

# 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 240TB 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)
  - 96GB RAM
  - 500GB 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 12Gb/s or 6Gb/s respectively
- Support for 8 additional SSDs
- Supercap option for battery-backed cache
- Self-encrypting drive support
- Vehicle power adapter for 10-36V operation



Trains



Autonomous



Fleet

#### EMEA:

Klas,  
4th Floor, One Kilmainham Square,  
Inchicore Road, Kilmainham,  
Dublin 8, Ireland  
DO8 ETW.  
Tel: +353 1 6624270

#### US

Klas,  
1101 30th Street NW,  
Suite 500, Washington,  
DC 20007.

Tel: +1 202-625-8315

[www.klasgroup.com](http://www.klasgroup.com)

# KLAS

# RX D8

## Specifications



### Physical Specifications

- 9" x 7.4" L x 6.4" H (229mm x 188mm x 162mm)
- 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 10Gb SFP. Optional retained transceiver for Copper
- 2 x 1Gb RJ-45 Copper
- 4 CAN-FD interfaces
- 2 x USB 3.0
- 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

- RAID Leves 0, 1, 10, 5, 50, 6, 60
- 8 x Internal SAS/SATA connections each 12Gbps/6Gbps respectively.
- Additional 8 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

#### EMEA:

Klas,  
4th Floor, One Kilmainham Square,  
Inchicore Road, Kilmainham,  
Dublin 8, Ireland  
DO8 ETIW.  
Tel: +353 1 6624270

#### US

Klas,  
1101 30th Street NW,  
Suite 500, Washington,  
DC 20007.  
Tel: +1 202-625-8315

[www.klasgroup.com](http://www.klasgroup.com)

# KLAS