VTC 7252-7C4IP

Fanless 4-CH PoE IP65 Vehicle Computer
with 9th Gen Intel® Core™ i Processor

Main Features

- 9th Gen Intel® Core™ i7-9700TE, up to 3.8GHz, 8 Core
- Full IP65 protection
- 4 x Independent 10/100/1000 Mbps PoE 802.3af/at, total 60W
- 2 x Internal 2.5" SSD, 2 x mSATA, and 1 x CFast with RAID 0/1/5/10

- 2 x Isolated CAN bus 2.0B
- Optional GNSS dead reckoning supported
- Support 5G NR, Wi-Fi 6, V2X/DSRC, accelerator card
- CE/FCC/E-mark (E13)/MIL-STD-810G

Product Overview

NEXCOM IP65 vehicle computer VTC 7252-7C4IP accomplishes operational efficiency of harsh environment. Based on the 9th Gen Intel® Core™ i7-9700TE processor, the VTC 7252-7C4IP provides an integral solution incorporating high computing power, 4 port of independent PoE, 2 port of independent LAN and GNSS tracking with optional Dead Reckoning (DR) support to record in-vehicle activities, locations, high quality videos, driving patterns and vehicle diagnostics for raw material and public work vehicles achieving better measures for safety and management.

Specifications

CPU
- 9th Gen Intel® Core™ i7-9700TE processor, TDP 35W

Chipset
- Intel® C246 platform controller hub

Memory
- 2-Channel 260-pin DDR4 SO-DMIM sockets up to 32GB/channel (64GB for two channels, non-ECC up to 2666 MHz), default 4GB + 4GB industrial grade memory

Video Output
- Chipset Intel® UHD Graphics 630
- 1 x VGA up to 1920 x 1200 @ 60Hz
- 1 x HDMI® (4096 x 2160 @ 30Hz) (option)

Storage
- 2 x 2.5" SATA 3.0 internal SSD (tray: 9.5 mm height)
- 2 x mSATA 3.0 (occupied a Mini PCIe socket) + 1 x CFast
- RAID 0/1/5/10 supported

Expansion
- 1 x M.2 3042/3052 Key B (USB 2.0, USB 3.2 Gen 2x1) for LTE/5G NR
- 2 x Full size Mini PCIe socket (USB 2.0, PCIe 3.0 & SATA 3.0 with BIOS selection)
- 1 x M.2 2230 Key E (USB 2.0, 2 x PCIe 3.0) for Wi-Fi (default); BOM option: 1 x Full size Mini PCIe socket (USB 2.0, PCIe 3.0)

GNSS and Onboard Sensor
- 1 x Default u-blox NEO-M8N GNSS module for GPS/GLONASS/QZSS/ Galileo/Beidou, optional modules with dead reckoning available

- TPM 2.0 by Infineon SLB 9665TT2
- 1 x 3D accelerometer and 3D gyroscope

Power over Ethernet
- 4 x Independent LAN, 10/100/1000 Mbps Intel® I210-IT GbE, PoE 802.3af/at, up to 60W
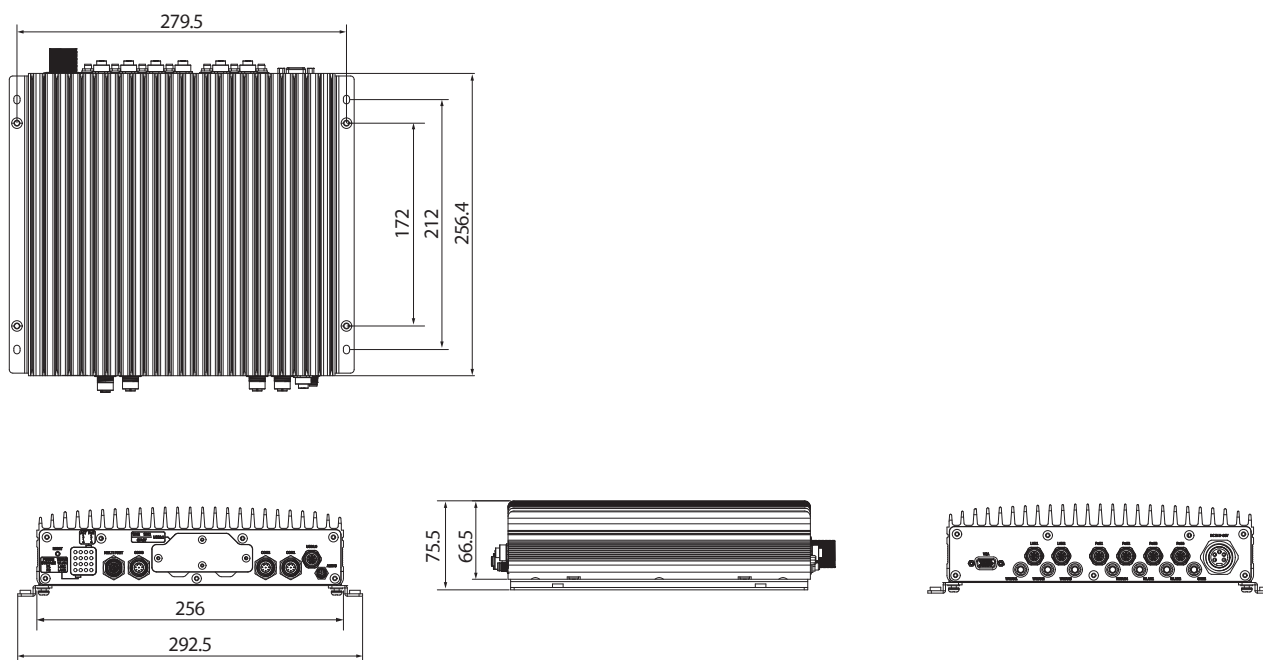- 2 x LAN, 10/100/1000 Mbps (1 for I219, supports iAMT and WoL)

