

Quantum-Safe Edge Servers

Rugged AI edge computing with post-quantum-ready security

A high-performance rugged edge server platform built to run AI workloads securely at the tactical edge.

Designed for mission-critical defense environments where resilience, encrypted communications, and real-time data processing are required.



PQC-READY

IP67

DUAL TPM 2.0

EDGE AI

TLS 1.3

The **Quantum-Safe Edge Servers** are rugged AI edge computing platforms built for mission-critical defense and industrial environments where secure data processing, reliable connectivity, and long-term resilience are essential.

Powered by 13th Gen Intel® Core™ processors and NVIDIA® Quadro® MXM graphics, they support AI inference, real-time data fusion, ISR workloads, and secure edge deployments. With optional post-quantum cryptography, TLS 1.3 hybrid encryption, Dual TPM 2.0, IP67 protection, and MIL-STD-focused design, the Quantum-Safe Edge Servers are engineered to help protect mission data while operating reliably in harsh field conditions.

Quantum-Safe Architecture

Optional NIST FIPS 203/204/205 compliant PQC and TLS 1.3 hybrid encryption for protected communications.

Edge AI Processing

13th Gen Intel Core processing with NVIDIA Quadro 2000A MXM graphics for AI inference and real-time data fusion.

Secure Hardware Root of Trust

Dual TPM 2.0 and TrustZone support secure boot, device authentication, and protected mission data handling.

Rugged, Sealed Chassis

Full-metal IP67 enclosure with D38999 military connectors for secure connectivity in harsh environments.

High-Speed Tactical I/O

4x 10GbE and 4x 2.5GbE PoE+ ports support low-latency ISR, sensor, and edge network deployments.

Long Lifecycle Support

Designed for stable supply, long-term availability, and proactive end-of-life notification.

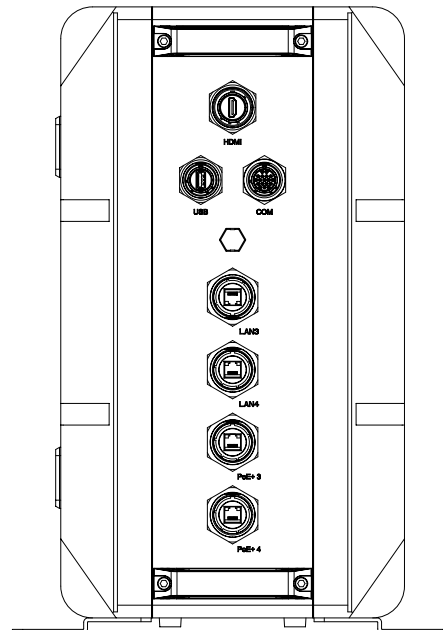
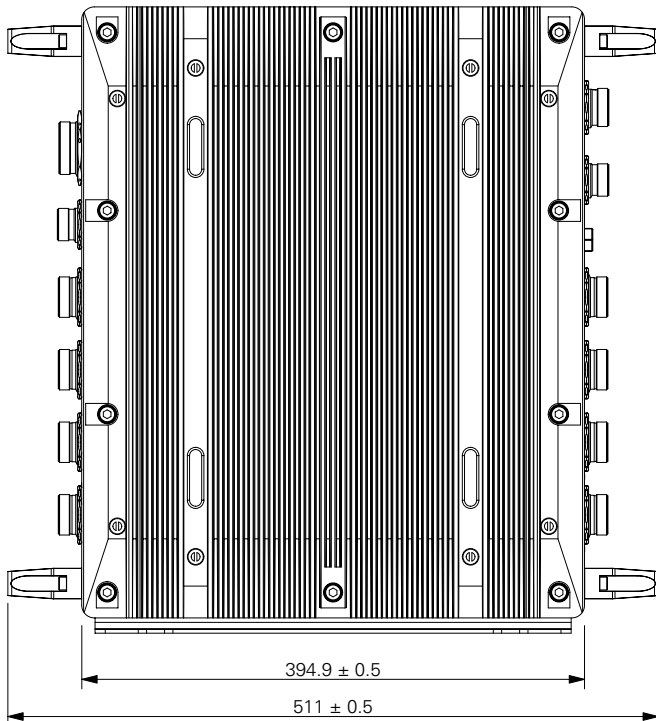
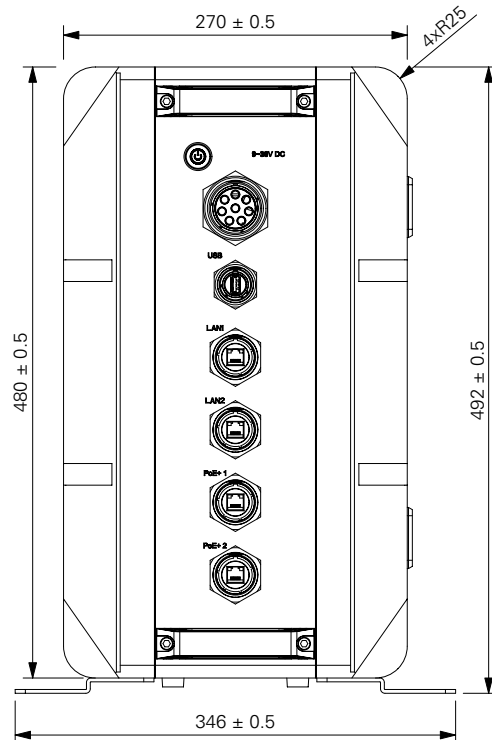
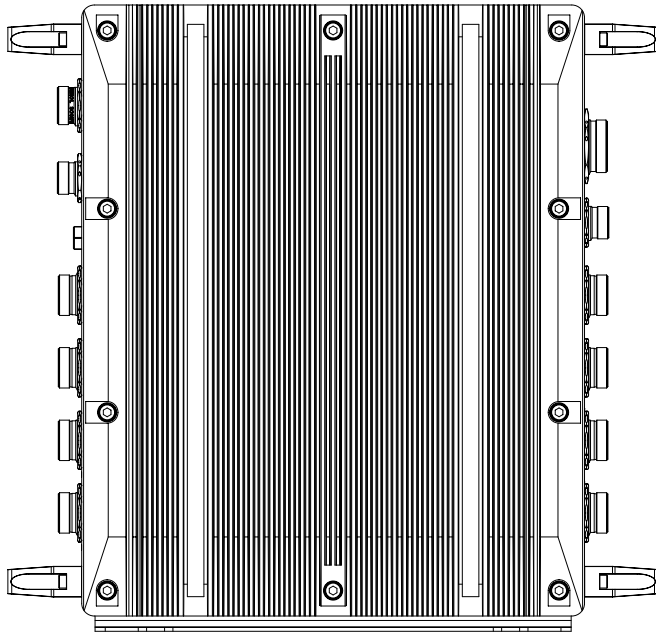
Product Specifications

