

# VTC 7110-B

Intel® Core™ i7 Fanless In-Vehicle Computer



## Main Features

- Build-in Intel® Core™ i7 2610UE 1.5G Hz processor
- Support two Ethernet LAN ports
- Removal 2.5" SSD tray and CFast storage
- Optional CAN bus in support of SAE J1939 or J1708
- Support two SIM card slots
- 9~36V wide range DC power input
- Smarter ignition power on/off, delay-time and low voltage protection
- Support 4 digital input and 4 digital output
- Rugged fanless design to meet MIL standard
- Internal wireless communication (3.5G, GSM/ GPRS, WLAN, BT)

## Product Overview

VTC 7110-B, adopting the high performance processor, Intel® Core™ i7, is a new generation of VTC series. In addition 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 and support 4 digital input and 4 digital output for device connectivity.. With the rich features, VTC7110-B 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-PCIe socket (PCIe + USB) x 1 (for optional WLAN module)
- Mini-PCIe socket (USB) x 1 (for optional 3.5G module)
- Optional Bluetooth module
- On board Built-in GPS module or optional GPS with dead reckoning

### 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
- 1 x system reset button
- 2 x USB port
- 2 x SIM card sockets
- 1 x Mic-in, 1 x Line-out
- 1 x CFast with protection cover
- 1 x 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; 1 x 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
- 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)

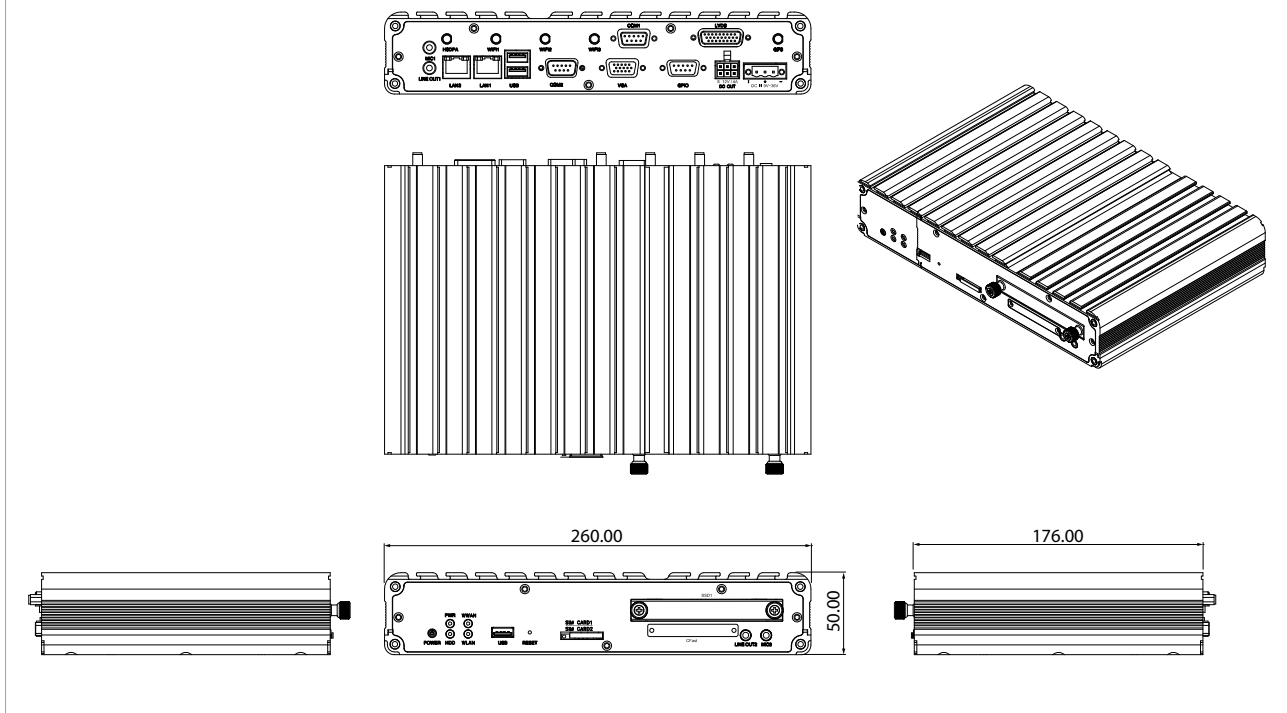
### Expandable Storage

- 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

## Dimension Drawing



### Dimensions

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

### 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™ 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

### ♦ Optional Accessories

Part No.	Description
10VD0100000X0	VMD 1000-B 7" monitor w/ touch screen
10VD0100101X0	VMD1001-B 7" Monitor w/ touch screen, VGA interface
10VD0200000X0	VMD2000-B 8" Monitor w/ touch screen
10VD0200100X0	VMD2001-B 8" Monitor w/ touch screen, VGA interface
10VD0200200X0	VMD2002-B 8" Monitor w/ touch screen, cable integration
10VK0061B00X0	VTK 61B, back-up battery kit for 4 hours in system full loading
10VK0006013X0	Wireless mini card kit, Ralink 802.11b/g/n 2T2R, QCOM: Q802XKN5F, w/ antenna & cable (without assembly in NEXCOM)
10VK0006000X0	Sierra MC8790V kit, GPRS/ UMTS/ HSDPA, w/ internal cable, antenna & packing (without assembly in NEXCOM)
10VK0006007X0	Bluetooth kit, QCOM: QBTM400-01(V7), w/ antenna & cable (without assembly in NEXCOM)
60233SAM03X00	Internal cable for GSM/ WLAN/ GPS antenna connection MOQ: 20 pcs
60233SAM05X00	GPS antenna/ 5m/ SMA180P
60233SAM07X00	GSM/ GPRS antenna, SMA, support 850/ 900/ 1800/ 1900
60233SMA30X00	GPS+GSM combo antenna 5M/ SMA180P
60233SAM17X00	GPRS/ UMTS/ HSDPA antenna, SMA, support 850/ 900/ 1800/ 1900/ 2100