VTC 7260-xC4





Main Features

- Intel® 11th Gen Tiger Lake UP3, cost-efficient performance
- Compact, rugged and fanless design
- Rich I/Os, 4 x PoE+, GbE, 4 x USB 3.2/2.0 & 2 x RS232/422/485
- 1 x 2.5" SSD, 1 x mSATA and 1 x NVMe SSD for data integrity
- Up to 3 combinations of LTE/5G, Wi-Fi 5/6 for mobile router function
- Triple display, VGA, HDMI and DP for multi video-out
- 9~36V DC-IN with ignition control & OCP/OVP
- Wide range operating temperature of -30°C~60°C (15W TDP & PoE)
- Military standard of anti-vibration/shock for OHV applications
- CE/FCC, UKCA, Emark Certified

Product Overview

VTC 7260-xC4 is an in-vehicle AI-aided telematics computer designed with Intel 11th Gen. Tiger Lake UP3, which performs 25% more computing power than the former generation. Moreover, its 10-year product lifespan can satisfy the long-term support suitable for any in-vehicle applications. With the $compact, rugged, and fanless \, design, \, VTC \, 7260 \cdot xC4 \, can \, widely \, be \, installed \, in \, any \, limited \, cabinet \, space \, with \, ease, \, and \, reduce \, the \, maintenance \, efforts \, in \, cabinet \, space \, with \, ease, \, and \, reduce \, the \, maintenance \, efforts \, in \, cabinet \, space \, with \, ease, \, and \, reduce \, the \, maintenance \, efforts \, in \, cabinet \, space \, with \, ease, \, and \, reduce \, the \, maintenance \, efforts \, in \, cabinet \, space \, with \, ease, \, and \, reduce \, the \, maintenance \, efforts \, in \, cabinet \, space \, with \, ease, \, and \, reduce \, the \, maintenance \, efforts \, in \, cabinet \, space \, with \, ease, \, and \, reduce \, the \, maintenance \, efforts \, in \, cabinet \, space \, with \, ease, \, and \, reduce \, the \, maintenance \, efforts \, in \, cabinet \, space \, with \, ease, \, and \, reduce \, the \, maintenance \, efforts \, in \, cabinet \, space \, with \, ease, \, and \, reduce \, the \, cabinet \, space \, with \, ease, \, and \, reduce \, the \, cabinet \, space \, with \, ease, \, and \, reduce \, the \, cabinet \, space \, with \, ease, \, and \, reduce \, the \, cabinet \, space \, with \, ease, \, and \, reduce \, the \, cabinet \, space \, with \, ease, \, and \, cabinet \, with \, and \, cab$ while operating 24/7 services. In addition, the VTC 7260-xC4 features diverse peripherals, such as 2.5GbE, PoE+, USB 3.2, isolation CANBus, serial ports, ultra-speed NVMe storage, triple displays, audio in/out, DI/DO, and $9\sim36$ VDC with IGN control, making it a sophisticated in-vehicle computer.

To work as the edge AI, the user can install LTE/5G/Wi-Fi 5/6 modules along with Hailo AI accelerator (26TOPS) to deploy AI services, provided from cloud SaaS. In consideration of the harsh environment applications, VTC 7260-xC4 can be operated at the temperature range of -30°C~60°C (15W TDP & PoE) and is compliant with MIL-STD-810G military standard for anti-vibration/shock. For the regulation, VTC 7260-xC4 is compliant with CE/ FCC Class A, UKCA, and EMARK (E13).

Specifications

CPU

- Intel® Core™ 11th Gen Tiger Lake UP3
- Core i5-1145GRE, base frequency 1.5GHz/ 2.6GHz, 4c, 8 MB Intel® Smart Cache (VTC 7260-5C4)
 TDP boot mode in BIOS setting: nominal (15W)
- Core i7-1185GRE, base frequency 1.8GHz/ 2.8GHz, 4c, 12 MB Intel® Smart Cache (VTC 7260-7C4)
- Graphics:
 - Intel® Iris® Xe graphics, 1.3GHz
- Max resolution: 4096 x 2304@60Hz (HDMI)
- DirectX: 12.1, OpenGL: 4.6

Memory

- 2 x SO-DIMM, DDR4-3200MHz
- 4GB+4GB in default, 64GB in max.
- ECC (in-band ECC), dual- channel support

- 1 x 2.5" SSD (15mm height)
- 1 x mPCle for mSATA (SATA 3.0)
- 1 x M.2 2242/2280 Key M NVMe SSD (PCIe 4.0 x4), Hailo AI card in option

Expansion slots

- 1 x mPCle socket (PCle 3.0 + USB 2.0/ USB 3.2), 2 x micro SIMs supported
- 1 x M.2 3042/3052 Key B socket (USB 3.2), 2 x micro SIMs supported
- 1 x M.2 2230 Key E socket (PCIe 3.0 x 2 & USB 2.0), Wi-Fi or Hailo Al card in option)

Display

- 1 x HDMI 2.0a/b, up to 3840 x 2160@60Hz
- 1 x VGA, up to 2560 x 1600@60Hz

1 x DP. 4096 x 2304@60Hz

PoF+

- 4-port independent 2.5GbE, RJ45 connector
- IEEE 802.3 af/at, total 60W
- 9K byte iumbo frame
- PTP (IEEE 1588) support
- Controller: Intel® I225-IT

