

TETHERS UNLIMITED, INC.

SWIFT-UTX[®]



SOFTWARE DEFINED RADIO UHF-BAND TRANSMITTER

SPECIFICATIONS

FREQUENCY RANGE

370-450 MHz

INPUT VOLTAGE

9 - 34.6 VDC

RF MODULATION

BPSK / QPSK / OQPSK / 8PSK / 16APSK

DC POWER CONSUMPTION

Standby: 4W Max
Tx: 48W Max

FORWARD ERROR CORRECTION

LDPC/BCH/REED SOLOMON/
CONVOLUTIONAL

OPERATING TEMPERATURE

-30 C to +60 °C

BANDWIDTH

5 MHz

MASS

< 300g

PEAK THROUGHPUT

3.33 Msym/s

DIMENSIONS

90.4 mm x 98 mm x 40 mm

INTERFACE OPTIONS

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

ENVIRONMENTAL

Pre-qualified to NASA GEVS shock/vibe

TX POWER

Up to 36.5 dBm

RADIATION ENVIRONMENT

10Krad TID

ANTENNA PORTS

1 TX port SMA

LIFETIME

3+ years, depending upon orbit

FREQUENCY ACCURACY

+/- 2 ppm Max

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



DESCRIPTION

The SWIFT-UTX is a UHF-band software defined transmitter 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-UTX is ideally suited to many different applications.



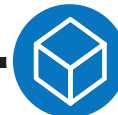
AS9100
Certified



Low
Power



Light
Weight



Small
Footprint



High
Performance