



TORCH-X[™] MOUNTED

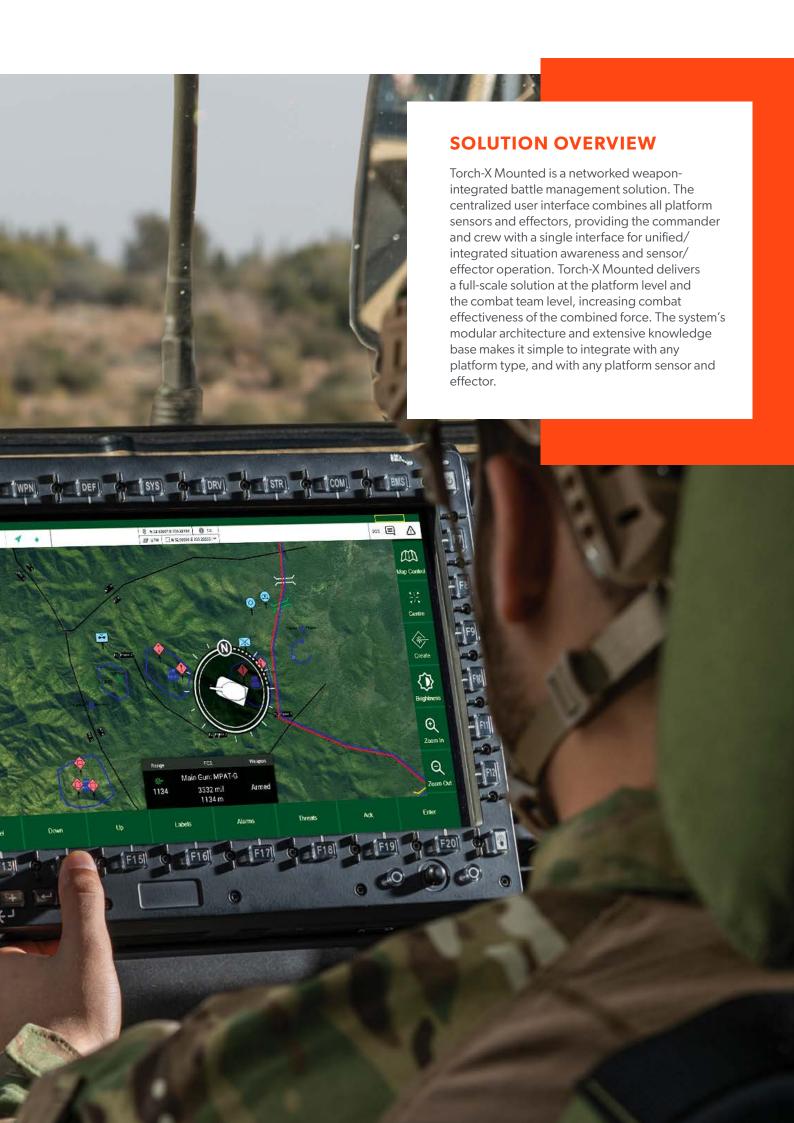
WEAPON-INTEGRATED BATTLE MANAGEMENT SYSTEM FOR MULTIDOMAIN WARFARE



WEAPON-INTEGRATED
BATTLE MANAGEMENT
SYSTEM FOR
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STRATEGIC AND OPERATIONAL NEED

Modern combat vehicles are more mobile, lethal and protected than their predecessors. The integration of more "on platform" weapons, sensors, C^4 ISREW and active protection systems – if not managed correctly – places an unnecessary cognitive load on the combat vehicle crew.



