GERGEDAN™
VIP CONVOY PROTECTION RCIED JAMMER SYSTEM
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ASELSAN GERGEDAN™ RCIED Jammer System (Vehicle Type) is designed to protect convoys, VIP vehicles in motion and static infrastructure (e.g. high value assets, checkpoints, etc.) against Radio Frequency (RF) Controlled Improvised Explosive Devices (RCIEDs), by jamming the communication between these devices and threats.

With utilization of modular multi-band RF transmitter and digital frequency synthesis techniques, the software defined jammer creates effective radio frequency interference to prevent triggering of RCIEDs. The sophisticated algorithms in GERGEDAN™ allow each output channel of the system to jam multiple RCIED radios simultaneously. GERGEDAN™ models provide continuous frequency coverage, which means that there are no gaps in the spectrum where a RCIED cannot be countered.

The programmability features of GERGEDAN™ provide the user with utmost customization flexibility to specific operational and tactical requirements. User defined “jamming profile” includes setting of numerous jammed frequency bands and output power levels for simultaneous jamming of multiple threats. New jammer waveforms can quickly and easily be added to counter new RCIED threats and that a jammer waveform can be optimised to more effectively counter high-risk RCIED threats.

GERGEDAN™ is a vehicle-independent system. It can be conveniently installed on any type of vehicle (e.g. SUV sized vehicles, military trucks, etc.) and easily transferred from a vehicle to another. The same unit can be configured to various roles, such as protection of convoys, VIP vehicles and static infrastructure.

Technical Specifications

- Frequency Coverage: Configured and prioritized according to customer requirements
- Application Type: Convoy Protection / VIP Vehicle Protection Static Infrastructure Protection
- Multiple Jamming Profiles: Over 100
- Jamming Type: DDS-Based FPGA-Controlled Swept Jamming
- Antenna Type: Omni-Directional Antennas Camouflaged VIP Antenna Option
- Power Source: Vehicle Alternator / Batteries
- Weight: < 60 kg (Jammer Box)
- Operation Time: > 1 hour (From Batteries)
- Continuous Operation with Additional Vehicle Alternator
- Operating Temperature: -30 °C ; +50 °C
- Storage Temperature: -40 °C ; +60 °C
- Other Environmental: Rugged Design, Compatible with MIL-STD 810 Conditions standards (Humidity, Rain, Dust, Shock, Vibration)

Basic Features

- Effective protection against radio, GSM, 4G, 5G controlled threats
- Single Unit Full Band Coverage in a Small Form Factor
- High Efficiency Multi-Band Power Amplifiers
- Fully Programmable State-of-Art Digital Frequency Synthesizer
- Built-in VSWR Protection
- Built-in Test Feature
- Control and Monitor of the System by the Remote Control Unit
- Compact System Architecture
- All critical components designed and manufactured by ASELSAN