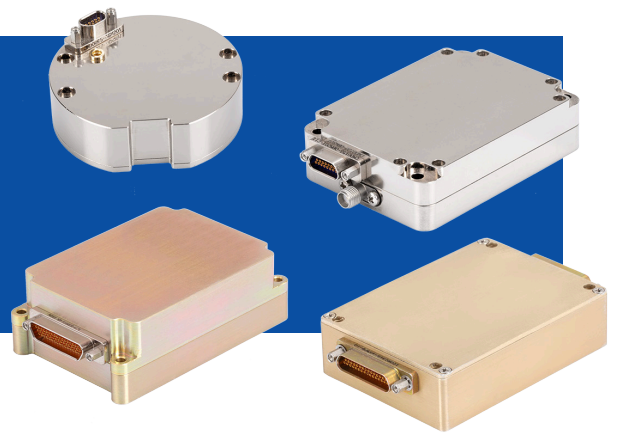


TELEMETRY TRANSMITTERS



GENERAL DESCRIPTION

TUALCOM aeronautical telemetry transmitters are ultra small flight test telemetry modules that are suitable for missiles, rockets and mini UAVs. Various RF output options are available for different range requirements.

IRIG-106 compatible SDR based units are capable of offering data encryption, FEC and randomizer optionally.

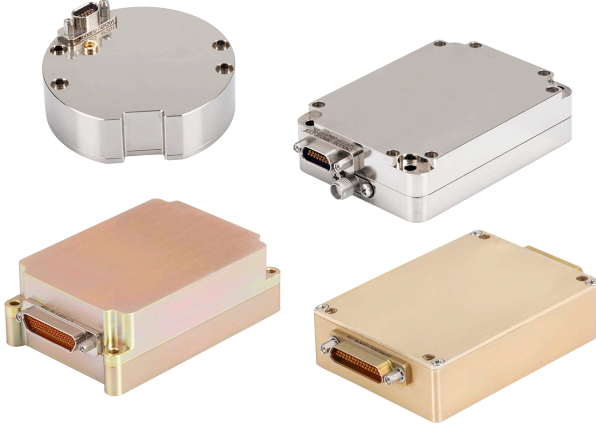
PCM/FM (Tier 0), SOQPSK-TG (Tier 1) and Multi-h CPM (Tier 2) type modulation waveforms are available. Data rate is configurable up to 20 Mbps with 1 kbps steps. Flexible architectures let systems be modified easily for higher data rates, different form factors and electrical characteristics for specific applications.

Transmitters have Data Acquisition and PCM Encoding option so that the users do not need extra DA unit when acquisition from Ethernet or serial port is required.

APPLICATION AREAS

- **Fixed/Rotary Wing Aircraft Development**
- **Space Launch Vehicles**
- **Guided Munition Development and Tests**
- **Flight Test and Instrumentation**
- **Unmanned Autonomous System Test and Development**

TELEMETRY TRANSMITTERS



Frequency Range
2.2 - 2.4 GHz

Data Rate
Up to 16 Mbps

Modulation Mode
PCM/FM, SOQPSK, SPM

Rf Output Power
1W, 2W, 5W, 10W, 20W

Dimensions (cm)
1W : 5.9 x 1.7 x 5.5
2W : 5.9 x 1.7 x 5.5
5W : 7.5 x 2.0 x 5.5
10W : 7.5 x 2.0 x 5.5
20W : 9.6 x 3.2 x 6.0

Weight (g)
1W / 2W : 75
5W : 160
10W : 160
20W : 410

Data Encryption (Optional)
AES 256

Data Interface
Ethernet, TTL, RS-422 / 485 / 232

FEC (Optional)
Reed Solomon (RS) and
Convolutional, LDPC

Nominal Power Consumption
1W : 350 mA @ 28 V
2W : 450 mA @ 28 V
5W : 1.1 A @ 28 V
10W : 1.4 A @ 28 V
20W : 2.8 A @ 28 V

KEY SPECIFICATIONS

- Low SWaP (Size, Weight and Power)
- Data Acquisition and
- PCM Encoding Option
- Power Efficient
- Ultra Compact Size
- Light Weight
- Various Output Power Options
- IRIG 106 Compatible
- MIL-STD-810 Compatible
- Support Data Encryption

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