

## Wideband DVB-S2 SATCOM Modem

### Value Proposition

- All-digital software-defined modem
- Two channels of up to 5 Gbps full-duplex operation
- Operate independently or with XPIC for combined 10Gbps full-duplex rate
- Compatible with ETSI DVB-S2 Standard

### Applications

- HTS gateways
- Earth observation gateways
- High data rate point-to-point transponded satellite links



### **Wideband 10Gbps DVB-S2 SATCOM Modem**

Escape Communications' HDX-10G is a high-capacity, all-digital modem module designed for compatibility with the DVB-S2 SATCOM communications waveform standard.

The HDX-10G provides up to 5 Gbps full-duplex data link per channel using up to 32APSK modulation, and includes two modem channels that can either be operated independently or in Cross-Pol Interference Cancellation (XPIC) mode. The HDK-10G is completely software configurable, supporting a range of symbol rates and MODCOD formats. An embedded processor hosts management software providing comprehensive configuration control and status information over SNMP, web GUI interface or Telnet/SSH.

### **Features**

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|--|---|
| High data throughput up to 10 Gbps full duplex with two channels   | Independently configurable Tx and Rx IF center frequencies from 2 to 5 GHz            |
| Configurable modulation QPSK, 8PSK, 16APSK and 32APSK  | Two 10/100/1000BaseT management Ethernet interfaces with integrated layer 2 switching |
| Configurable LDPC FEC  | SNMP network management, HTTP web GUI and telnet/SSH also available                   |
| Configurable symbol rate (100 to 1100 Msym/s)  | Configurable for internal frequency source or external rear-panel GPS input           |
| Pulse shaping with roll-off factor 0.2   | 1RU 19 inch rackmount unit  |
| Optional Cross-Pol Interference Cancellation (coming Q2 2018)  | Designed for ultra-reliable operation (>10 year MTBF)                                 |
| 10GBASE-SR/LR 10 Gigabit Ethernet data interfaces (one per modem channel), with optional layer 3/4 encapsulation |   |