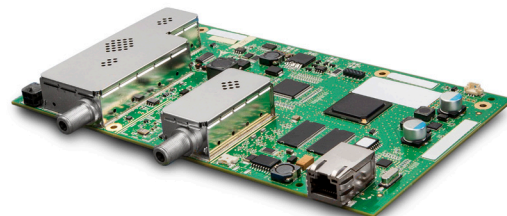


## e150 Satellite Router Board



The e150 Satellite Router Board is ideal for sensor applications. The remote features DVB-S2/ACM and Adaptive TDMA, basic routing, VLAN functionality, QoS and optional AES encryption. It includes spread spectrum, spread factor 2 for small antenna applications and transmit keyline control for BUCs that provide power management savings.

### Configuration

<b>Network Topology</b>	Star (DVB-S2/ACM downstream + Adaptive TDMA upstream)		
<b>Modulation</b>		<u>Downstream (DVB-S2)</u>	<u>Upstream (ATDMA)</u>
		QPSK, 8PSK, 16APSK, 32APSK	BPSK, QPSK, 8PSK
<b>Maximum Rates Supported</b>	Rate	Downstream (DVB-S2/ACM)	Upstream (ATDMA)
	Symbol rate	1-45 Msps	128 ksps - 4 Msps*
	Info rate	Up to 150 Mbps	Up to 10 Mbps*
	Remote IP data rate	Up to 76.3 Mbps	Up to 8.5 Mbps*
<b>Spread Spectrum</b>	Spreading Factor	2	
	Max Chip Rate	2 Mcps	
	The processing capability of an individual remote will be less than the stated maximum carrier size		
<b>FEC</b>	Downstream: LDPC, 1/4 - 8/9		
	Upstream: 2D 16-State, 1/2-6/7		
<b>E<sub>b</sub>/N<sub>0</sub></b>	For full list, please refer to the latest iDirect Link Budget Analysis Guide		

### Interfaces

<b>SatCom Interfaces</b>	TxIF: Type-F, 950-1700MHz, Composite Power -30dBm to 0dBm, 1dB step size RxIF: Type-F, 950-2150MHz, Composite Power -65dBm to -5dBm
<b>Available BUC Power (IFL)</b>	+24V, 36W max.
<b>Available LNB Power (IFL)</b>	+24V, 7W max., 22kHz tone
<b>Data Interfaces</b>	LAN: 10/100 Ethernet Web-based configuration via Ethernet port
<b>Protocols Supported</b>	TCP, UDP, ICMP, DHCP, Local DNS Caching, NAT/PAT*, cRTP*
<b>Security</b>	AES-256 Link Encryption* (optional)
<b>Traffic Engineering</b>	QoS (Priority Queuing, Strict Priority Queuing, WFQ); Application-based QoS; Configurable Packet Classifier; CIR (Static and Dynamic), Minimum CIR, Idle/Dormant Minimum IR
<b>Other Features</b>	Built-in Automatic Uplink Power Control, Frequency and Timing Control, Authentication, Remote Lock (to network), Transmit Keyline

### Mechanical/Environmental

<b>Size</b>	4.55" x 8.035" x .85"
<b>Weight</b>	0.45lb
<b>Operating Temperature</b>	-10° to 60°C (14° to 140°F) at sea level, 0° to 45°C (32° to 113°F) at 10000 feet (3048m) without thermal management <sup>1</sup>
<b>Humidity</b>	10%-90% non-condensing humidity
<b>Input Voltage</b>	+24VDC
<b>Heat Dissipation</b>	7W
<b>Certification</b>	FCC, CE and RoHS compliant <sup>2</sup>

<sup>1</sup> See e150 Integration Guide for thermal management guidelines

<sup>2</sup> Emissions certifications are provided by terminal integrators

\* iDX 3.3.0 and above