# SPECIFICATIONS

## Frequency Range
- Option 1: 24 - 27 GHz
- Option 2: 20.2 - 21.2 GHz

## 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 Waveguide

## Frequency Accuracy
+/- 1.5 ppm Max

## Waveform / Air Interface
CCSDS Standard

## 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 40 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

## Applications
SATCOM, SmallSats, UAVs, High Altitude Aircraft

## Description
The SWIFT-KTX is a Ka-band software defined radio 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-KTX is ideally suited to many different applications.