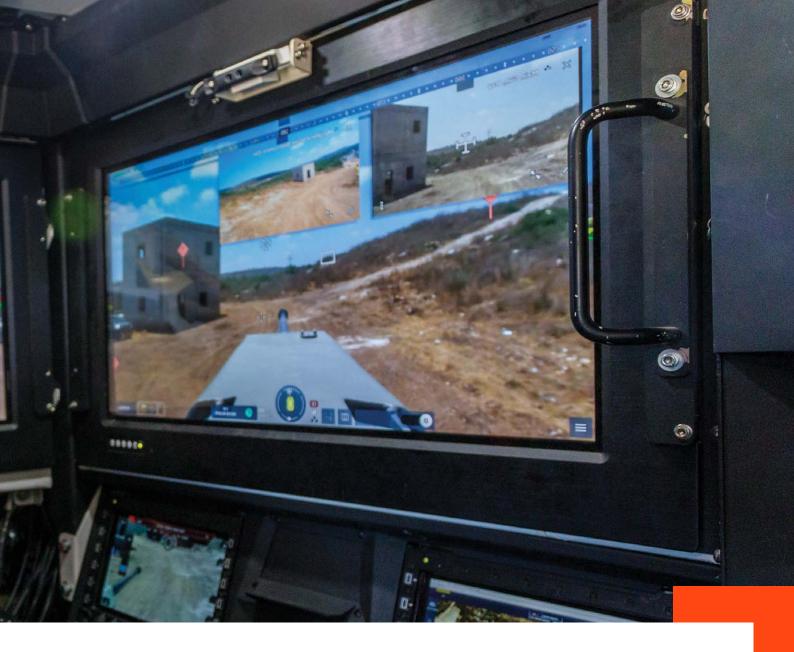


Al-based decision support: Designed to meet the challenges of multidomain warfare against a peer adversary, Torch-X Mounted optimizes the use of sensors and effectors at the platform and combat team level.

Open architecture: Designed as an 'evergreen' ecosystem that can accommodate third party applications and provide the development environment for future growth and requirements. Torch-X Mounted supports the Generic Vehicle Architecture (GVA) to enable seamless integration with sensors and effectors.

Intuitive user experience: A simple, intuitive and configurable user interface, the application enables multi-interface control and connectivity with communication systems, sensors and devices to generate common real-time, reliable and accurate situation awareness. This allows the platform crew to fight and win under the most adverse combat conditions.

Security: The battle management system is designed and developed as a secured system from the ground up. The system is accredited for the Five Eyes network and is compliant with the relevant security standards. Torch-X Mounted is penetration tested on a regular basis and incorporates Elbit Systems CyberShield, a sophisticated, military-grade solution that performs continuous endpoint cyber health monitoring and preventive actions to withstand adversary cyber security threats.



Integrated combat networked solution for fighting vehicles

Comprised of sophisticated building blocks, including comprehensive C^2 applications, advanced computing terminals, tactical multimedia routers and communications systems, Torch-X Mounted delivers a truly integrated combat networked solution for today's battlefield platforms. A mature and battle-proven solution, Torch-X Mounted has been successfully integrated into a variety of tracked and wheeled platforms worldwide and with a broad spectrum of weapon systems, sensors and radios from a range of manufacturers and vendors.

High-performance ruggedized computing terminals

Tactical computers and displays with different configurations run the Torch-X Mounted software and serve as the user interface for the vehicle's crew. Advanced capabilities are based on gunner/commander sight video processing, including video motion detection, tactical overlays displayed over video and common sight language between platforms.

The high-performance computing terminals support the computing demands required for various applications conforming to the GVA standard.

Central computing, voice and data switching and routing unit

The Tactical Server and Multimedia Router (SmarTMR) includes a powerful server, voice intercom, vehicle LAN, tactical voice and data network access and remote radio access for fighting vehicles.

Advanced tactical communications system

Elbit Systems' TIGER™ tactical networking service is a sophisticated middleware that resides between the BMS applications and the tactical media bearers, providing seamless communication integration between the platform and surrounding mounted and dismounted networked nodes. The system operates over heterogeneous media bearers with variant communication attributes, creating a seamless and unified "tactical internet" while masking the underlying complexities of the network from the applications and their operational users.





KEY FEATURES

Seamless integration of platform sensors, effectors and communication systems

Unified HMI for Common Operational Picture, platform weapon and sensor operation

Al decision-support tools to reduce cognitive load from commanders and crew

Tactical Server and Multimedia Router (SmarTMR)

Near real-time targetable data distribution – target handoff

Simple integration with the platform's autonomous unmanned detachable sensors and effectors

Revolutionary automated network management and communication configuration

TIGER™ tactical internet

KEY BENEFITS

Optimizing battle resources and bringing strategic capabilities to the tactical edge

Enhanced platform lethality and force effectiveness

Enhanced platform survivability

Seamless communication integration

Fast target handoff between platforms

Enhanced force situational awareness, collaboration and synchronization

Battle-proven, secure and safe

Built-in advanced cyber protection