

TELEMETRY RECEIVER

GENERAL DESCRIPTION

TUALRX portable receiver is a compact flight test telemetry system suitable for missile, rocket and UAV applications. TUALRX can be operated in S-Band and can be upgradable to the C band. Compact structure allows easy transportation for field tests. Up to 14 Mbps data rates are supported.



Telemetry Receiver

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.

KEY SPECIFICATIONS

Software defined radio based receiver
High sensitivity
Up to 14 Mbps Data Rate
Different demodulation types are supported
Light weight
Compact size

TECHNICAL SPECIFICATIONS

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|--------------------------|-----------------|
| Frequency Range* | 2.2 - 2.5 GHz |
| Data Rate | Up to 14 Mbps |
| Demodulation Mode | PCM/FM |
| Dynamic Range | 90 dB |
| RF Connector | SMA Female |
| Digital Connector | Micro-D 15 |
| Operating Power | 16 - 32 V |
| Power Consumption | 15 W |
| Dimensions (cm) | 8.2 x 6.1 x 3.6 |
| Weight | 315 g |

* Different frequency ranges are available up to 6 GHz.



Portable Telemetry Receiver