



TELEMETRY RECEIVER

GENERAL DESCRIPTION

TUALRX is a compact telemetry receiver which operates in S Band, and it is suitable for various aerospace applications including, missile, rocket and UAV operations. Compact structure allows easy transportation and installation for field tests. Up to 20 Mbps data rates are supported.

IF BW can be configured or receiver can adjust the BW value depending on the bit rate. BER values are calculated with respect to PN15 bitstream and displayed on the interface software. Received data can also be transferred via RS-485 interface as telemetry stream, after or before decoding.

Received and decoded data is transferred via Ethernet interface and GUI is provided to display real time information on any computer.



Portable version of telemetry receiver integrated in a case with battery and built-in display, is also available for field deployment.



Receiver can also be integrated in tracking antenna system.



APPLICATION AREAS

- > UAV Communication
- > Fixed/Rotary Wing Aircraft Development
- > Space Launch Vehicles
- > Guided Munition Development and Tests
- > Flight Test and Instrumentation
- > Unmanned Autonomous System Test and Development
- > Video Link

TELEMETRY RECEIVER



Dimensions (cm)

9.8 x 6.1 x 3.6



Weight (g)

300



Frequency Range

2.2 - 2.4 GHz



Demodulation

PCM-FM, SOQPSK



Data Rate (Mbps)

Up to 20 Mbps



Input Voltage

18 - 32 VDC



Sensitivity (dBm)

<-83 dBm @ 20 Mbps
<-85 dBm @ 16 Mbps,
<-90 dBm @ 5 Mbps,
<-100 dBm @ 500 Kbps



Bit Decoding

NRZ, RNRZ-15, NRZ-M, NRZ-S, RZ,
Bi-Phase L, Bi-Phase M, Bi-Phase S



Power Consumption (W)

<5 W



Connector Type (RF)

SMA Female



Data Interfaces

Ethernet, RS-485



Operating Temperature

-40 °C to + 85 °C



Environmental Condition

MIL-STD-810G



Connector Type (Power&Data)


Micro-D 25-pin Socket

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