

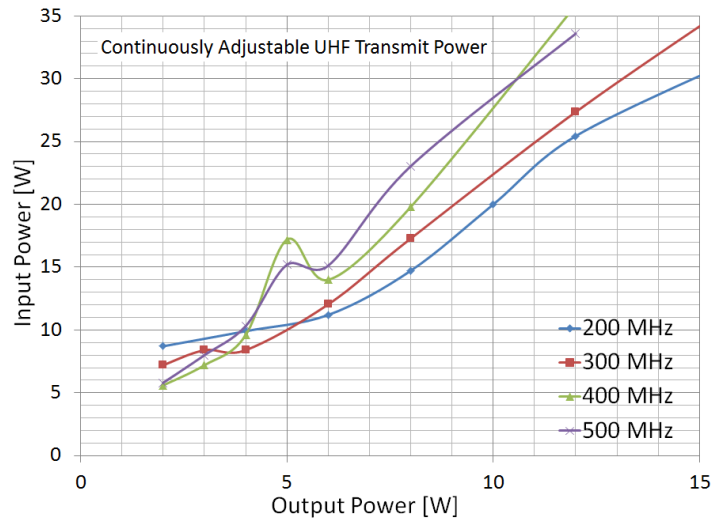
SWIFT-UTX is a re-programmable software defined UHF transceiver with frequency and waveform agility designed for high-performance UHF SATCOM and narrow or wideband TT&C applications.

Capabilities

SWIFT-UTX provides small satellites with a modular, high performance UHF communications solution. Designed to provide SATCOM services to UHF handheld radios, SWIFT-UTX can be used in both traditional narrowband applications as well newer wideband modes.

- >10W Tx w/ 10 MHz bandwidth
- Adjustable Tx power w/o losing efficiency
- 200-500 MHz Tx frequency coverage
- Dual independent receivers each w/ runtime switchable 50 kHz and 5 MHz bandwidth
- 200-500 MHz Rx frequency coverage
- Arbitrary waveform/modulation/coding
- 100% on-orbit re-programmable w/ failsafe boot modes

The SWIFT-UTX platform was designed specifically to provide tactical UHF SATCOM services to unmodified UHF handheld radios from small satellite platforms in LEO. The addition of a modular S-band transceiver frontend enables high-bandwidth crosslinks or up/down links in the same compact package.



Specifications

- >3 year LEO mission design life
- TRL 6+
- □ 86 x 30-mm (0.25U) (UTX+URX)
- □ 86 x 45-mm (0.25U) (UTX+URX+SLX)
- Flange or rail mounting options
- 6-36V unregulated input w/ integrated latch-up
- Scalable power consumption
 - 2.5W standby (1.5W option available)
 - +2.5W UHF receive (single-channel)
 - +7.5-40W UHF transmit

