

## 9050 OM Outdoor Satellite Router



### 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	A-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: Type N, 950-2400 MHz, +5dBm/-35dBm, 50Ω Rx: TNC, 950-2150 MHz, -5dBm (max) composite/ -130+10*log (Sym rate) dBm (min) single carrier, 50Ω Software controllable 10/50 MHz reference on Tx and Rx
<b>Available BUC Power (IFL)</b>	24 VDC, 2 A max
<b>Available LNB Power (IFL)</b>	13 to 19 VDC, 0.45 A max
<b>Data Interfaces</b>	Dual 10/100/1000 Mbps Ethernet
<b>I/O</b>	RS-232 Console RS-232 Serial NMEA GPS input RS-422 TX Key line
<b>Protocols Supported</b>	TCP, UDP, ICMP, IGMP, RIPv2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, OpenAMIP, cRTP
<b>Security</b>	TRANSEC module (E0002268), AES Link Encryption (256-bit) <sup>1</sup> , 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, Supports Multiprotocol Encapsulation (MPE), Low-Speed COTM, 22 kHz DiSEqC tone, Zeroize Button, LED Blackout Switch

### Mechanical/Environmental

<b>Size</b>	W 8.05 in x D 12.38 in x H 2.62 in (W 20.45 cm x D 31.45 cm x H 6.65 cm)
<b>Weight</b>	6.54 lbs (2.97 kg)
<b>Temperature</b>	Operational: -40° to +140°F (-40° to +60°C); Storage: -40° to +176°F (-40° to +80°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>	12 to 24 VDC, 3.55 A max
<b>Power Consumption</b>	< 20W
<b>Certifications</b>	WGS Certification Pending FIPS 140-2 Level 3 (#3056) - TRANSEC Module
<b>Compliance</b>	MIL-STD 810G RoHS

### Outdoor Power Supply<sup>2</sup>

<b>Size</b>	W 6.85 in x D 3.66 in x H 2.20 in (W 17.40 cm x D 9.30 cm x H 5.59 cm)
<b>Weight</b>	2.21 lbs (1.00 kg)
<b>Cable</b>	AC side: 96 in, ~0.50 lbs (243.84 cm, 0.23 kg); DC side: 24 in ~0.50 lbs (60.96 cm, 0.23 kg)

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.

<sup>1</sup>Applies to iDirect Velocity only and is software dependent; <sup>2</sup>Optional based on product configuration ordered