VOYAGER|VM 4.0

VoyagerVM 4.0 is a secure and rugged compute module, powered by the latest Intel Xeon D (formerly Ice Lake) processor. It provides a compact, low power platform that delivers highly reliable compute and networking capabilities in extreme environments.

Providing unrivalled networking flexibility and throughput from 1 Gbps up to 100 Gbps aggregated, it supports up to four NVMe-based storage devices for high speed read/write operations.

VoyagerVM 4.0 gives the flexibility to support different software architectures at the tactical edge.

Additional NVMe storage and GPU expansion modules can be attached to the VoyagerVM4.0 via its proprietary high-speed PCIe Gen 4 expansion interface located on the bottom of the compute module.

KEY FEATURES

- Intel Xeon D (formerly Ice Lake) processor with 128 GB RAM
- Enhanced security features, including:
  - Secure Boot
  - Intel Boot Guard
  - Intel TXT (Trusted Execution Technology)
  - Intel TME (Total Memory Encryption)
  - Intel SGX (Software Guard Extensions)
- Dual removable E1.S NVMe self encrypted (SED) SSDs
- VIK+ SED removable NVMe device for boot or write cache operations
- NVMe SED internal boot device with 256 GB capacity (optional)

- Aggregated networking capability of 100Gbps
- 110 W power consumption compatible with Voyager 1+, Voyager 2+, Voyager 2 Slim, Voyager 4, Voyager 4 Slim, Voyager 6, Voyager 8 QP, and Voyager 8+
- Proprietary high-speed PCIe Gen 4 expansion interface to extend the base compute module with GPU or NVMe storage capabilities

SECURE   **PORTABLE**   **RUGGED**

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VOYAGER|VM 4.0

Specifications

PHYSICAL SPECIFICATIONS

- 7.4" W x 6.3" L x 2" H (188 x 160 x 52mm)
- 3.3 lb / 1.5 Kg (without SSDs)
- 3.8 lb / 1.7 kg (with SSDs)

ELECTRICAL SPECIFICATIONS

DC input (power):

- 9 – 36 VDC (110 W)

CONSTRUCTION

- Aluminum chassis with integrated active cooling

OPERATING TEMPERATURE RANGE

- –26°F to 122°F (–32°C to 50°C)

STORAGE TEMPERATURE RANGE

- –40°F to 185°F (–40°C to 85°C)

CPU

Intel 10th Gen Xeon D-1746TER processor

- **Frequency:** 2.0 GHz
- **Max Cores**: 10
- **Max Threads:** 20
- **RAM:** 128 GB
- **TDP:** 67 W

STORAGE

- 2 x E1.S 9.5mm NVMe SED SSDs
- 1 x VIK+ NVMe boot or write-cache device
- 1 x 256 GB NVMe internal boot device (optional)

NETWORKING

- 100 Gbps aggregate:
  - 4 x 25 Gbps SFP28 interfaces
  - 2 x 2.5 Gbps RJ45 Ethernet ports
  - 1 x RJ45 Ethernet for management
- RDMA over Converged Ethernet (RoCE) support

SECURITY

- Secure Boot
- Intel Boot Guard
- Intel TXT (Trusted Execution Technology)
- Intel TME (Total Memory Encryption)
- Intel SGX (Software Guard Extensions)
- Tamper switch

MANAGEMENT
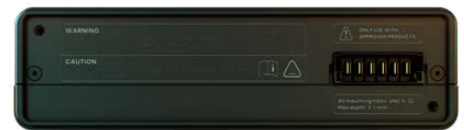
- OpenBMC
- BIOS & hypervisor CLI over console

COMPLIANCE

Designed to meet:

- MIL-STD-810
- MIL-STD-461
- FCC Part 15 B
- CE
- RoHS, REACH

VoyagerVM 4.0 Front

VoyagerVM 4.0 Rear

VoyagerVM 4.0 With GPU Expansion Module

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