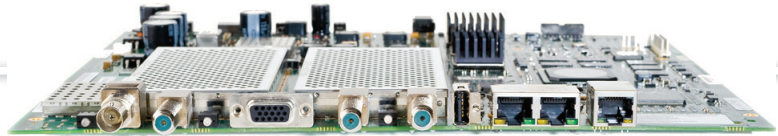


**iConnex e800**  
**Satellite Router Board**  
**Models e800, e800-FIPSL2**



iConnex e800 shown

**Configuration**

<b>Network Topology</b>	Star, Mesh and iSCPC		
<b>Modulation</b>	Downstream <u>DVB-S2/ACM</u> QPSK, 8PSK, 16APSK	Downstream <u>iNFINITI TDM</u> BPSK, QPSK, 8PSK	Upstream <u>D-TDMA or (SCPC Return*)</u> BPSKa, QPSK, 8PSK (BPSK, QPSK, 8PSK)
<b>FEC</b>	LDPC, 0.25–0.9	TPC, 0.431–0.879	TPC**, 0.431–0.793, 2D 16-State (2D 16-State)
<b>Maximum Carrier Rates</b>	Symbol Rate Info Rate Line Card IP Data Remote IP Data	45 Msps 150 Mbps <sup>1</sup> 149 Mbps <sup>1</sup> 38.5 Mbps <sup>1</sup>	15 Msps 21 Mbps <sup>2</sup> 20 Mbps <sup>2</sup> 17 Mbps <sup>3</sup>
			7.5 Msps (15 Msps) 12.8 Mbps <sup>4</sup> (24 Mbps <sup>5</sup> ) 11.1 Mbps <sup>4</sup> (20 Mbps <sup>5</sup> ) 11.1 Mbps <sup>4</sup> (20 Mbps <sup>5</sup> )
	<i>Notes: <sup>1</sup>116APSK 8/9 FEC; <sup>2</sup>QPSK, .897 FEC; <sup>3</sup>QPSK, .793 FEC; <sup>4</sup>QPSK 6/7 FEC; <sup>5</sup>QPSK 4/5 FEC</i>		
	<i>Maximum downstream and upstream data rates cannot be achieved simultaneously</i>		
	<i>Maximum rates are achieved with optimal configurations</i>		
<b>Spread Spectrum</b>	Spreading Factor Max Rate (Mcps)	2, 4 and 8 7.5 Mcps	1, 2, 4, 8, 16 (SCPC R: 2, 4, 8) 7.5 Mcps (SCPC R: 15 Mcps)

**Interfaces**

<b>SatCom Interfaces</b>	TX Out: Type-F, 950–2000 MHz, Composite Power +7dBm/-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 and RX In ports
<b>Available BUC Power (IFL)</b>	+24V (Optional +48V supports up to 16W Ku-band or 20W C-band)
<b>Available LNB Power (IFL)</b>	+13V, +14V, +15V, +18V, +19V or +20V
<b>Data Interfaces</b>	LAN: Two 10/100 Console: Console connection RS-232: GPS input or Antenna Control Signaling 10 MHz: External reference clock ( <i>future release</i> ) USB: External media access ( <i>future release</i> )
<b>Protocols Supported</b>	TCP, UDP, ICMP, IGMP, RIP v2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, cRTP and GRE
<b>Security</b>	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
<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 (star and mesh), Authentication, Antenna Control Interface (OpenAMIP)

**Mechanical/Environmental**

<b>Size</b>	W 9.525 in x D 11.2 in x H 0.6 in (W 24.19 cm x D 28.45 cm x H 1.52 cm)
<b>Weight</b>	Model e800: 1.3 lbs (0.59 Kg) Model e800-FIPSL2: 2.1 lbs (0.95 Kg)
<b>Operating Temperature</b>	-10° to +60°C (14° to +140°F) at Sea Level -10° to +55°C (14° to +131°F) at 10000 feet (3048m)
<b>Altitude</b>	Operational: Up to 10,000 feet (3048m); Storage: Up to 30,000 feet (9144m)
<b>Relative Humidity</b>	Max 95% with non-condensing humidity (operational) Max 100% with condensing humidity (storage)
<b>Input Voltage</b>	+24V or +48V DC
<b>Certification</b>	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
	*** Certification pending