

9050 OM Outdoor Satellite Router



Network Configuration *

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|-------------------------|--|-----------------|---------------------|
| 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

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|----------------------------------|---|
| 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, and GRE |
| Security | FIPS 140-2 Level 3, AES Link Encryption (256-bit)**, TRANSEC, X.509 Digital Certificates Authentication, Automatic Key Management |
| 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

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|--------------------------------|---|
| 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 +131°F (-40° to +55°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 | RoHS compliant WGS Certification Pending |
| MIL-STD 810G Compliance | Vibration/Loose Cargo, Shock, Drop, Temperature, Humidity, Blowing Rain, Immersion, Sand/Dust, and Altitude |

*Specifications are Evolution only and software dependent

**Applies to iDirect Velocity only and is software dependent
Specifications are subject to change without notice