9800 AR

Airborne Satellite Router



Network Configuration			
Compatibility	Evolution [®] and iDirect Velocity [™] compatible		
Network Topology	DVB-S2 with Adaptive TDMA Returns		
	Downstream DVB-S2/ACM		Upstream A-TDMA
Modulation	QPSK, 8PSK, 16	SAPSK	BPSK, QPSK, 8PSK
FEC	LDPC 1/4-8/9		2D 16-State 1/2-6/7
Maximum Rates	Symbol 45 Msps		15 Msps
Maximum nates	Maximum downstream and upstree	um data rates cannot	
	Maximum rates are achieved with optimal configurations		
Spread Spectrum	Spreading Factor		2, 4 and 8
	Max Chip Rate		15 Mcps
Interfaces	1		
SATCOM Interfaces	Tx:Type-N, 950-2050 MHz, Composite Power 0 dBm to -30 dBm, 50ΩRx:TNC, 950-2150MHz, -5 dBm (max) composite to -130+10*Log10(Sym rate) dBm (min) single carrier50Ω		
	Software Controllable 10/50 MHz	Reference on Tx	
Data Interfaces	LAN: Two Gigabit Ethernet; 1-front, 1-back Two 10/100 Mbps Ethernet; 2-D38999 Console: RS-232 Console connection 10/50 MHz: TNC, External reference clock		
CPU Interfaces			
	KVM – rear panel Serial Com 1 – (RS-232) – rear panel		
	Serial Com 2 – (RS-485) – rear panel		
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)**, X.509 Digital Certificates, Automatic		
	Key Management, SHIELD		
Traffic Engineering	Group QoS, QoS (Priority Queuing and CBWFQ), Strict Priority Queuing, Application Based QoS, Minimum CIR, CIR (Static and Dynamic), Rate Limiting		
Discrete Interfaces	Transmit Control, Transmit Mute, Weight on Wheels, Flight Crew Ground Transmit Override, Maintenance Ground Transmit Override		
Other Features	Built-in Automatic Uplink Power, Frequency and Timing Control, Authentication, Remote On/Off Interface Available, Ultra High-Speed COTM		
Mechanical/Environmental			
Size	W 19.00 in x D 20.75 in x H 1.73 in (W 48.26cm x D 52.71cm x H 4.39cm)		
Weight	13.47 lbs (6.11 kg)		
Temperature	Operational: -4° to +131°F (-20° to +55° C); Storage: -40° to +176°F (-40° to +80 °C)		
Altitude	Operational: Up to 25,000 ft (7,620m); Storage: up to 30,000 ft (9,144m)		
Relative Humidity	Max 95% non-condensing humidity (operational)		
Input Voltage	100-240VAC, 50-60Hz; 115VAC, 400Hz, 22-36VDC		
Power Consumption	AC: 4.0A maximum at 110VAC, 60Hz DC: 7.0A maximum at 28VDC		
MIL-STD-810G Compliance	Operational Vibration Operational Shock Acceleration	Rapid Decompres Explosive Atmosp Altitude	
DO-160G Compliance	Operational Shock/Crash Safety Vibration Temperature and Altitude Explosive Atmosphere Electrostatic Discharge (ESD) Humidity		Susceptibility
MIL-STD-461G Compliance MIL-STD-704F Compliance Certifications	Electromagnetic Interference (EMI) Aircraft Electrical Power WGS		
	FIPS 140-2 Level 3 (#3056) - TRAN	SFC Module	

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. *Applies to iDirect Velocity only and is software dependent

CSA CAGE: 503H8 0824