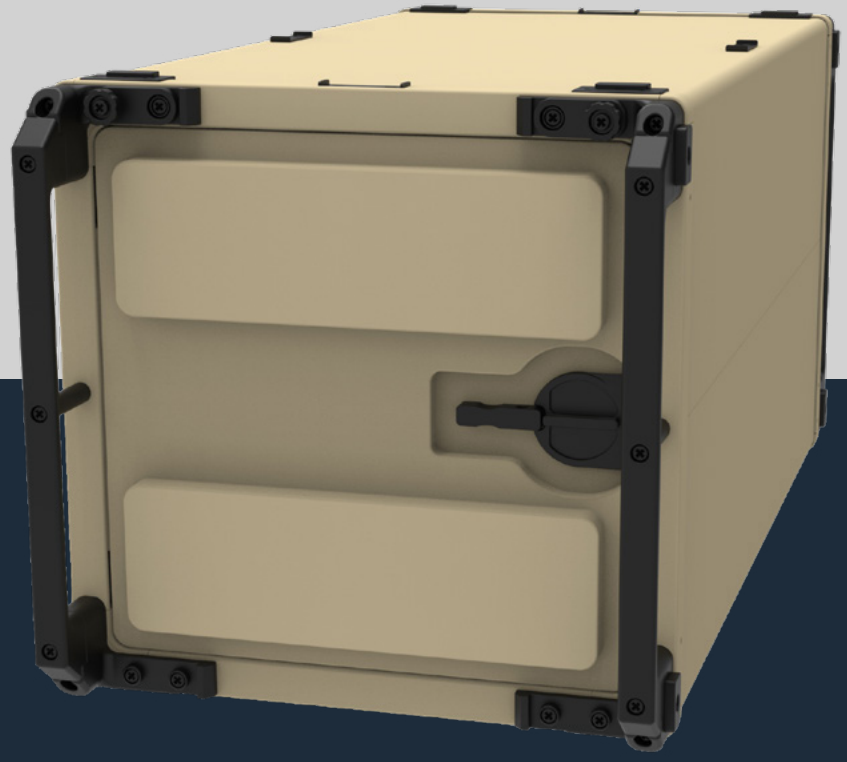
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MACK 5G

Mission-ready edge compute and communications for federal operations



Supports Federal Mission Applications

- Force Protection
- Domain Awareness
- CUAS
- C^{5}ISR

Why MACK

- Purpose-built for compute and dissemination at the tactical edge
- Designed to operate in any mission environment
- Enables processing, exploitation, and dissemination where it matters most



Connect and Communicate - Anywhere, Securely

Tactical Private 5G and Edge Communications

Traditional IT architectures built on separate servers, networking, and storage are often impractical for tactical and expeditionary missions. Federal operations increasingly require a self-contained, integrated architecture that can operate effectively at the edge, particularly in environments where infrastructure is limited, unavailable, or contested.

MACK (Mobile Advanced Communications Kit) delivers a converged architecture that integrates compute, communications, software-defined networking, air-gapped operations, and data storage into a single deployable system. This approach enables agencies to deliver critical capabilities at the edge while supporting mission requirements for security, autonomy, and operational resilience.

By converging these technologies, MACK reduces system complexity and improves efficiency across size, weight, power, and cooling. Integrated telecommunications combined with resilient networking models, including WANET and MANET, enable flexible deployment, simplified operation, and reduced operational burden in demanding field environments.

MACK System Overview

MACK is an integrated compute, networking, and storage platform developed in collaboration with Tracewell Systems, Intel, T-Mobile, and Connect 5G. It is purpose-built to deliver the benefits of converged computing and software-defined storage for rugged, tactical edge missions.

Designed for federal agencies operating in demanding environments, MACK enables secure connectivity across operational networks, including WANET and MANET, as part of a unified, transportable system. This integrated approach allows agencies to deploy mission-critical applications and communications at the edge with greater resiliency, flexibility, and operational confidence.



A certified, ruggedized, and scalable platform delivering integrated 5G-enabled reachback—available as COTS from Dell.

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Interested in a mission-specific discussion or configuration? Speak with your Dell Technologies federal representative or visit dell.com/federal

MACK Configuration Snapshot

Compute Platform

- Dell's Power Edge XR8000 Compute Platform with 32 Core BOSS-N1 controller card + with 2 M.2 960GB 2280 (RAID 1) or ROR-N1 controller card + with 2 M.2 1.92TB, 22110 (RAID 1)
- Connect 5G's Opus-M distributed 5GC – RAN agnostic (Ericsson/Nokia/AirSpan) + Edge Orchestrator

Communications

- Onboard 5G Broadcom
- MANET Radio Network Tray –RF connections & battery eliminator Airspeed n77 Radio
- 10/25/100Gb Switch

Interfaces

- Rugged MIL-circular connectors; all external I/O & power input Front and Rear I/O access; protective transit covers

Expansion Options

- 1U Power & I/O Expansion
- 2U Mission Expansion Tray

Operational Characteristics

- Dimensions: 28.3" L (inc. handles) x 14.7" W x 12.2"H
- Weight: 85 lbs.*
- Power: 100 – 240VAC; redundant PSUs; input power filter with power switch, input transient protection
- Operating Temp: 0 – 55C*
- Certified to MIL-STD-810H shock / vibration, operational falling rain

**Configuration Dependent*