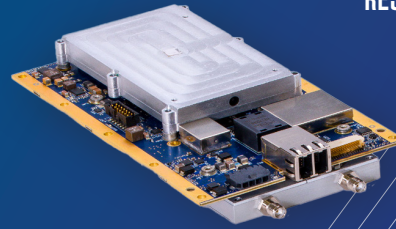


# Integrated Satellite Router Board (450mp\*)



## NETWORK CONFIGURATION

<b>Compatibility</b>	Evolution® compatible	
<b>Network Topology</b>	DVB-S2 with Adaptive TDMA Returns; multi-waveform and multi-orbit capable	
	<b>Downstream</b>	<b>Upstream</b>
	<b>DVB-S2/ACM</b>	<b>A-TDMA</b>
<b>Modulation</b>	QPSK, 8PSK, 16APSK, 32APSK	BPSK, QPSK, 8PSK
<b>FEC</b>	LDPC/BCM 1/4-8/9	2D 16-State 1/2-6/7
<b>Maximum Rates (Symbol)</b>	125 Msps Maximum downstream and upstream data rates cannot be achieved simultaneously. Maximum rates are achieved with optimal configurations.	125 Msps
<b>Spread Spectrum</b>	Spreading Factor	2, 4 and 8
	Max Chip Rate	29 Mcps

## INTERFACES

<b>SATCOM Interfaces</b>	Tx: SMP/SSMA, 950-2450 MHz, 0dBm, 50Ω Rx: SMP/SSMA, 950-2450 MHz, -5dBm (max) composite/ -130+10*log (Sym rate) dBm (min) single carrier, 50Ω Software controllable 10/50 MHz reference on Tx
<b>Available BUC Power (IFL)</b>	+24 VDC nominal, 2 A max
<b>Available LNB Power (IFL)</b>	+13 VDC to +19 VDC, 0.45 A max
<b>Data Interfaces</b>	Dual 10/100/1000 Mbps Ethernet
<b>I/O</b>	SGMII Integrator Port, RS-232 Serial NMEA GPS input, RS-422 Keyline, RS-422 BUC control, RS-422 Filter Select
<b>Protocols Supported</b>	TCP, UDP, ICMP, IGMP, RIPv2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, OpenAMIP, OpenBMIP, cRTP
<b>Security</b>	TRANSEC, X.509 Digital Certificates, Automatic Key Management, CSIR, SHIELD
<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, Low-Speed COTM, 22 kHzDiSEqC tone

## MECHANICAL/ENVIRONMENTAL

<b>Size</b>	W 3.70 in x D 6.35 in x H 1.25 in (W 9.40 cm x D 6.35 cm x H 3.18 cm)
<b>Weight</b>	.95 lbs (0.43 kg)
<b>Temperature</b>	Operational: -40° to +140°F (-40° to +60°C); Storage: -40° to +185°F (-40° to +85°C)
<b>Altitude</b>	Operational: Up to 15,000 ft (4,572m); Storage: Up to 40,000 ft (12,192m)
<b>Humidity</b>	95% non-condensing humidity
<b>Input Voltage</b>	12-24VDC
<b>Power Consumption</b>	26W at 12V input voltage (typical at 22°C ambient temperature)
<b>Certifications</b>	WGS Pending, FIPS 140-3 Level 3 Pending
<b>Compliance</b>	Designed and tested to MIL-STD 810H for vibration, shock, temperature, humidity, and altitude, RoHS

\*Specifications subject to change

Unless otherwise specified, the information given above is for the Evolution Defense 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.