# TUALCOM

# TELEMETRY RECEIVER

## GENERAL DESCRIPTION

TUALRX receiver is a compact flight test telemetry system suitable for missile,rocket and UAV applications. TUALRX operates in S-Band. Compact structure allows easy transportation for field tests. Up to 16 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.

There is a Built-in Test Generator and an Internal Test Module for different data rates. IF spectrum indicator and telemetry quality indicator are available. Data is transferred via Ethernet interface and GUI is provided to display real time information on any computer.

Portable version of telemetry receiver with built-in display is also available for field deployment.

## 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**

**Input Voltage (V)**
18 - 32 VDC

**Power Consumption (W)**
5 W

**Frequency Range (GHz)**
2.2 - 2.4 GHz

**Demodulation**
PCM-FM

**Data Rate (Mbps)**
Up to 16 Mbps

**Sensitivity (dBm)**
<-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

**Connector Type (Power&Data)**
Micro-D 25-pin Socket

**Connector Type (RF)**
SMA Female

**Data Interface**
Ethernet

**Operating Temperature**
-40 °C to + 85 °C

**Environmental Condition**
MIL-STD-810G

**Dimensions (cm)**
9.8 x 6.1 x 3.6

**Weight (g)**
300

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