CISTECH SOLUTIONS

CHANGING THE WAY
YOU COMMUNICATE

TRX R2

Rugged Cellular Gateway with Edge Compute

TRX R2 is a rugged compute gateway that combines both connectivity and local compute so that vehicles and operators have connectivity when they need it, but local processing capabilities when connectivity is unreliable.

The solution is underpinned by KlasOS Keel; a lightweight OS with integrated hypervisor, SD-WAN and the latest Wi-Fi and cellular connectivity.

TRX R2 can be configured with two 4G/LTE modems or with a single 5G modem. In addition, the TRX R2 integrates GPS, Wi-Fi, and 2 x 10Gb Ethernet (8 core variant). Combined with Klas' proven SD-WAN feature embedded in Keel, multiple transports can be used simultaneously in a secure and agile way.

A broad range of virtual machines are also supported including VPN technology, WAN optimization, RoIP and video analytics.

COMMUNICATE MORE, CARRY LESS

KLAS

Specifications

Physical Specifications
- 7.4" W x 6.3" L x 2" H (188 mm x 160 mm x 52 mm)
- 4.4 lb / 2 kg

Electrical Specifications
- 9 - 36 VDC input
- 15 - 32 W power consumption

Construction
- Aluminum chassis with fanless cooling

Operational Temperature Range
- C3308: 0°C to 60°C
- C3538: 0°C to 60°C
- C3508: -32°C to 60°C
- C3708: -32°C to 50°C

CPU Options
- Intel® Atom™ Denverton C3308 2-Core (2 Threads) processor with 1.6 GHz, 4 MB Cache
- Intel® Atom™ Denverton C3538 4-Core (4 Threads) processor with 2.1 GHz, 8 MB Cache
- Intel® Atom™ Denverton C3508 4-Core (4 Threads) processor with 1.6 GHz, 8 MB Cache
- Intel® Atom™ Denverton C3708 8-Core (8 Threads) processor with 1.7 GHz, 16 MB Cache
- Memory options:
  - 16 GB RAM as standard
  - Upgrade option to 32 GB or 64 GB RAM

Wi-Fi Interface
- IEEE802.11 ac/b/g/n modem with datarates of 1.3 Gb/s downlink
- 3x3 MIMO
- Supports 2.4 GHz and 5 GHz bands
- Enhanced wireless security supporting 64/128-bits WEP, WPA, WPA2, 802.1x

Ports
- 2 x LTE Modem Slots of M.2 form factor accessible by removing the top modem cover
- 2 x SIM card slots (one for each LTE modem)
- 2 x 1 Gb Ethernet ports
- 2 x 10 Gb SFP ports (8-core only)
- 4 x modem antenna ports (2 per modem)
- 1 x GPS antenna port
- 3 x Wi-Fi antenna ports
- 2 x USB 2.0 interfaces
- RJ-45 serial console port with hypervisor access

4G LTE Modems
- 2 x Sierra Wireless LTE modems. Multiple options supported covering all regions, supporting up to Cat-12 LTE with fall-back to 3G networks. Certified for use on Verizon, AT&T and FirstNet.

5G Modems
- 1 x Thales MV31-W Global support. Supports 5G SA and NSA (6 Gbps DL, 2 Gbps UL) plus fall-back to LTE Cat.20/Cat.13 and 3G networks.

Software Support
- KlasOS Keel, a lightweight OS with integrated hypervisor and SD-WAN
- Blackrock management, automation and monitoring

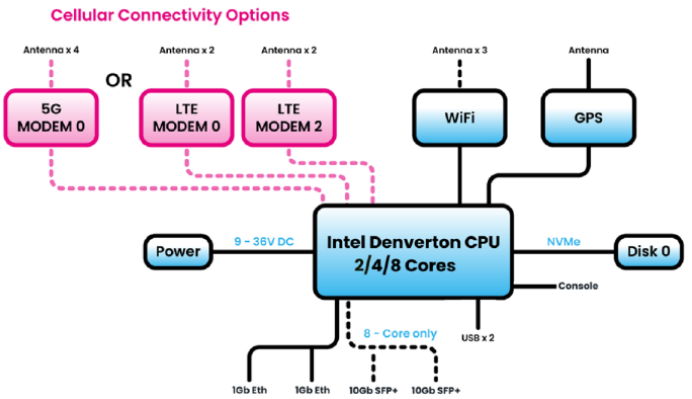
Compliance
- Desgined to meet:
  - MIL-STD-810G
  - MIL-STD-461F
  - FCC Part 15 B
  - CE
  - RoHS, REACH

KEEL | BLACKROCK

Optimized Management & Virtualization

Key Features

- Intel® Atom™ Denverton 8-core, 4-core or 2-core processor options
- Two 4G/LTE modems with Band 14 Firstnet support or one 5G modem
- NVMe-based storage with up to 1TB capacity
- Two copper 1Gb Ethernet ports
- Two 10 Gb SFP+ ports in 8-core variant
- SD-WAN support for LTE modem aggregation, secure VPN and headend
- Simultaneous Wi-Fi AP and client
- KlasOS Keel software providing:
  - Connectivity
  - Virtualization
  - Telematics
  - Management
- In-process for NIAP CC Validation



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