

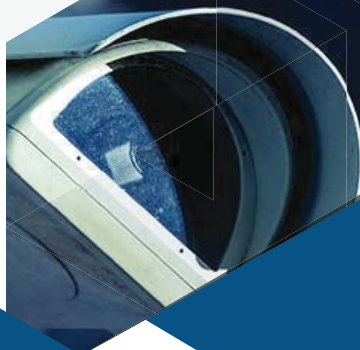
e4i **communication**

EXPERIENCE THE DIFFERENCE
YOUR SECURITY & SAFETY PRODUCTS

MILITARY TACTICAL JAMMER
MODULAR SYSTEM HIGH OUTPUT POWER
MODEL MT-JAM1200 1200W Output Power/Band



JAMMING RANGE
UP TO 100KM



GENERAL DESCRIPTION

The MT-JAM1200 is a vehicle mounted very high power jammer designed for blocking satellite communication.

The MT-JAM1200 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 MT-JAM1200 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 MT-JAM1200 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.



APPLICATION

- Special Military Units
- Special Police Units
- Government Agencies



SYSTEM FEATURES

Systems have 3 modes of operation:

1. Sweep Mode

In this mode the MT-JAM1200 Jam the whole frequency bands at an ultra-fast speed continuous sweeping.

2. Spot Mode

In this mode the MT-JAM1200 Jam simultaneously up to 8 frequencies from the same or different band(s).

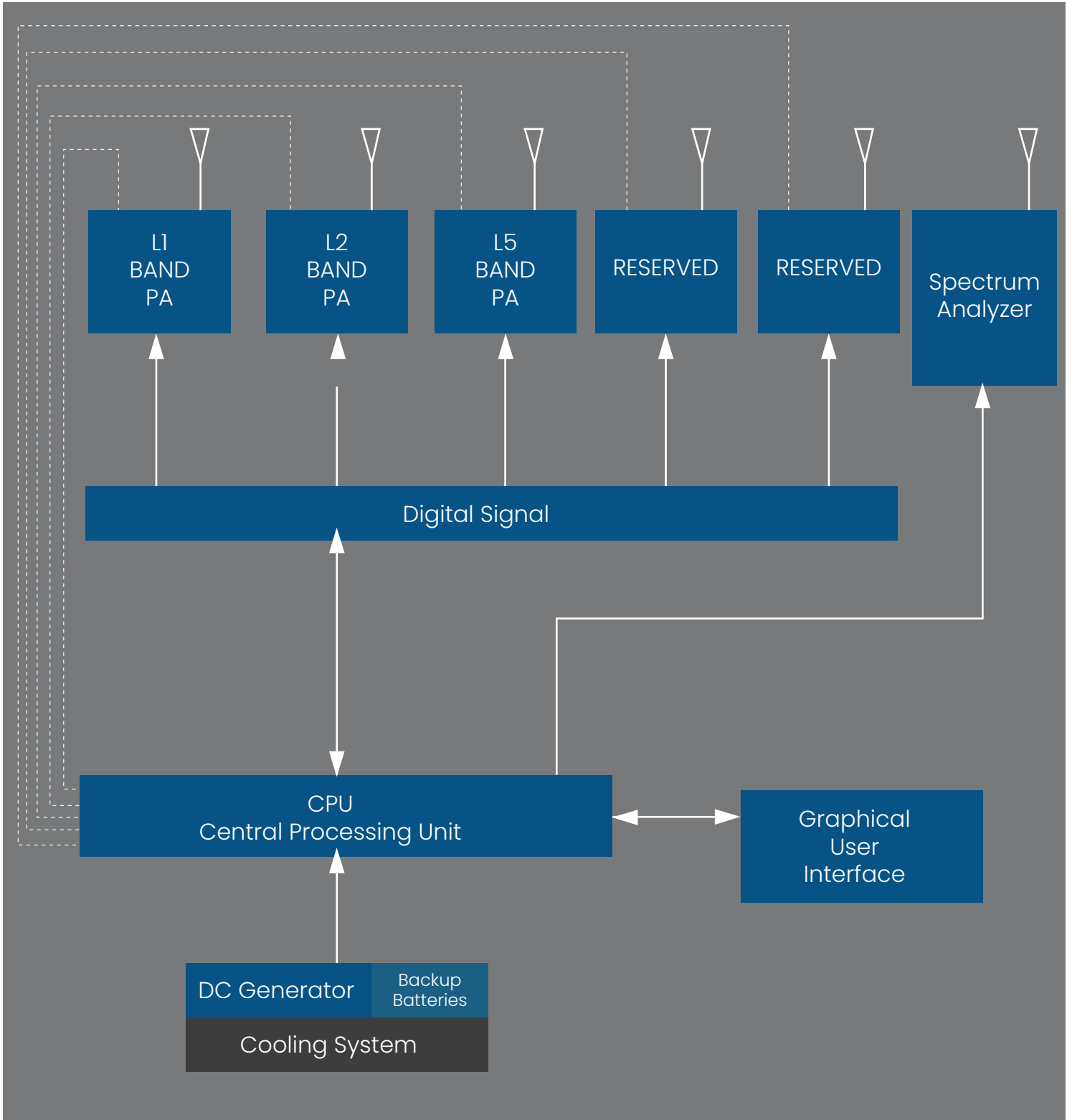
3. Band Specific

In this mode the MT-JAM1200 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



SYSTEM BLOCK DIAGRAM



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	500x430x348 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
DGDCCConverter	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
Future Band - Reserved	500

OUTPUT POWER CONTROL

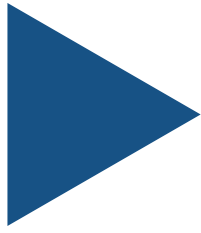
The user can control the output power of each band easily by using the Programming Software.

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



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