I/O Interface-Front
- 1 x Reset button
- 16 x LED indicator (including 2 x programmable LED)
- 2 x USB 3.2 Gen 2x1, Type-A with cover
- 2 x External micro-SIM slot with cover
- 1 x CFast with cover
- 1 x 6-pin for audio (1 x mic-in (mono) 1 x line-out (L + R)). (option) Additional 1 x mic-in (mono) and 1 x line-out (L + R)
- 1 x M12 8-pin for 2 x USB 2.0
- 1 x M12 8-pin for full RS-232/422/485
- 2 x M12 8-pin for full RS-232
- 1 x M12 12-pin
  - 2 x Isolated CAN bus 2.0B
  - 3 x DI, and 3 x DO
- 1 x M12 8-pin (internal reservation)
  - 12VDC (2A) output
  - RS-232 (Tx & Rx)
  - Remote power button
  - Reset button
  - Sleeping mode button
- 1 x VGA (internal reservation)
- 1 x HDMI® (internal reservation)

I/O Interface-Rear
- 1 x VGA
- 2 x M12 A-code LAN port, 10/100/1000 Mbps

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Dimension Drawing

- 4 x M12 A-coded PoE port, 10/100/1000 Mbps
- 1 x M12 5-Pin DC Input with ignition (9V~36V)
- 7 x SMA antenna hole (4 x WWAN, 2 x WLAN, 1 x GNSS)

Power Management & Software Support
- Power input 9~36VDC
- Cranking voltage: 6V~9V (< 30 seconds)
- Reverse protection, OCP & UVP
- Selectable boot-up & shut-down voltage for low power protection by software
- Setting 8-level power on/off delay time by software
- 1~255 seconds WDT support, setup by software
- SDK (Windows/Linux) including utility and sample code

Operating System
- Windows 10
- Linux

Dimensions
- 256 x 256.4 x 66.5 (W x D x H) (mm)

Weight
- 4.5kg

Environment
- Operating temperature
  - -30°C~60°C (w/ industrial SSD) with air flow
- Storage temperature: -40°C~80°C
- Relative humidity: 90% (non-condensing)
- Vibration (random)
  - 2g @ 5~500 Hz (in operation, SSD)
- Vibration (SSD)
  - Operating: MIL-STD-810G, Method 514.6, Category 4, common carrier US highway truck vibration exposure
  - Storage: MIL-STD-810G, Method 514.6, Category 24, minimum integrity test
- Shock (SSD)
  - Operating: MIL-STD-810G, Method 516.6, Procedure I, functional shock=40g
- Non-operating: MIL-STD-810G, Method 516.6, Procedure V, crash hazard shock test=75g

Certifications
- CE approval
- FCC Class A
- E-mark (E13)
- IP65 compliance

Ordering Information

- **VTC 7252-7C4IP (P/N: 10V00725200X0)**
  9th Gen Intel® Core™ i7-9700TE, 2 x 4GB industrial grade memory, VGA output, 2 x internal 2.5" tray, 1 x CFast, 2 x LAN, 4 x PoE 802.3af/at (total 60W), 2 x Mini PCIe slot, 2 x M.2 slot, 2 x SIM socket