



**SMART
AND TO THE
POINT.**

DIGITAL SHARK™

Digital ECM System

Latest Generation AESA ECM

DIGITAL SHARK™ is an advanced Electronic Countermeasure (ECM) system utilizing Active Electronically Scanned Array (AESA) architecture, designed to simultaneously deceive and suppress multiple threats from different directions.

The system comprises a modern wide open digital receiver and advanced multi-channel DRFM (Digital Radio Frequency Memory) capable of instantaneous analysis and autonomous reaction to modern RF threats.

DIGITAL SHARK uses the latest liquid cooled Gallium Nitride (GaN) solid state amplifiers to generate multiple high-power beams, significantly overpowering adversary emitter signal and thus enabling effective suppression and protection of platforms ranging from OPVs to destroyers.

DIGITAL SHARK sets new standards in Naval ECM, enabling suppression and deception of all types of airborne, surface radars and missile seekers.

DIGITAL SHARK can be used in land installation configuration as a complementary effector within integrated air defense systems, enabling early detection, tracking and suppressing of all types of RF sensors.

Benefits

- ESM Functionality Supports Standalone Operation
- 100% Probability of Intercept for multiple threats
- Instantaneous and autonomous operation
- AESA design handling simultaneous threats
- Integrated wide-band DRFM
- Full ESM capability inside
- Highly-reliable liquid cooled design
- Modular system with growth potential
- Suitable for naval and land installation



Operational Value

For naval combat platforms, DIGITAL SHARK offers an effective anti-ship missile defense layer, by providing autonomous reaction with extremely short latency, preceding any other defense layer and enabling effective defense against the fastest threats, complementing other defense layers, such as hard-kill and off-board decoys.

DIGITAL SHARK can be used as a complementary sensor and effector for mobile air defense systems, by enabling early detection, suppression and deception of a variety of airborne sensors. The system can be mounted on a vehicle, as a fixed staring array, or with a pedestal, allowing for flexibility in operation.

DIGITAL SHARK can also be provided in a modular 20-foot mission module container configuration, bringing significant mission value with no integration effort.

Operated locally or remotely by a single operator, and integrated with autonomous reaction capabilities, DIGITAL SHARK brings tremendous operational value and provides a powerful spectrum dominance capability in the ever-evolving battlefield.



Main Capabilities

- DRFM-based fast coherent and accurate frequency set-on
- Active Electronically Scanned Array (AESA) Transmitters
- Efficient power management
- High Effective Radiated Power (ERP)
- Advanced trackers and technique generators



Technical Specifications

Sensitivity	Better than -65 dBmi
Frequency coverage	6-18 GHz 2-40 GHz (Optional)
DRFM Channels	Multiple
Probability of Intercept	100%
ERP	80 dBmi
Coherent and non-coherent techniques	RGPO/I, VGPO/I, false targets, AM modulation, various noise and spoofing techniques



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