INTRODUCING THE DELL POWEREDGE XR4000 & XR8000 NOW TACLANE READY

Epoch Concepts delivers complete integrated TACLANE capabilities for the edge



*Tracewell T-XR-4000-4 (Four Slot) featuring standard Dell XR4000 compute sleds, Cisco networking switch, and TACLANE device plug and play.

Carry It On Like Luggage, Deploy It Like a Command Center

Deploy powerful infrastructure built for the mission. This enterprise-grade rugged edge platform is Airline Transportation Association (ATA) compliant, endures harsh conditions, and can be managed securely across a a range of air, land and sea mission environments. The rugged case is shock isolated with removable panels and a retractable handle, making it ready for transport to any forward operating command center.

Modular TACLANE Integration for Any Mission Profile

Tracewell Systems' engineered chassis and transit case with Epoch's integrated system design, and integration capabilities deliver a modular, high-performance capability that supports TACLANE integration. To protect sensitive data and sustain communications in edge environments, ensuring classified information moves securely between headquarters and the tactical edge.

FEATURES & BENEFITS

- **All in One Integrated Deployment Stack**
  Cut setup time with a fully integrated system that comes complete with a Tracewell chassis, ATA transit case, standard Dell XR4000 compute sleds, Cisco network switch and an encryption tray for TACLANE integration. Additional configurations available.

- **Ruggedized Cisco Switching**
  The integrated T-XR4510-S switch powered by Cisco ESS 9300 provides secure connectivity with 10x10GbE SFP+ ports, keeping networks reliable in demanding environments.

- **Witness Node Redundancy**
  Built specifically to provide redundancy where uptime is critical, the Dell XR4000w witness node keeps workloads running. If a primary system fails, operations continue without disruption.

- **Reliable Support Beyond the Hardware**
  Dell ProSupport warranty cover the system for up to three years with 24/7 technical assistance. Epoch adds integration expertise and proven system design, ensuring each deployment arrives ready for the mission and backed by reliable, continuous coverage.

- **Mission Agility with VMware & iDRAC Control**
  Dell's iDRAC9 remote management tool with ESXi architecture lets teams set up servers, launch virtual machines, and manage resources from anywhere, bringing new systems online faster without being on site.

- **Encryption Ready with TACLANE 175F Integration**
  A dedicated 1U expansion bay drives cooling and power for the NSA-certified Type 1 encryptor, locking down classified traffic without extra hardware.

Carry less gear, launch more capability. The value is an end-to-end solution for secure, resilient compute and networking at the tactical edge.

For pricing and additional information, contact your Epoch Concepts team.

EPOCH CONCEPTS

DELL Technologies TITANIUM PARTNER

USE CASES

Carry It Anywhere, Deploy It Everywhere

The system packs into a single ATA-compliant rugged transit case measuring 22" x 14" x 9". Lightweight and shock isolated, it moves easily through commercial or military transport while protecting performance. Retractable handles, side straps, and removable covers turn setup and movement into a quick task, even in austere environments. Teams carry enterprise-grade infrastructure on aircraft and put it to work immediately without needing palletized logistics.

Reliable Networks Across Joint Operations

The integrated Cisco ESS 9300-based switch provides ten 10GbE SFP+ ports for connecting ISR feeds, sensors, radio gateways, and WAN uplinks. A dedicated management port and console options give teams control even in disconnected scenarios. The platform works seamlessly across IP-based architectures, including SIPR, NIPR, and coalition enclaves, with full Layer 2 switching and IPv6 support to ensure interoperability in joint operations today and in the future.

Dell networking options are available based on program specifications and mission requirements.

SPECIFICATIONS

COMPUTE PERFORMANCE

Two Dell XR4510c sleds with Intel Xeon D-2796NT (20-core), 512GB ECC RAM, and 15.36TB NVMe storage. Provides scalable compute optimized for AI/ML, ISR, and tactical analytics. Multiple configurations available.

INTEGRATED NETWORKING & SWITCHING

Integrated Cisco ESS 9300-based switch provides ten 10GbE SFP+ ports plus one management port and console access. Operates from -5°C to 55°C (23°F to 131 °F). Ensures secure connectivity for ISR feeds, sensors, radio gateways, and WAN uplinks.

FORM FACTOR

Compact ATA-compliant rugged transit case measuring 22" x 14" x 9". Shock isolated with retractable handle and removable panels. Weighs less than 65 pounds for easy transport.

ENCRYPTION INTEGRATION

Integrated 1U tray for KG-175F with internal power, thermal fans, and copper/fiber I/O routing. Supports NSA-certified Type 1 encryption.

STORAGE AND OS BOOT

Each sled includes 15.36TB NVMe, for a total system storage of 30.72TB and redundant OS boot via BOSS-N1 RAID 1. Provides fast, resilient storage for edge workloads.

SYSTEM DEPLOYMENT

Ships fully integrated, wired, and labeled. Requires no tools, only power and uplinks. Designed for rapid setup and teardown in field operations.

POWER SUPPLY

Dual 1400W hot-swappable power supply units with vehicle and generator compatibility. Includes 12V–5V conversion and full-stack power conditioning.

WITNESS NODE SUPPORT

XR4000w Witness Node maintains quorum and orchestration if compute sleds go offline. Keeps workloads running without disruption and enables DDIL-tolerant cluster deployments.

VIRTUALIZATION AND REMOTE MANAGEMENT

ESXi ready (license not included) with iDRAC9 Enterprise for remote provisioning, monitoring, and orchestration of virtual machines across secure domains.

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