

TRX D8

Enabling Hardware-In-Loop 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 also important to have access to traditional CAN interfaces to interleave throttle, V2X and braking information.

With TRX D8 you can collect data from Ethernet and CAN and store up to 120TB of encrypted data in a single easy-to-remove storage cassette.



Network Attached Storage With In-built Compute

KEY FEATURES

- Intel Xeon D with 8 (D-1539), 12 (D-1559) or 16 Cores (D-1577)
 - 32GB standard; upgrade option to 96GB RAM
 - 500GB CFX (VIK+) storage for KlasOS Keel
- Intel RSP3MD088F RAID Card connected via PCIe x 8 and supporting RAID levels 0, 1, 10, 5, 50, 6, 60
- Removable 8-drive cassette with SATA / SAS support, each with 12Gb/s or 6Gb/s respectively
- Support for additional SSDs via two 4 x SAS connectors (additional cassette available)
- Supercap option for battery-backed cache
- Self-encrypting drive support
- Vehicle power adapter for 10-18V operation



Trains



Autonomous



Fleet

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KLAS

TRX D8

Specifications



Physical Specifications

- 7.4" W x 6.4" L x 8.7" H (188 mm x 162 mm x 222 mm)
- 10 lb / 4.5 kg

Electrical Specifications

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

Ports

- 2 x 10Gb SFP. Optional retained transceiver for Copper
- 2 x 1Gb RJ-45 Copper
- 4 CAN-FD interfaces
- 2 x USB 3.0 with locking mechanism
- 1 x VGA port
- 1 x RJ-45 console
- 1 x VIK+ NVMe interface

Temperature Range

- Operational: 0°C - 50°C
- Storage: 0°C - 70°C with supercap backup enabled, -40°C - 85°C without

CPU Options

- Intel® Xeon® Processor D-1539 8-Core with 32 GB RAM (order time option of 96 GB RAM)
- Intel® Xeon® Processor D-1559 12-Core with 32 GB RAM (order time option of 96 GB RAM)
- Intel® Xeon® Processor D-1577 16-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)
- 500GB CFX storage for OS

Storage

- Intel RSP3MD088F RAID Card
- RAID Leves 0, 1, 10, 5, 50, 6, 60
- 8 x Internal SAS/SATA connections each 12Gb/s/6Gbps respectively.
- Additional 8x external SAS/SATA connections on front presented as 2x SAS (additional cartridge available)
- Validated with Micron 7.6TB SSD
- Supercap option for battery-backed cache
- VIK+ NVMe 512 GB

Construction

- Aluminum chassis with fanless cooling

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

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