

DIGITAL and ANALOG DATA ACQUISITION SYSTEM with TRANSMITTER

GENERAL DESCRIPTION

TUALADA-TX is an ultra compact, light weight airborne data acquisition system with embedded 2 W transmitter. The system is suitable for monitoring, development, service and certification testing applications. Ultra compact size and power efficient structure let the system be used in platforms with various sizes. Unit is suitable with IRIG 106, and also it has flexible software to be adapted for different applications.



DAQ with Transmitter

KEY SPECIFICATIONS

Up to 20 Mbps Data Rate
Power Efficient
Compact
Light Weight
FEC Option
AES 256 Option
IRIG-106 Compatible
MIL-STD-810 Compatible

SDR based units are capable of offering data encryption, FEC and randomizer as an option. PCM/FM, PSK and CPM 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.

TECHNICAL SPECIFICATIONS

Frequency Range	2.2 - 2.5 GHz
Data Rate	Up to 20 Mbps
Encoding and Modulation	PCM /FM, PSK, CPM
RF Output Power	2 W
Digital Inputs	Ethernet, RS 485, TTL 4 PT 100/TC
Analog Inputs	9 IPC 1 Pressure 4 ADC
Data Encryption (Optional)	AES 256
FEC	Reed Solomon (RS) and Convolutional, LDPC
Power Consumption	< 800 mA @ 28 V
Operating Temperature	-40 °C to +85 °C
Dimensions (cm)	7.5 x 5.5 x 2.8
Weight	120 g