TRX D8 1.0

Enabling hardware-in-the-loop (HIL) simulation for the development of autonomous vehicle algorithms requires access to real data generated in-vehicle.

Ethernet-connected video and lidar sensors produce high volumes of data but it's important to have access to traditional CAN interfaces to interleave throttle, V2X, and braking information.

With TRX D8 1.0, you can collect data from Ethernet and CAN and store up to 240 TB of encrypted data in a single, easy-to-remove storage cassette.

Network Attached Storage With In-Built Compute

KEY FEATURES

- Intel Xeon D 8-Core (D-1539)
  - 96 GB RAM
  - 500 GB CFX (VIK+) storage for KlasOS Keel
- Supports RAID levels 0, 1, 10, 5, 50, 6, 60
- Removable 8-drive cassette with SAS/SATA support, each with 12 Gbps or 6 Gbps respectively
- Support for 8 additional SSDs
- Supercap option for battery-backed cache
- Self-encrypting drive support
- Vehicle power adapter for 10-36 V operation

Trains

Autonomous

Fleet

www.klasgroup.com

KLAS

TRX D8 1.0

Specifications

Ordering Information

- Part No.: KLAS-TRX-D8-8C

Physical Specifications

- 10.2" x 7.4" x 6.6" (259mm x 188mm x 168mm)
- 13.2 lb / 6 kg

Electrical Specifications

- 10 - 36 VDC input
- 200 W power consumption
- Filter and surge protection to ISO 16750-2
- Connector type: Amphenol PT02E12-4AP

Ports

- 2 x 10 Gb SFP
  (Optional retained transceiver for copper)
- 2 x 1 Gb RJ45 copper
- 4 CAN-FD interfaces
- 2 x USB 3.0
- 1 x VGA port
- 1 x RJ45 console
- 1 x VIK+ NVMe interface

Temperature Range

- Operating: 0°C - 50°C (32°F to 122°F)
- Storage with supercap backup:
  0°C - 70°C (32°F to 158°F)
- Storage w/o supercap backup:
  -40°C - 85°C (-40°F to 185°F)
- Extended operating temperatures available

CPU Options

- Intel® Xeon® Processor D-1539 8-Core with 32 GB RAM (order time option of 96 GB RAM)
- Intel® Virtualization Technology (VT-x) & Intel® Virtualization Technology for Directed I/O (VT-d)
- 500 GB CFX storage for OS

Storage

- RAID levels 0, 1, 10, 5, 50, 6, 60
- 8 x internal SAS/SATA connections each 12 Gbps/6 Gbps respectively
- Additional 8 x SATA/SAS available
- Supercap option for battery-backed cache
- VIK+ NVMe 512 GB

Construction

- Aluminum chassis

Software Support

- KlasOS Keel KVM-based hypervisor
- Blackrock

Compliance

Designed to:

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

KEELOS | BLACKROCK

Optimised Management & Virtualization