# **VTC 7110**





# **Main Features**

- Build-in Intel® Core™ i7 2610UE 1.5G Hz processor
- Support two Ethernet LAN ports
- Removal 2.5" SSD tray
- Optional CAN bus in support of SAE J1939 or J1708
- · Optional isolation digital input and output

- 9~36V wide range DC power input
- Smarter ignition power on/off, delay-time and low voltage protection
- Optional 4-channel POE
- Rugged fanless design to meet MIL standard

# **Product Overview**

VTC 7110, adopting the high performance processor, Intel® Core™ i7, is a new generation of VTC series. In additional to keep the advantage of existing VTC series, it offers dual LAN ports for redundancy, two high speed interface for storage, 2.5" SATA and CFast. The storage is easily accessible from the front side for maintenance concern. Furthermore, it offers the CAN bus for heavy duty truck such as SAE J1939/ J1708. The outstanding is its flexible designs to reserves the space and interface to extend the required features for application such as 8-channel POE with second storage interface. With the rich features, VTC7110 can satisfy your demand in vehicle applications.

# **Specifications**

## **Main Chipset**

• QM67

#### CPU

• Intel® Core™ i7 2610UE 1.5GHz

#### Memory

• One 204-pin SO-DIMM DDR3 1333 up to 4GB

# **Communication Expansion**

- Mini-PCle socket (PCle + USB) x 1 (for optional WLAN module)
- Mini-PCle socket (USB) x 1 (for optional 3.5G module)
- Optional Bluetooth module
- On board Built-in GPS module or optional GPS with dead reckoning

### Features Expansion via Optional I/O Board

- 4-channel POE with one 2.5" SSD tray
- 16-channel isolation digital inputs and outputs, and one DB9 for SAE J1939 or SAE J1708

#### I/O Interface-Front

- 5 x LED's for power stand-by (on power button), power status, HDD, WLAN/ HSDPA and GPIO
- 1 x power button
- 2 x USB port
- 2 x SIM card socket
- 1 x system reset button
- 1 x Mic-in, 1 x Line-out

- 1x CFast with protection cover
- 1 x accessible 2.5" SSD tray (HDD)

#### I/O Interface-Rear

- 2 x USB 2.0 host type A connector
- 1 x VGA
- 1 x DB26 pin connector (LVDS, USB,12V, 5V) or optional with DVI-D
- 2 x RJ45 with LEDs for 10/100/1000Mbps Ethernet
- 2 x DB9 male connector (1 x RS-232; 1x 485/422) or optional with CAN bus to replace one RS-232
- 1 x DB9 female connector for GPIO Input (source type; 0~30V)
  - Output (sink type; 20mA max)
- 1 x Mic-in and 1 x Line-out
- 12V@4A DC output connector (TBD)
- 2 pin switch power output directly from vehicle source (@4A)
- Reserved for 4 optional antenna hole for GPS/ WWAN/ WLAN
- 1 x 3-pin power input connector (9~36V DC-in)

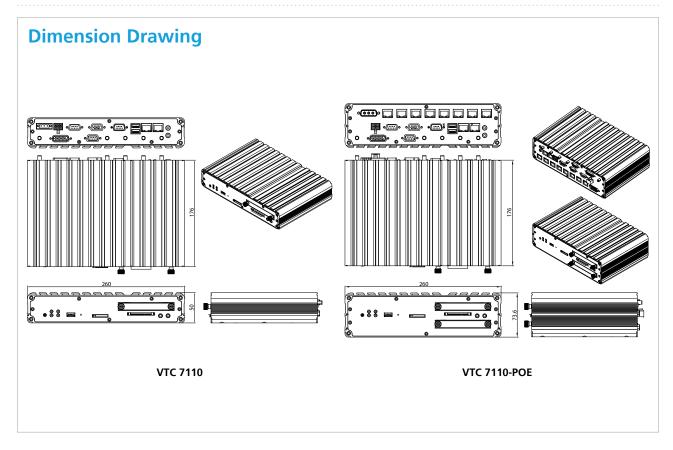
## **Expandable Storage**

- 1 x 2.5" SATA tray
- 1 x CFast

#### **Power Management**

- Selectable boot-up & shut-down voltage for low power protection by software
- Setting 8-level on/off delay time by software





- Status of ignition and low voltage status can be detected by software
- Support S3/ S4 suspend mode

#### **Dimensions**

• VTC 7110-B:

260mm (W) x 176mm (D) x 50mm (H) (10.24"x 6.93"x 1.97") 2.19 Kg (4.82 Lb)

• VTC 7110-C4 and VTC 7110-D1 260mm (W) x 176mm (D) x 73.6mm (H) (10.24 "x 6.93" x 2.9")

# Construction

• Aluminum enclosure with fanless design

# Environment

• Operating temperatures:

Ambient with air:

- -30°C to 50°C
- Storage temperatures: -35°C to 85°C
- Relative humidity: 10% to 90% (non-condensing)
- Vibration (random): 2g@5~500 Hz with SSD (in operation)
- · Vibration (with SSD):

Operating: MIL-STD-810F, Method 514.5, Category 20, ground vehicle- highway truck

Storage: MIL-STD-810F, Method 514.5, Category 24, integrity test

• Shock (with SSD):

Operating: MIL-STD-810F, Method 516.5, Procedure I, trucks and semi-trailers=20g

Crash hazard: MIL-STD-810F, Method 516.5, Procedure V, ground equipment=75g

#### **Protection Grade**

• Optional IP65 available upon request

# Certifications

- CE approval
- FCC Class A
- e13 Mark

# **Ordering Information**

• VTC 7110-B (P/N: 10V00711000X0)

Intel® Core $^{\text{TM}}$  i7 1.5GHz processor, 1GB DDR3, built-in GPS module, DB26 for proprietary LVDS and 2 DB9 in support RS-232 and RS-485/422

• VTC 7110-D1 (P/N: 10V00711001X0)

VTC 7110 with isolation digital inputs and outputs, and SAEJ1939 support

• VTC 7110-C4 (P/N: 10V00711002X0)

VTC 7110 with 4-channel POE and additional one 2.5" SSD tray

#### Optional Accessories

Description
VMD 1000-B 7" monitor w/ touch screen
VMD1001-B 7" Monitor w/ touch screen, VGA interface
VMD2000-B 8" Monitor w/ touch screen
VMD2001-B 8" Monitor w/ touch screen, VGA interface
VMD2002-B 8" Monitor w/ touch screen, cable integration
VTK 61B, back-up battery kit for 4 hours in system full loading
Wireless mini card kit, Ralink 802.11b/g/n 2T2R, QCOM: Q802XKN5F, w/ antenna & cable (without assembly in NEXCOM)
Sierra MC8790V kit, GPRS/ UMTS/ HSDPA, w/ internal cable, antenna & packing (without assembly in NEXCOM)
Bluetooth kit, QCOM: QBTM400-01(V7), w/ antenna & cable (without assembly in NEXCOM)
Internal cable for GSM/ WLAN/ GPS antenna connection MOQ: 20 pcs
GPS antenna/ 5m/ SMA180P
GSM/ GPRS antenna, SMA, support 850/ 900/ 1800/ 1900
GPS+GSM combo antenna 5M/ SMA180P
GPRS/ UMTS/ HSDPA antenna, SMA, support 850/ 900/ 1800/ 1900/ 2100

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