



ESM / ELINT RECEIVER

GENERAL DESCRIPTION

Compact ESM/ELINT Receiver receives radar signals across 2 GHz to 18 GHz spectrum and instantly generates Pulse Description Words including Frequency, Amplitude, Pulse Width, Time of Arrival, PRI etc. data to be transmitted over Gigabit Ethernet interface.

There is also LVDS interface for critical settings and telemetry data. There are 4 RF input channels which provide DF capability. Compact designs incorporate DFD and SDLVA blocks as well as signal processor board which generates PDWs in nanoseconds.

Signal processor is capable of generating more than 2 million PDWs per second. Switch multiplexer filters eliminate undesired bands for each input channel separately.

TUALCOM has ongoing projects utilizing superheterodyne receivers for a broader frequency range and DRFM-based solutions for various applications such as radar simulators, ECM, COMINT systems, etc.

KEY SPECIFICATIONS


- High Precision & High Resolution
- PDW Generation
- MIL-STD-810G / 461F Compatible
- Digital Filtering
- Excellent SwaP (Size/Weight/Power)
- Ultra Fast Response
- Integrated SwMux Filters


BENEFITS

- Low SWaP
- Suitable for deployment in small unmanned platforms
- Suitable for Stealth ELINT Missions
- ESM/ELINT drone for naval, land and air operations
- Ideal for miniature electronic support applications

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 **Dimensions (cm)**
41 x 26 x 7.5


 **Weight (g)**
8000


 **Frequency Band**
2-18 GHz


 **Instantaneous Bandwidth**
16 GHz


 **Frequency Sensitivity**
1 MHz


 **Frequency Precision**
 ≤ 3 MHz RMS

 **Dynamic Range**
65 dB (-55, +10 dBm)

 **Min. Pulse Width**
100 ns

 **Max. Pulse Width**
CW

 **Amplitude Precision**
3 dB RMS

 **Operating Power**
1.8 A @ 28 Vdc

 **Operating Temperature**
-40 °C To +80 °C

 **RF Connector**
SMA Female

 **Data Connector**
MIL-STD-38999

 **PW Precision**
10 ns

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