VTC 7250-7C8

Fanless 8-CH PoE Mobile NVR
with Intel® Core™ 8th Gen CPU

Main Features

- Intel® Core™ 8th Gen desktop, i7-8700T, up to 4 GHz, 6 Core
- 8 x 10/100/1000 PoE 802.3af/at
- 1 x VGA and 1 x HDMI video output
- ultraONE+ for 10-Meter video + audio output
- 2 x External SSD and 2 x mSATA for RAID 0, 1
- 2 x WWAN module and 3 x SIM socket with eSIM option
- 3 x mini-PCIe and 1 x M.2
- CE/FCC/E mark

Product Overview

NEXCOM mobile surveillance system VTC 7250-7C8 accomplishes operational efficiency of public transportation and service. Based on the 8th generation Intel® Core™ processors i7-8700T, VTC 7250-7C8 provides an integral solution incorporating high computing power, 8 port of PoE, wireless communication (2 x WWAN + 3 x SIM) and long distance display connection (up to 10 meters), GNSS tracking with optional Dead Reckoning (DR) support to record in-vehicle activities, locations, high quality videos, driving patterns, and vehicle diagnostics for buses and patrol vehicles achieving better measures for safety and management.

Specifications

CPU

- Intel® Core™ 8th Gen (Coffee Lake-S) i7-8700T, up to 4 GHz, 35W, 6 core
- Compatible Intel® processor (by request)

Chipset

- Intel® Q370 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 HDMI 1.4b up to 4096 x 2160@30Hz
- 1 x VGA up to 1920 x 1200@60Hz
- 1 x ultraONE+ compatible with specific monitor

Storage

- 2 x 2.5" SATA 3.0 external SSD (compatible with 15mm height), RAID 0/1 supported
- 2 x mSATA 3.0 (share with mini-PCIe slot)

Expansion

- 1 x M.2 3042 (default) Key B socket (USB 2.0, USB 3.1) for LTE/5G NR module with dual SIM
- 1 x Full-size mini-PCIe socket (USB 2.0) for LTE with dual SIM. Optional M.2 3042 Key B (USB 2.0, USB 3.1) for LTE/5G NR module
- 1 x Full-size mini-PCIe socket (USB 2.0, PCIe 3.0 & SATA 3.0 [auto detection])
- 1 x Full-size mini-PCIe socket (USB 2.0, PCIe 3.0 & SATA 3.0 [BIOS selection])

GNSS and On Board Sensor

- 1 x Default U-blox NEO-M8N GNSS module for GPS/Glonass/QZSS/ Galileo/Beidou
- Optional M8U/M8L modules with dead reckoning available
- TPM 2.0 by Infineon SLB9665TT2 (option)
- G Sensor (3-axis, 10-bit resolution)

