

# MAKO 2 CMOSS ELECTRONIC COUNTERMEASURES (ECM)

SOSA aligned, CMOSS compliant, 3U VPX form factor

The L3Harris Mako 2 uses state-of-the-art technologies for allowing customers to execute their ECM missions to keep military warfighters safe. It is based upon open standards such as sensor open systems architecture (SOSA) and CMOSS (Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance, and Reconnaissance/ Electronic Warfare [C5ISR/EW] Modular Open Suite of Standards) which allows the product to be installed in any CMOSS-compliant chassis and avoids the government from experiencing “vendor lock in.”

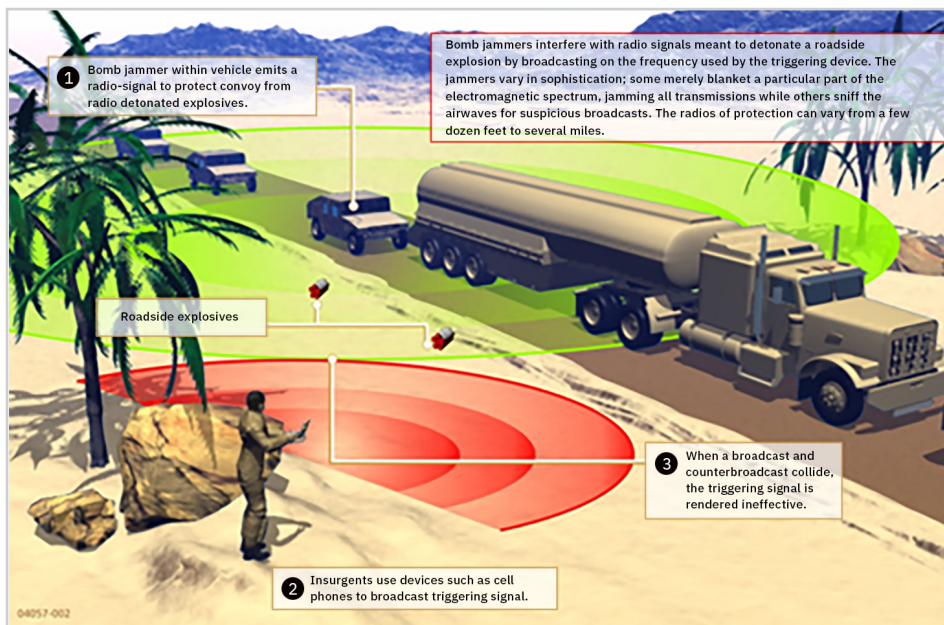
## ECM CAPABILITY

Mako 2 is a software-defined radio in a 3U VPX (Vita 46) form factor providing mature and effective Controlled Improvised Explosive Device (C-RCIED) Electronic Warfare (CREW) capability. The module supports up to 4 transmit and 4 receive channels with greater than 200 MHz each of instantaneous bandwidth (IBW) with capabilities of 800+ megahertz of receive IBW and 2+ gigahertz of transmit IBW using active techniques that can be tuned across the band of interest.

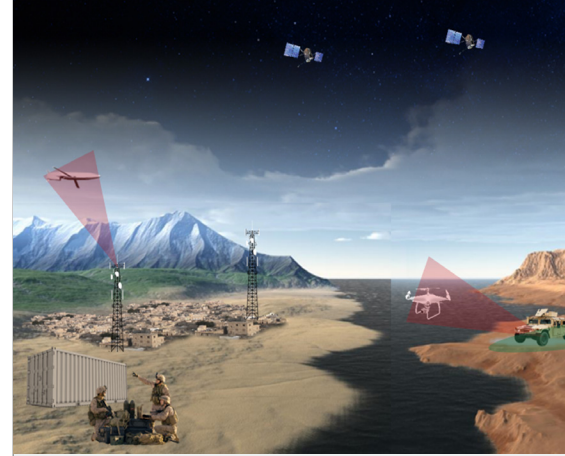
## SOSA ALIGNED

Mako 2 aligns with SOSA technical standards for compatibility with expandable, modular, and frequency agile platforms. Mako 2 is interoperable with:

- > CMOSS utilizing a 3U VPX form factor and standard slot profile
- > MORA (modular open radio frequency architecture) controls plug-in cards and radioheads
- > VICTORY (Vehicle Integration for C5ISR/EW Interoperability) for position, navigation and timing

