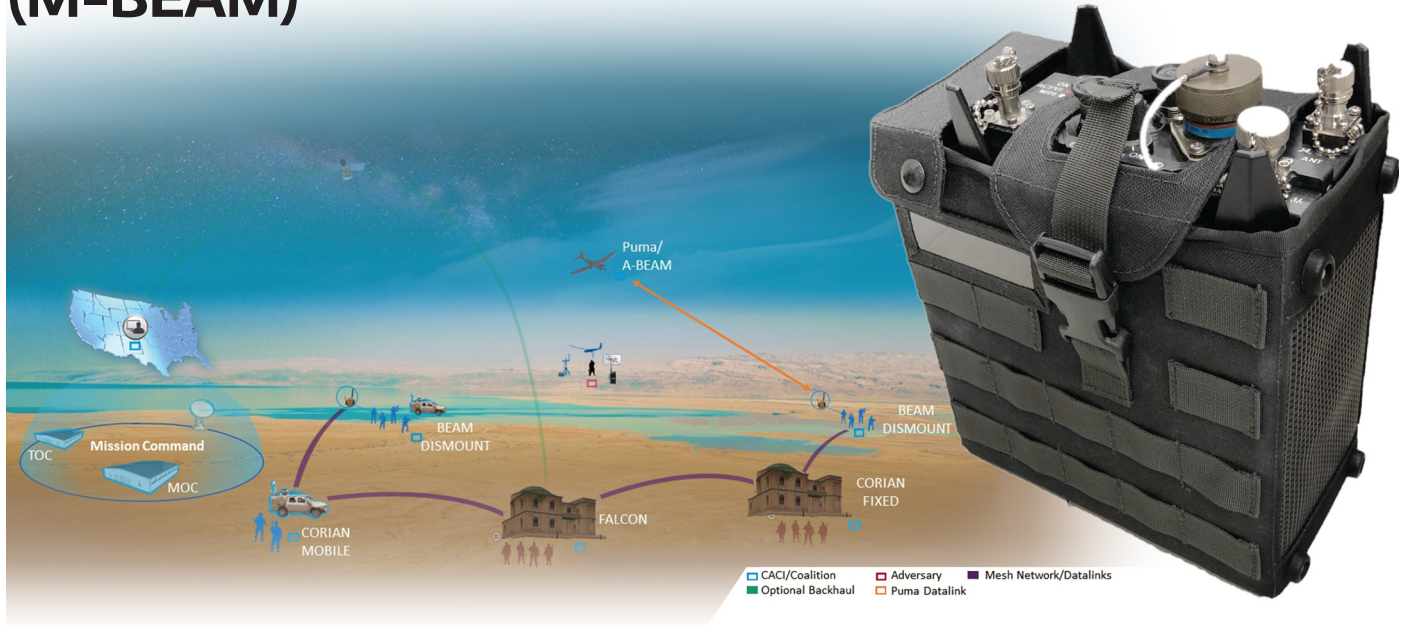


BEAM™ 3.0

Mono Backpackable Electronic Attack Module (M-BEAM)



CACI's BEAM™ 3.0 (M-BEAM) is a low size, weight, and power (SWaP) dismount man-packable advanced electronic attack system that is ideal for countering complex small unmanned aircraft systems (sUAS) and other targets in a coordinated fashion. BEAM 3.0 can detect, identify, locate, and attack the most sophisticated modern drones and associated communication devices. A single BEAM 3.0 can defeat a wide bandwidth signal with its instantaneous 200 MHz transmit bandwidth. BEAM 3.0 surveys the environment to enable deployed units to counter adversary sUAS, range extenders, cellular communications, digital or analog push-to-talk radios, data links, WiFi, Mode-S/ADS-B, Bluetooth, and digital or analog video signals. The BEAM 3.0 system can operate independently for electronic warfare support (ES) and electronic attack (EA).

Benefits

- Cross-layer cognitive mission management tool enables intelligent coordination within a cluster
- Allows local control by mission operators or via external command and control channels
- Self-healing, mobile ad hoc network (MANet) automatically adapts to disconnected, intermittent, and limited (DIL) operations to maintain mission
- Open architecture enables rapid development of new capabilities

For more information, contact

Joe Yagloski
FEWS/BEAM PM
(703) 707-1243
joseph.yagloski@caci.com

Roy Radcliffe
BEAM PM
(703) 707-1266
rradcliffe@caci.com

Phil Pitsky
C-UAS BD
(202) 603-1701
phillip.pitsky@caci.com

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M-BEAM: Versatile Dismount EA/C-sUAS

Capabilities

- Supports setting theater, unit, and commander situational awareness, and enables rapid targeting (Phase 0/Phase 1)
- Provides electronic warfare (EW) support for offensive/defensive operations (Phase 2/Phase 3)
- Supports movement to contact, environmental reconnaissance, and mobile raid operations (Phase 2/Phase 3)
- Able to operate in a disconnected, degraded, intermittent, and/or limited bandwidth environment (Phase 2/Phase 3)

Features

- Improves environmental reconnaissance and supports fire networks for counter-signal and counter-sUAS missions
- Agile, modular architecture easily integrates with other systems
- USB control and commercial-off-the-shelf mobile ad hoc network interfaces enable speed and ease of use
- Open framework Android Tactical Assault Kit (ATAK) user interface
- Designed to meet the rugged tactical and environmental demand of dismounted and on-the-move missions

Specifications

- Part Number: ASY00782-01
- CPU: Intel® Xeon® E-2176M 64 GB RAM, 2.7GHz up to 4.4 GHz hexa-core with hyperthreading, 512 GB SSD storage
- Four-channel phase coherent software-defined radio, 1MHz to 6 GHz tuning range, 200 MHz maximum transmit and receive bandwidth, omnidirectional antennas included
- Primary transmit and receive frequency range: 100MHz-6 GHz, DF array receives 400 MHz-6 GHz
- Integrated DCOXO 72-channel Global Navigation Satellite System (GNSS) receiver, <10 nanosecond to UTC RMS (1-Sigma) GPS locked with antenna included
- Power source: +24 Volt DC external batteries or AC/DC power supply included (recommended batteries: BB-2590/U, 10.3 AH)
- DC power range: +20 to +36 Volt DC input voltage range
- Battery life: 5.5+ hours estimated endurance, based on mission and other conditions
- Interfaces: 1x input DC power, MIL-circular; 1x 10/100/1000 Mbps Ethernet, 1x 10/100 Mbps Ethernet, 1x USB 2.0, 1x fan DC power output MIL-circular; 1x low band transmit/receive RF antenna (100-2000 MHz) TNC female; 1x high band transmit/receive RF antenna (2-6 GHz) N male; 1x GPS antenna receive TNC female; 1x DF antenna receive port MIL-circular
- Dimensions: Height: 10.5 in; width: 8.5 in; depth: 4 in
- Weight: 10.5 lbs
- Environmental rating: designed to IP67 standard
- Operating temperature: -4°F to 131°F (-20°C to 55°C); operating relative humidity: 10% to 95% (non-condensing)
- Storage temperature: -40°F to 158°F (-40°C to 70°C)



DF Array

Specifications subject to change

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Worldwide Headquarters

12021 Sunset Hills Road, Reston, VA 20190
703-841-7800

Visit our website at:

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