System	
CPU	13th Gen Intel® Core i3-13300HRE / i5-13600HRE / i7-13800HRE
System Memory	1x Dual-Channel SO-DIMM Slot for ECC DDR5, 5200 MT/s, Default 32GB, up to 96GB
AI Computing	1x MXM 3.1 Type A Slot for GPU Card, Quadro® RTX A2000, GDDR6 8G
External I/O Port	2x USB 3.2 Gen2 2x 10 GbE 1x 2.5 GbE (Optional) 1x 1.0 GbE (Optional) 4x 2.5 GbE PoE+, Total 100W Power Budget 1x HDMI 2.1 2x Serial Port (RS-232/422/485 selectable) (Optional) 1x DC Power Input 1x Power Button All IOs by D38999 Connector
Storage Slot	1x M.2 Slot (M Key, 2280) for NVMe M.2 SSD, default 1TB, up to 2TB 1x SATA III and SATA Power Slot for 2.5" SSD (Internal Slot)
Operation System	Windows 11 (TBC) Linux Ubuntu (Optional)
Expansion	1x M.2 Slot (E Key, CNVi, 2230) for Wireless Wi-Fi/BT module 1x M.2 Slot (B Key, 2242/3042) for WWAN 4G/5G module 1x SIM Slot
TPM	2 x TPM 2.0
Sub-system	NXP Layerscape LS1026A/LS1046A 3x USB 3.2 Gen 1 (Including USB 2.0) (Internal Connector) 1x M.2 Slot (M+B Key, 2280) for M.2 SATA III SSD (Internal Connector)

Environment	
Power Input	DC 9-36V, 450W Power Input with MIL-STD-461G/1275E Certification
Dimension	TBC
Certification	EMC: MIL-STD-461G Certification (CE101/CE102/RE101/RE102) & FCC / CE Class A Certification Vibration: MIL-STD-810H, Method 514.8 Shock: MIL-STD-810H, Method 516.8

Environment (cont.)	
Operating Temp	-40~70°C
Storage Temp	-40~85°C
Humidity	10~90% @40 °C, non-condensing

Mechanical Reference

**Note:**

Mechanical drawings are provided for planning reference.

Final configurations, certifications, and availability should be confirmed with Stealth before integration.