

Military Tactical SATCOM Jammer - Modular System High Output Power

MODEL EW1600
1200W Output Power/Band



* Photos for illustration purpose only

General Description

The EW1600 is a vehicle mounted very high power jammer designed for blocking satellite communication.

The EW1600 is using state-of-the art technology for maximum performance.

The unit is controlled by Microprocessor for DDS programming and uses unique modulation technique based on mixed signal for maximum jamming efficiency.

Each module of EW1600 transmits unique noise signal, which create a "firewall" between satellite and its receivers.

The jamming signal is being generated by Multi-VCO chain and DDS which results very high sweeping rate along the bands hence create high RF density in each part of protected frequency band.

Jamming distance of EW1600 depends on several conditions such as antenna angle to receiver, transmitter and output power, distance to receiver etc. System modularity allows flexible usage in different applications.

The system supports simultaneously jamming of 5 bands.

The system uses Broadband Directional Antennas for selective jamming area.

Applications

- Special Military Units
- Special Police Units
- Government Agencies

System Features

Systems have 3 modes of operation:

1. **Sweep Mode**

In this mode the *EW1600* Jam the whole frequency bands at an ultra-fast speed continuous sweeping.

2. **Spot Mode**

In this mode the *EW1600* Jam simultaneously up to 8 frequencies from the same or different band(s).

3. **Band Specific**

In this mode the *EW1600* Jam specific band or bands from the 5 available bands.

- Designed to block satellite communication
- Output power up to 1,200W per band
- Modules of Jammer operates separated
- Separate switch ON/OFF and switch Operation Modes
- Remote control by PC
- Specific signal source per band for maximum jamming efficiency

Technical Specifications

RF Characteristics	
Output Power	3 x 1,200W / Optional 2 x 500W
Jamming Range	Depend on field conditions
Internal Modulation	FM Hopping / Sweep + White Noise
Signal Source	DDS
Power Supply	110/220VAC or 48 VDC
Sweep Rate	Fixed
Power Consumption	10KW
Modules Per Unit	Up to 5
Remote Control	Programming, ON/OFF & Modes Via PC
Antennas	Directional Antennas
Power Amplifier Protectors	Full VSWR protector Over Heat – Thermal protector Over Current protector
Jamming Frequency Range	
Frequency Band	L1 Band – 1.565–1.585 GHz L2 Band – 1.216–1.236 GHz L5 Band – 1.150-1.200 GHz
Air Interface Standards	Satellite Communication
Physical Data	
Dimensions	500 x 430 x 348 mm - 19" x 8U (Up to 5 Racks not including PS)
Weight	Approx. 500Kg
Environment of operation	
Operating Temp	-40°C - +65°C
Humidity	5% - 80%
Optional Accessories	
Backup Battery	Yes
Electric Generator	220VAC / 8KVA
Control Cable Via PC	TCP/IP
DC-DC Converter	Internal

*Specifications are subject to change without prior notice

Output Power Division

Frequency Band	Output Power Watts
L1 Band 1.565 – 1.585 GHz	1,200
L2 Band 1.216 – 1.236 GHz	1,200
L5 Band 1.150 - 1.200 GHz	1,200
Future Band – Reserved	500
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Output Power Control

The user can control the output power of each band easily by using the Programming Software.

The system can be programmed to transmit from 50W and up to 1,200W per band.

After programming the required output power, the system store the parameters so in the next operation the user do not have to repeat again unless he wish to set the output power to a different level.

System Components

- Digital 5 bands exciter & Power Amplifiers
- External High Gain Directional Antennas
- CPU – Central Processing Unit
- GUI – Graphical User Interface
- 8.5 GHz Spectrum Analyzer
- Electric Generator and Backup Batteries