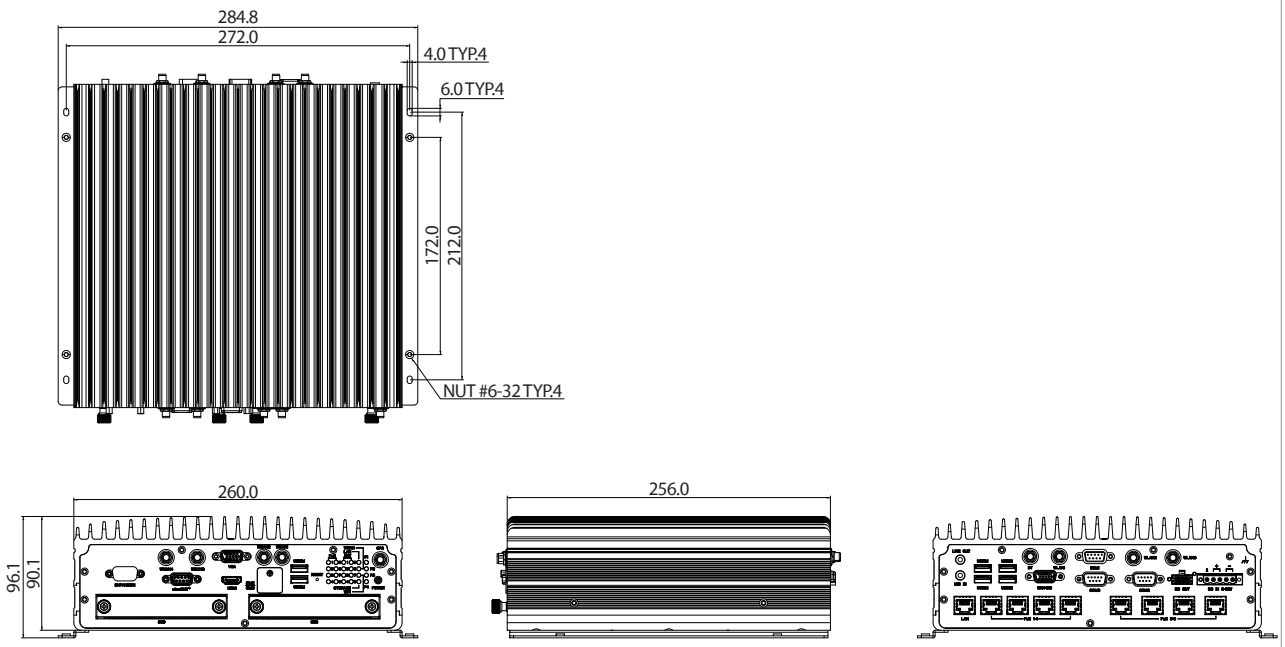
LAN and Power over Ethernet

- 8-Port LAN, 10/100/1000 Mbps I210-IT GbE, PoE 802.3af/at, max. 60W
- 1-Port LAN, 10/100/1000 Mbps I210-IT GbE

I/O Interface-Front

- 24 x LED indicators (including 4 x programmable LED)
- 1 x HDMI 1.4b
- 1 x VGA
- 1 x ultraONE+ for 10M video + audio output + 24VDC output
- 2 x USB 3.1 type A (5V/1A)
- 2 x Externally accessible SIM card sockets
- 2 x 2.5" removable SSD tray
- 1 x Reset button

Dimension Drawing



- 1 x Power button
- 5 x SMA antenna

I/O Interface-Rear

- 8 x PoE 802.3af/at (max. 60W)
- 1 x RJ45 LAN port, 10/100/1000 Mbps
- 1 x 5-pin terminal block for 9V~36V DC
- 1 x Mic-in, 1 x Line-out
- 1 x Connector (4 x 2) for 12VDC/2A output, power button, 2 x MDI
- 2 x DB9 for full RS232
- 1 x DB9 for full RS232/422/485 (RI, 5V/0.5A, 12V/0.5A)
- 1 x DB15
  - 1 x Isolated CAN Bus 2.0B
  - 1 x GPS DR (option)
  - 4 x DI and 4 x DO
- 4 x SMA antenna
- 4 x USB 3.1 type A (5V/1A)

Power Management & Software Support

- Selectable boot-up & shut-down voltage for low power protection by software
- Setting 8-level power on/off delay time by software
- Support S3/S4 suspend mode
- 10~255 seconds WDT support, setup by software
- SDK (Windows/Linux) including utility and sample code

Operating System

- Windows 10/Linux/YOCTO (by request)

Dimensions

- 260 x 256 x 90.1 (W x D x H) (mm)

Weight

- 5.8kg

Environment

- Operating temperatures
  - -20°C~60°C (w/ industrial SSD) with air flow
- Storage temperatures: -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
  - 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, E13 mark

Ordering Information

- **VTC 7250-7C8 (P/N: 10V00725000X0)**
  Intel® Core™ 8th Gen i7-8700T, 2 x 4GB industrial grade memory, 8 x PoE 802.3af/at, 3 x mini-PCIe, 1 x M.2, 3 x SIM