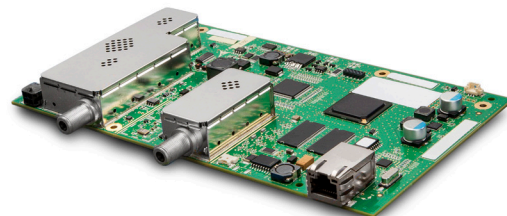


## e150 Satellite Router Board



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>         | TxF: Type-F, 950-1700MHz, Composite Power -30dBm to 0dBm, 1dB step size<br>RxF: 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<br>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