**SPECIFICATIONS**

**FREQUENCY RANGE**
7000 - 8500 MHz

**RF MODULATION**
BPSK / QPSK / OQPSK / 8PSK / 16APSK

**FORWARD ERROR CORRECTION**
LDPC/BCH/REED SOLOMON/CONVOLUTIONAL

**BANDWIDTH**
50 MHz

**PEAK THROUGHPUT**
Up to 25 Mbps

**INTERFACE OPTIONS**
1x Ethernet, 2x RS-422, 2x LVDS, Spacewire, 1PPS/clock

**TX POWER**
Up to +33 dBm, finely adjustable

**ANTENNA PORTS**
1 TX port SMA

**FREQUENCY ACCURACY**
+/- 1.5 ppm Max

**INPUT VOLTAGE**
9 - 34.6 VDC

**DC POWER CONSUMPTION**
- Standby: 4W Max
- Tx: 22W Max

**OPERATING TEMPERATURE**
-30 °C to +60 °C

**MASS**
< 300g

**DIMENSIONS**
90.4 mm x 98 mm x 62 mm

**ENVIRONMENTAL**
Pre-qualified to NASA GEVS shock/vibe

**RADIATION ENVIRONMENT**
10Krad TID

**LIFETIME**
3+ years, depending upon orbit

**ENCRYPTION**
AES-256 up & down, FIPS140-2 Level 1 available
Compatible with CryptoSWIFT-T1, KI-55, KI-103

**WAVEFORM / AIR INTERFACE**
CCSDS Standard

**APPLICATIONS**
SATCOM, SmallSats, UAVs, High Altitude Aircraft

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**DESCRIPTION**

The SWIFT-XTX is a X-band transmitter software defined radio that has one of the smallest size, weight and power form factors for its capabilities. With a wide array of electrical interfaces and AES encryption, the SWIFT-XTX is ideally suited to many different applications.