GbE

- 1-port independent GbE, RJ45 connector
 - vPro (iAMT) support
 - 9K byte jumbo frame
 - PTP (IEEE 1588) support
 - Wake-up function (WoL)
 - Boot from PXE (UEFI)

USB

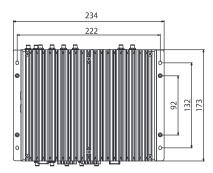
- 3 x USB 3.2 Gen1:
 - Host type-A connector
 - 5V@900mA each
 - Up to 10Gbit/s link speed & compliance with USB 2.0 (LS/FS/HS link speed)
- 1 x USB 2.0, host type-A, 2 x USB 2.0 wafter-type reserved

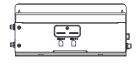
- 2 x full RS232/422/485, selectable
- 2 x full RS232 wafer-type reserved
 - RS232 working voltage, +- 9V, baud rate up to 115.2kb/s

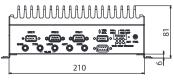
TPM 2.0: Infineon SLB9670VQ2.0 FW7.62



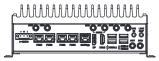
Dimension Drawing











Audio

- Line-out, unbalance stereo, left & right channel
- MIC-in, stereo
- Line-in reserved (wafer connector)

MEMS Sensor

- 3D accelerometer and 3D gyroscope
- Controller: ST LSM6DSLTR

DI/DO

- 4-bit input
 - Source: 9~36VDC (12V@1.1mA/24V@2.2mA)
- External: 0~33VDC pull-high, high-level, 3.3 33 VDC; low-level, 0 2 VDC
- 4-bit output

 - Source: 9~36VDC (nominal 35mA@24V):
 External: 5~27VDC pull-high, sink current w/ 220mA for each bit, 500mA max (@25C)
- Source or external can be selected by DIP switch (default: source type)

CAN bus

- 1 x CAN 2.0A/2.0B
- IEC 61000-4-2 Electrostatic Discharge (ESD): ± 8KV/15KV (contact/air)
- 2.5KV isolated

- U-blox NEO-M9N GNSS module for GPS/GLONESS/QZSS/Galileo/Beidou
- Optional DR (Dead Reckoning) function, NEO-M8Ú/M8L

Power Supply

- Nominal voltage: 9~36V
- Cranking voltage: 6V~9V (less than 20 sec)
- OCP & UVP (shut down once exceeding 37V)
- Ignition on/off control & programmable on/off delay timer
- Optional for remote power on/off control

I/O ports, Front-plate

- ATX power button, Reset button
 9 x LED Indicators, 1 x VGA (DB15), 2 x COM (DB9, RS232/422/485), 1 x Multi-port (DB15, 4xDI, 4xDO, CAN, DR signal), 1 x Ext. (DB15, reserved), 1 x PR-SMA for GNSS, 4 x PR-SMA for WLAN

I/O ports, Rear-plate

- 2 x Audio jack (Line-out & MIC-in)
- 3 x USB 3.2 type A, 1 x USB 2.0 type A
- 1 x HDMI, 1 x DP, 4 x PoE+ (2.5GbE, RJ45), 1 x GbE, 9~36VDC (3-pin Phoenix)
- 4 x SMA for WWAN, 4 x antenna holes reserved

I/O ports, side-plate

2 x SIM slots (SIM1-1, SIM2-1)

Dimensions & Weight

- 210.0mm x 173.0mm x 75.0mm (w/o mount brackets)
- 234.0mm x 173.0mm x 81.0mm (w/ mount brackets)
- Weight: 3.1kg

Environment

- Operating temperatures: -30°C~60°C (15W TDP & PoE)
- Storage temperatures: -40°C~85°C
- Relative humidity: 10%~95% (non-condensing)

Vibration & Shock

- · Vibration in operating:
 - MIL-STD-810H, 514.8C Procedure 6, Category 4
- IEC 60068-2-64: 2.0g@5~500Hz
- · Vibration in storage:
- MIL-STD-810G, 514.6E Procedure 1, Category 24, 7.7g
- Shock:
- MIL-STD-810G, 516.6 Procedure I, trucks and semi-trailers=40g
- Crash hazard: Procedure V, ground equipment=75g

Certifications

CE approval, FCC Class A, UKCA, E13 Certified

Operating System

- Windows 10 64-bit/Windows 10 IOT 64-bit, Windows 11
- Linux (Ubuntu 18.04)

External Cable (option)

DB15 multi-port adapter cable, 20cm

Ordering Information

VTC 7260-5C4 (P/N: 10V00726001X0)

Intel® Tiger-lake UP3 Core i5, 4 x PoE+, 1 x GbE, 1 x USB 2.0, 3 x USB 3.2, 2 x RS232/422/485, 1 x 2.5"SSD, 1 x mSATA, 9~36VDC/IGN

VTC 7260-7C4 (P/N: 10V00726000X0)

Intel® Tiger-lake UP3 Core i7, 4 x PoE + 1 x GbE, 1x USB 2.0, 3 x USB 3.2, 2 x RS232/422/485, 1 x 2.5"SSD, 1 x mSATA, 9~36VDC/IGN

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