



PORTABLE TELEMETRY RECEIVER

GENERAL DESCRIPTION

TUALRX-S-PRT is a compact portable telemetry receiver system 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.

Portable telemetry receiver consists of telemetry receiver integrated in a case with battery and built-in display.

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.



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

PORTABLE TELEMETRY RECEIVER



Input Voltage (V)

100 - 240 VAC, 50/60 Hz, 1A



Operational Power Consumption From Battery (W)

100 - 240 VAC, 50/60 Hz, 1A



Battery Capacity (mAh)

10300 mAh



Frequency Range (GHz)

2.2 - 2.4 GHz



Demodulation

PCM-FM, SOQPSK



Data Rate (Mbps)

100 - 240 VAC, 50/60 Hz, 1A



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



Connector Type (Power In)

IEC320-C14



Data Rate (Mbps)

Up to 20 Mbps



Connector Type (RF)

SMA Female



LCD Display

12.1" TFT LCD Display



Touchscreen Resistive

Operating System Windows 10



Computer Ports

2 USB
2 Ethernet



TUALRX Data Interface Ethernet

Charging Temperature
0 °C to + 45 °C



Operating Temperature

-20 °C to + 60 °C



Environmental Conditions (Hard Case Closed)

IP67
STANAG 4280
MIL C-41501



Dimensions (cm,inch)

52.48 x 43.48 x 21.62 cm
20.66" x 17.12" x 8.51"

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