

TELEMETRY RECEIVER



GENERAL DESCRIPTION

TUALRX portable 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



TELEMETRY RECEIVER



Dimensions (cm)
8.2 x 6.1 x 3.6

Weight (g)
320

Power Consumption (w)
15 W

Data Interfaces
Ethernet, RS422

Operating Voltage
24 - 32 V

Frequency Range
2.2 - 2.4 GHz

Data Rate
Up to 16 Mbps

Demodulation
PCM-FM

Sensitivity
<-90dBm @ 5Mbps
<-100dBm @ 500Kbps

Connectors
SMA Female
Micro-D 15

Digital Connector
Micro-D 15

Operating Temperature
-40 C to +85 C

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

Environmental Condition
MIL-STD-810G

KEY SPECIFICATIONS

- Low SWaP (Size, Weight and Power)
- Software defined radio based receiver
- High sensitivity
- Up to 16 Mbps Data Rate
- Light weight
- Compact size
- Supports Data Encryption



TUALCOM ELEKTRON K A . .

+90 (312) 485 22 85

info@tualcom.com.tr

www.tualcom.com



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