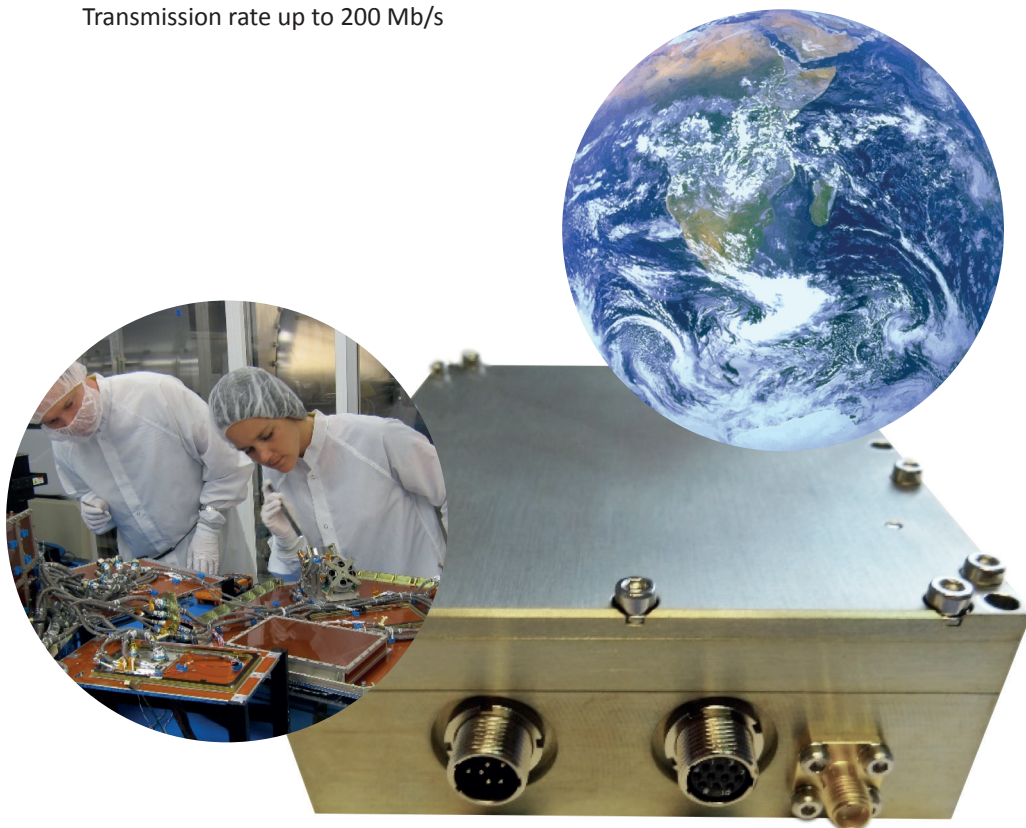




X-Band High-Speed Downlink Transmitter for Cubesats and Microsatellites

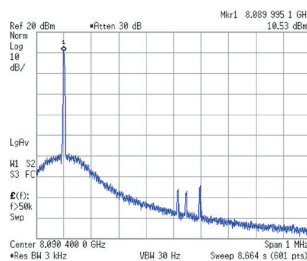
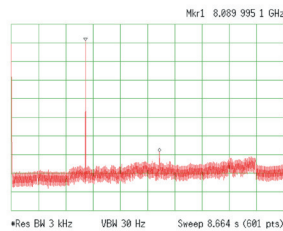
Transmission rate up to 200 Mb/s



We offer an efficient, compact and capable data downlink transmitter for nano- and microsatellite missions:

- High-speed data downlink capability
- Low DC electrical power requirement
- High PA power-added efficiency (PAE)
- GaN technology
- LVDS synchronous data interface
- Isolation to the VBUS power supply (microsatellite)
- Broad input voltage range
- Health data (temperature, current and RF power)
- Ultra low RF carrier phase noise
- Low harmonic and spurious spectral content
- No external RF filtering required
- Lightweight and compact

Power consumption:	typ. 10 W @Cubesat < 20 W @Microsat
Frequency:	8.0 – 8.4 GHz
Output RF power:	1-2 W @Cubesat 2-3 W @Microsat
Data rate:	up to 200 Mbit/s
Modulation type:	O-QPSK
RF carrier phase noise:	typ. -90 dBc/Hz
Harmonic rejection:	> 60 dBc
Frequency stability:	< 5 ppm
PA power efficiency:	> 30 %
Input VBUS voltage:	9-36 Vdc
Forward error correction:	CCSDS convolutional (option)
Data encoding:	Differential (option)
In-flight freq. adjustment:	Yes
Mass:	400 g @Cubesat 600 g @Microsat



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