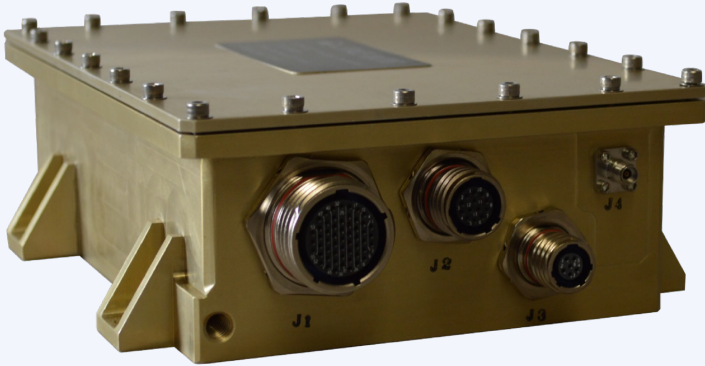


# μXTx-200™ WIDE BAND TRANSMITTER



μXTx-200™ Wide Band Transmitter is a highly reliable X-Band transmitter developed to meet the demanding radiation requirements of long-term space missions. Its high data rates — up to 3.5 Gbps — support advanced digital modulation schemes and the unit is available with multiple modulation and encoding options. The μXTx has flown on the NASA IRIS mission for over a decade.

## APPLICATIONS

- Mission Data Transmitter
- Long-term Space Missions
- Programs requiring high data rates

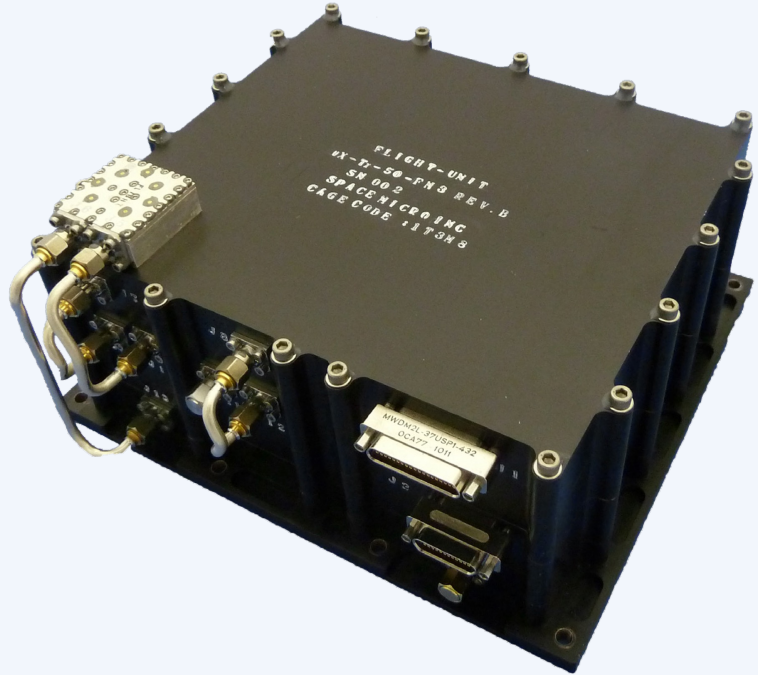
## KEY FEATURES

- Radiation Hardened Design
- Ruggedized for Launch and Deployment
- Convolutional Encoding, Standard
- Fully Re-Configurable On-Orbit
  - RF Frequency
  - RF Output Power
  - Data Rate/Modulation
  - Forward Error Correction On/Off

## SPECIFICATIONS: TRANSMITTER

<b>FREQUENCY</b>	8.025 GHz to 8.5 GHz (Frequency Agile)
<b>RF OUTPUT POWER</b>	1.4 W
<b>MODULATION FORMATS</b>	BPSK, QPSK OQPSK
<b>CHANNEL BANDWIDTH</b>	100 Hz - 10 MHz
<b>DATA RATE</b>	Up to 3.5 Gbps
<b>FEC</b>	Reed-Solomon LDPC 7/8 Serial Concatenated
<b>FREQUENCY ACCURACY</b>	±50 ppm
<b>PHASE NOISE NON-COHERENT MODE</b>	3° RMS Maximum
<b>SPURIOUS AND HARMONICS</b>	-60 to -50 dBc

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## SPECIFICATIONS: OTHER

<b>INTERFACES</b>	RS-422 RS-485 LVDS
<b>CONNECTORS</b>	SMA
<b>ENCRYPTION</b>	AES-256 FIPS 140-2 Supports Industry Standard External Encryption Units
<b>ENVIRONMENT</b> Temperature Range Vibration Parts Level Options Suitability	-24°C to +65°C Operational GSFC-STD-7000 (NASA GEVS) Acceptance Levels Commercial Space, NASA Levels 1, 2, 3 LEO, MEO, GEO
<b>SWAP</b> Dimensions Mass Power Consumption  Input Voltage	20.8 cm x 15.2 cm x 6.6 cm 2.3 kg 45 W (1.4 W Output Power) 60 W (5 W Output Power) 80 W (8 W Output Power) + 28 ±6 V DC