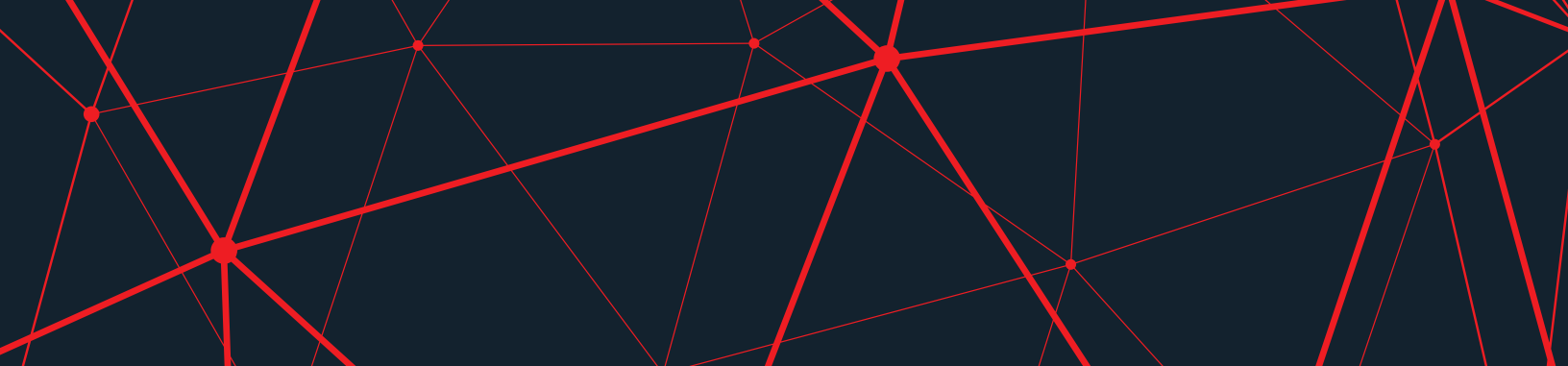


Mako 2 enables ECM capability in reconfigurable platforms spanning many deployment scenarios.



## BENEFITS:

- > Provides mature and effective EA/ES capability for CREW and CUAS countermeasures
- > Open techniques platforms to develop new techniques for emerging threats
- > Compatible with digital radio heads using open protocols
- > Compatible with third-party techniques and waveforms



### TECHNOLOGY SUPPORTED

Programmable for any in-band signal type

### TECHNIQUE CAPABILITIES

Digital RF Memories (DRFMs) with programmable modulation

Arbitrary waveform playback for pre-computed waveforms

Spectral FFT-based processing to counter agile threats

Modulated active signal sources (active time share)

Reactive digital synthesizer arrays

Software defined technique assignment to any available RF channel

Spectral logging for real-time feedback of technique activity to L3Harris Smart Response Manager

### INTEROPERABILITY

SOSA snapshot 3 aligned

CMOSS, MORA, VICTORY interoperability

Operates within CMOSS, SOSA Aligned chassis

### PHYSICAL SPECIFICATIONS

Form factor: 3U VPX

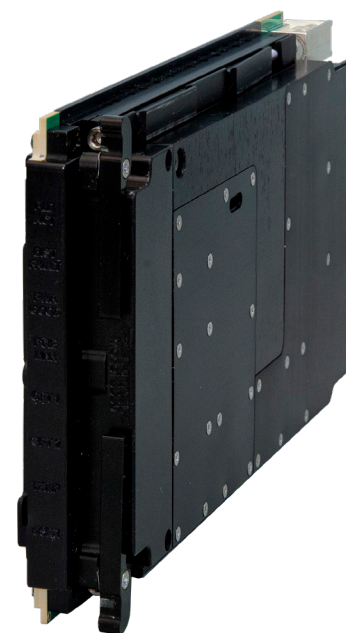
Housing: conduction-cooled

Payload profile: SLT3-PAY-1F1U1S1S1U2F1H-14.6.11-4

Weight: 1.5 lbs (estimate)

Power consumption: 55 W

Operational temperature: -40°C to +70°C



#### Mako 2 CMOSS Electronic Counter Measures (ECM)

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