L3HARRIS®
FAST. FORWARD.

RASOR™

Rapidly Adaptable Standards-compliant Open Radio. Scalable architecture for agile combat employment.

L3Harris' new Modular Open Systems Approach (MOSA) solution provides flexible architecture to enable forces to quickly scale and enhance multi-mission communications. RASOR delivers next-generation JADC2-enabling capabilities, providing greater interoperability and flexibility. It aligns to U.S. DoD and industry standards and promotes significant cost savings. RASOR makes the joint force more lethal and effective.

PRODUCT DESCRIPTION

The RASOR ecosystem is easily adaptable to meet specific platform needs. RASOR enables multi-mission operations in a single platform, across hosted waveforms. Units can be expanded from 3 to 12 modules and daisy-chained to increase capabilities. Reconfigurable through software updates without hardware redesign, RASOR decreases complexity and expedites deployment.

The unit configures and achieves mission requirements across previously disparate capabilities. Processing capabilities include data links (ISR, C2, Voice, Sensor), electronic warfare, mission processing, and security.

RASOR boasts industry-leading communications security, including cryptography, cross-domain, and multi-level security, and maintains a strong relationship with the National Security Agency.

The unit leverages our Dynamic Software Capability Orchestrator (DSCO™) to seamlessly incorporate first and third-party capabilities into a robust ecosystem.

5-Slot Chassis

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Open and scalable for the warfighter, enabling rapid insertion of secure capabilities

KEY FEATURES

Rapidly Adaptable

- Scalable hardware from three to twelve slots; innovative manufacturing design drastically reduces lead times
- Rapidly insert new capabilities utilizing open-source software architecture and tools, to include Dockers and Kubernetes

Standards-compliant

- Compliant to major US DoD open system specifications and industry specifications
- Aligned to the SOSA 1.0 technical standard

Open Radio

- Intentionally built for third-party integration through software development kits (SDKs) and open-source tools
- Dynamic Software Capability Orchestrator (DSCO™) seamlessly integrates first and third-party capabilities to achieve a unified ecosystem

SPECIFICATIONS (PRELIMINARY)

HARDWARE

Chassis:

Rapidly Adaptable Ruggedized Enclosure (RARE™)

> Extendable from three to twelve slots

> Typical five slot configuration:

- Size: 7.6" (w) x 13.9" (l) x 9.5" (h)
- Weight: 18 lb unpopulated; <28 lb fully populated
- Power: Configuration dependent

MODULES

	FUNCTION	STANDARD
Power Supply	Power	SOSA aligned, VITA 62 compliant
Single Board Computer	Processing	14.6.11
MAVRIC	RF SoC	14.6.11-4
Global Lightening Transciever Module (GLXM)	RF SOC for commercial satellite internet	14.6.11-4
SOSA Aligned Modem Module (SAMM)	Software Defined Modem	14.6.11-4
RASOR Network Processor (RNP)	Processing, data at rest (DAR), storage	14.6.11-4
Network Switch	40 Gbps data plane 10 Gbps control plane	14.8.7

SKILLS

Communications (LOS and BLOS capable)

> BE-CDL mode 101–105 up to 45M

> DVBS2X

> Advanced Tactical Data Link (ATDL) 1.0

> Protected Tactical Waveform (PTW)

> meshOne

> MARS (Modular All Domain Radio System - HMS capabilities)

> Inquire about additional capabilities

- Commercial satellite internet (multiple)
- Mobile Adhoc Network (MANET)
- Tactical data links
- Mission processing

Services

> Encryption

- Type-1
- AES
- HAIPE

> Cross Domain Solution (CDS) and MUltiple Level Security (MLS)

> Dynamic Software Capability Orchestrator (DSCO™)

8-Slot Chassis

RASOR

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