Voyager VM4.0

The VoyagerVM 4.0 is a secure and rugged compute module, powered by the 10th Gen Intel IceLake-D processor. It provides a compact, low power platform that delivers highly reliable compute and networking capabilities in extreme environments.

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.

It provides unrivalled networking flexibility and throughput from 1 Gbps up to 100 Gbps aggregated.

VoyagerVM 4.0 can be further expanded by attaching add-on modules such as GPU and NAS to the rugged PCIe connector located on the bottom of the VoyagerVM 4.0.

SECURE   PORTABLE   RUGGED

COMMUNICATE MORE, CARRY LESS

KLAS

Specifications

Physical Specifications
- 7.4" W x 6.3" L x 2" H (188 x 160 x 52mm)
- 3.3 lb / 1.5 Kg

Electrical Specifications
- DC Input (Power):
  - 9 - 36 VDC (120W)

Construction
- Aluminum chassis with integrated active cooling for increased temperature ranges
- Abrasive resistant ceramic coating

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)

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

Ports
- 2 x E1.S 9.5mm NVMe SSD slots
- 4 x SFP28 Ethernet ports
- 2 x Copper Ethernet ports
- 1 x Ethernet management port
- 1 x RJ-45 Console port
- 2 x USB
- 1 x VIK+
- 1 x PCIe Gen 4 port (on bottom)

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

CPU Options
- Intel 10th Gen Xeon D-1746TER processor
  - Frequency: 3.1 GHz
  - Max Cores: 10
  - Max Threads: 20
  - RAM: 128 GB
  - TDP: 67 W

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

Compliance
- Designed to meet:
  - MIL-STD-810
  - MIL-STD-461
  - FCC Part 15 B
  - CE
  - RoHS, REACH

Key Features

- Based on 10th Gen Intel IceLake-D 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.
- Aggregated networking capability of 100Gbps.
- 120W power consumption compatible with Voyager 1+, Voyager 2+, Voyager 2 Slim, Voyager 4, Voyager 4 Slim, Voyager 6, Voyager 8QP and Voyager 8+.
- High-Speed PCIe rugged expansion interface, to extend the base compute module with GPU or NAS storage capabilities

Phone 1300 300 340
Email sales@cistechsolutions.com
Web www.cistechsolutions.com

Quality
ISO 9001