TRX D2

Portable Data Logging and Compute for ADAS/AD Development

Rugged vehicle mount compute and low volume logging device designed for ease of transferring development environments between the workbench and vehicle.

KEY FEATURES

- Network-based logger built on Intel's 10th Gen Xeon-D 10 core processor
- 30 TB of storage, 32 Gbps write speeds
- Dual removable E1.S NVMe self encrypted SSDs
- 4 x 25 GbE and 2 x 2.5 GbE for data ingest
- Open platform architecture for bring-your-own software environments
- Designed to operate in high ambient air temperatures, complies to MIL-STDs
- Optional battery pack for always-on portability
- Vehicle mount bracket with power adapter for ease of transferring in and out of the vehicle

RUGGED   **COMPACT**   **LOW POWER**

KLAS

TRX D2
Specifications

VoyagerVM 4.0

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

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 for increased temperature ranges

TEMPERATURE RANGE
- Operating: -32°C to 50°C (-26°F to 122°F)
- Storage: -40°C to 85°C (-40°F to 185°F)
- Extended operating temperatures available

SECURITY
- Secure Boot
- Intel Boot Guard
- Intel TXT (Trusted Execution Technology)
- Intel TME (Total Memory Encryption)
- Intel SGX (Software Guard Extensions)
- Hardware-controlled tamper switch

MANAGEMENT
- OpenBMC
- BIOS & Hypervisor CLI over console

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

Voyager 1+ (Optional)

RUGGED BATTERY PACK
- Power output 120 W, 65 Wh battery backup power (including 12 W PoE) - suited to modules with higher power requirements
- Can be stacked for extended operation
- Battery-backed 12 V or 24 VDC output to power encryption devices, including ViaSat KG-250X, ViaSat KG-250XS, TACLANENano, KG175N (PoE power), KG-175D, and Mini- Catapan
- Lithium-ion rechargeable battery

PHYSICAL SPECIFICATIONS
- 7.4" W x 1.65" D x 2" H (188 x 42 x 52mm)
- 1 lb (0.48 kg)

ELECTRICAL SPECIFICATIONS
- 10-36 VDC input; max 120 W

TEMPERATURE RANGE
- Operating — charge: 0°C to 40°C (32°F to 104°F)
- Operating — discharge: -20°C to 60°C (-4°F to 140°F)
- Storage: -20°C to 50°C (-4°F to 122°F)
- Extended operating temperatures available

Vehicle Mount Chassis

PHYSICAL SPECIFICATIONS
Available in a choice of two different sizes; standard and full depth (for use with the Voyager 1+).

Short depth (standard):
- 7.6" W x 8.4" L x 2.7" H (193.6 x 213.7 x 68.8 mm)
- 3.4 lb/1.55 kg

Full depth:
- 7.6"W x 10" L x 2.7" H (193.6 x 255 x 68.6 mm)
- 4.1 lb/1.85 kg

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