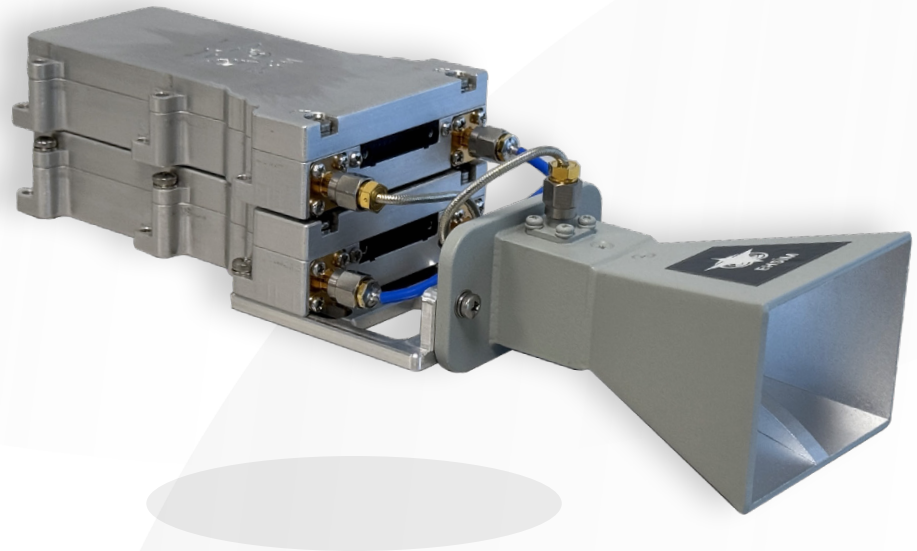
JNN

JAMMER INTEGRATED NULLIFICATION NODE



The Compact DRFM-Based Stand-in Jamming System is an advanced technological solution developed to disrupt and deceive enemy radars. With its compact, reliable, and versatile design, it is specifically designed for threats requiring high-performance jamming.

Stand-in Jamming, is an electronic warfare (EW) concept used to neutralize enemy radar or sensor systems. This method involves deploying low-detectability platforms in close proximity to the threat area to jam target systems. Operating near enemy radars, the stand-in jammer provides highly effective jamming with low power consumption. Compared to large-area EW platforms, it offers advantages such as energy efficiency and direct deception or obstruction.

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Compact and Lightweight Design

Mobile and Fixed Operation

Wireless and Automated Control Capability

DRFM-Based Jamming

Real-Time Signal Processing: Accurate sampling of received radar signals.
High-Precision Signal Generation: Produces deceptive jamming signals that mimic or modulate original radar waveforms.
Advanced Techniques: Implements techniques such as Range Gate Pull-Off (RGPO), Velocity Gate Pull-Off (VGPO), Multiple False Targets (MRFT), and Intelligent Noise Jamming

Wide Frequency Band Coverage

Adaptability: Operates across a broad spectrum against different radar systems.
Dynamic Adjustment: Detects and responds to radar signals in real time.

Low Power Consumption

High Efficiency: Ensures extended operation with a low power budget on integrated platform.
Optimization: Energy-saving algorithms provide high jamming efficiency.

Covert Operation

Low Signal Emission: Miniature design and low-output power to avoid detection by radars and their Electronic Counter-Countermeasures (ECCM).
Directional Jamming: Directional transmission minimizes exposure to unintended receivers.

Countermeasure Techniques

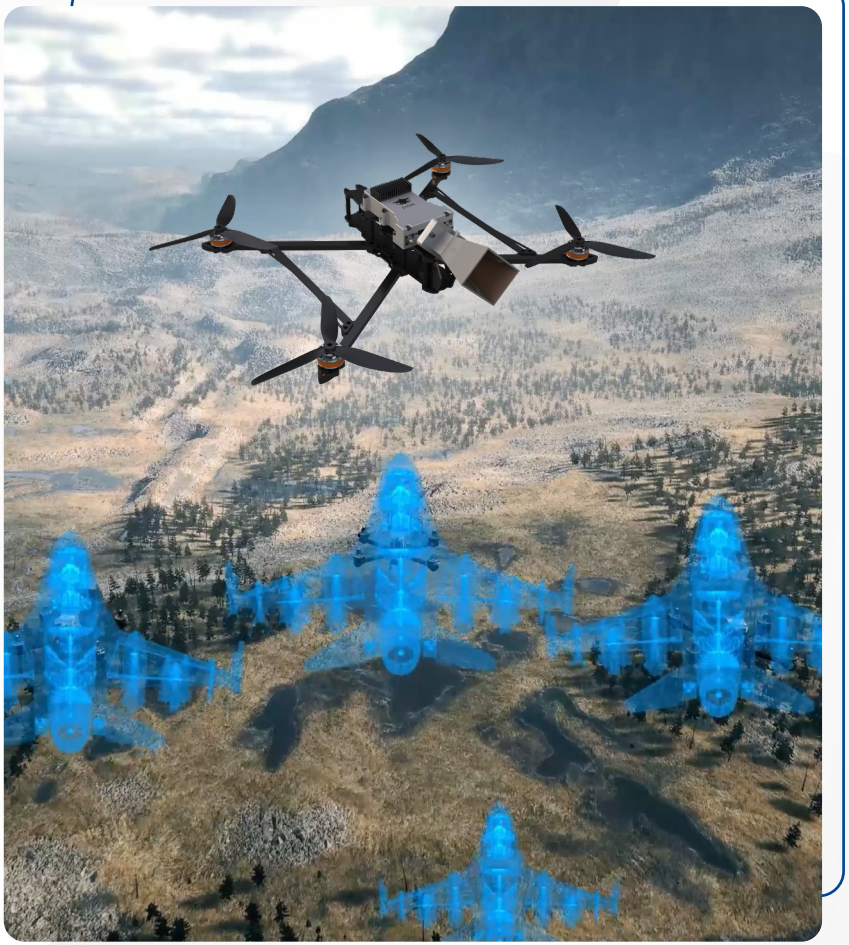
Deceptive Jamming: Implements deception on range, velocity, and position in radar detection.
Barrage Jamming: Disrupts radar receivers by filling their operating bandwidth with noise.
Side Lobe Jamming: Enables jamming by exploiting radar side lobes.
Ghost Target Generation: Creates multiple false targets on radar screens to deceive or distract radars.

Integration and Control

Plug-and-Play: Rapid integration onto various drone platforms.
Remote Control: Operable via ground stations or flight control systems.

Application Areas

Military Operations: Counter-surveillance and anti-drone missions.
Security Enhancement: Protection of critical assets from enemy radars.



Frequency Band:	Wideband coverage
Payload Power Consumption:	<80 W