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iConnex e800
Satellite Router Board
Models e800, e800-FIPSL2



iConnex e800 shown

Configuration

Network Topology	Star, Mesh and iSCPC			
		Downstream DVB-S2/ACM	Downstream iNFINITI TDM	Upstream D-TDMA or (SCPC Return*)
Modulation		QPSK, 8PSK, 16APSK	BPSK, QPSK, 8PSK	BPSK, QPSK, 8PSK (BPSK, QPSK, 8PSK)
FEC		LDPC, 0.25–0.9	TPC, 0.431–0.879	TPC**, 0.431–0.793, 2D 16-State (2D 16-State)
Maximum Carrier Rates	Symbol Rate	45 Msps	15 Msps	7.5 Msps (15 Msps)
	Info Rate	150 Mbps[1]	21 Mbps[2]	12.8 Mbps[4] (24 Mbps[5])
	Line Card IP	149 Mbps[1]	20 Mbps[2]	11.1 Mbps[4] (20 Mbps[5])
	Data	38.5 Mbps[1]	17 Mbps[3]	11.1 Mbps[4] (20 Mbps[5])
	Remote IP Data			
	Notes:	*[1]16APSK 8/9 FEC;*	*[2]QPSK, .897 FEC*	*[3]QPSK, .793 FEC;* *[4]QPSK 6/7 FEC;* *[5]QPSK 4/5 FEC*
	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	1, 2, 4, 8, 16 (SCPC R: 2, 4, 8)
	Max Rate (Mcps)		7.5 Mcps	7.5Mcps (SCPC R: 15 Mcps)

Interfaces

SatCom Interfaces	TX Out: Type-F, 950–2000 MHz, Composite Power +5dBm/-35dBm RX In: Type-F, 950–2000 MHz, Composite Power 0dBm/-65dBm RX Out: Type-F, 950–2000 MHz Software controllable 10 MHz reference on TX Out
Available BUC Power (IFL)	+24V (Optional +48V supports up to 16W Ku-band or 20W C-band)
Available LNB Power (IFL)	+13V, +14V, +15V, +18V, +19V or +20V
Data Interfaces	LAN: Two 10/100 Console: Console connection RS-232: GPS input or Antenna Control Signaling 10 MHz: External reference clock (*future release*) USB: External media access (*future release*)
Protocols Supported	TCP, UDP, ICMP, IGMP, RIP v2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, cRTP, GRE
Security	AES Link Encryption (256-bit), TRANSEC (iNFINITI and S2 modes), FIPS 140-2 Level 2 Compliant (optional), 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 (star and mesh), Authentication, Antenna Control Interface (OpenAMIP)

Mechanical/Environmental

Size	Model e800: W 9.525 in x D 11.2 in x H 0.65 in (W 24.19 cm x D 28.45 cm x H 1.65 cm) Model e800-FIPSL2: W 9.525 in x D 11.2 in x H 0.79 in (W 24.19 cm x D 28.45 cm x H 2.01 cm)
Weight	Model e800: 1.3 lbs (0.59 Kg) Model e800-FIPSL2: 2.1 lbs (0.95 Kg)
Operational Temperature	-20° to +60°C (-4° to +140°F) at Sea Level -20° to +55°C (-4° to +131°F) at 10000 feet (3048m) *With proper thermal integration, refer to the electrical and mechanical specifications for detailed thermal guidance.*
Altitude	Operational: Up to 10,000 feet (3048m); Storage: up to 30,000 feet (9144m)
Relative Humidity	Max 95% with non-condensing humidity (operational) Max 100% with condensing humidity (storage)
Input Voltage	+24V or +48V DC
Certification	RoHS Compliant

* *SCPC Return can only be operated when using DVB-S2/ACM*
** *TPC not supported for use with DVB-S2 outbound in iDX 3.0 and above*

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