9050 OM
Outdoor Satellite Router

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: 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
Available BUC Power (IFL)	24 VDC, 2 A max
Available LNB Power (IFL)	13 to 19 VDC, 0.45 A max
Data Interfaces	Dual 10/100/1000 Mbps Ethernet
I/O	RS-232 Console RS-232 Serial NMEA GPS input RS-422 TX Key line
Protocols Supported	TCP, UDP, ICMP, IGMP, RIPv2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, OpenAMIP, cRTP
Security	TRANSEC module (E0002268), AES Link Encryption (256-bit)[1], 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, Zeroize Button, LED Blackout Switch

Mechanical/Environmental

Size	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)
Weight	6.54 lbs (2.97 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	12 to 24 VDC, 3.55 A max
Power Consumption	< 20W
Certifications	WGS Certification Pending FIPS 140-2 Level 3 (#3056) - TRANSEC Module
Compliance	MIL-STD 810G RoHS

Outdoor Power Supply[2]

Size	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)
Weight	2.21 lbs (1.00 kg)
Cable	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.
[1]Applies to iDirect Velocity only and is software dependent; [2]Optional based on product configuration ordered
*CSIR is controlled under the jurisdiction of the International Traffic in Arms Regulations (ITAR).

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