



Main Features

- ♦ Intel® Atom™ N270 processor
- ♦ Availability of GSM/GPRS/UMTS/HSDPA/GPS/BT
- ♦ e13 mark certification
- ♦ Power ignition on/off and delay-time control
- ♦ Low voltage protection
- ♦ High anti-vibration performance

Product Overview

The VTC 2000 is an economic version of car pc for use in transportation application. With Intel® Atom™ processor low power feature, the VTC 2000 system is designed in a very compact form factor, yet maintaining the industrial requirements for high availability, wide operation temperature range, and better vibration protection. The design also follows the in-vehicle industrial standard, like eMark. The integrated power ignition functions are one of the unique points to differentiate VTC 2000 from off-the-shelf assembled products.

The GPS is an integrated function of VTC 2000. With expansion capability, the 3.5G, bluetooth, etc., can be added to cover varieties of application requirements.

Specifications

Main Chipset

- ♦ 945GSE/ICH-7M

CPU

- ♦ Intel® Atom™ N270 1.6GHz

Memory

- ♦ DDR2 400/533 SO-DIMM up to 2GB

Expansion

- ♦ 1 x Bluetooth module (optional)
- ♦ 1 x GPS module
- ♦ 2 x Mini PCIe Socket (for WLAN, GPRS/3G modules)
- ♦ 1 x internal SIM card socket

Storage

- ♦ 1 x CF socket
- ♦ 1 x 2.5" SATA HDD bay

I/O Interface-Front

- ♦ 2 x LED for Power & HDD

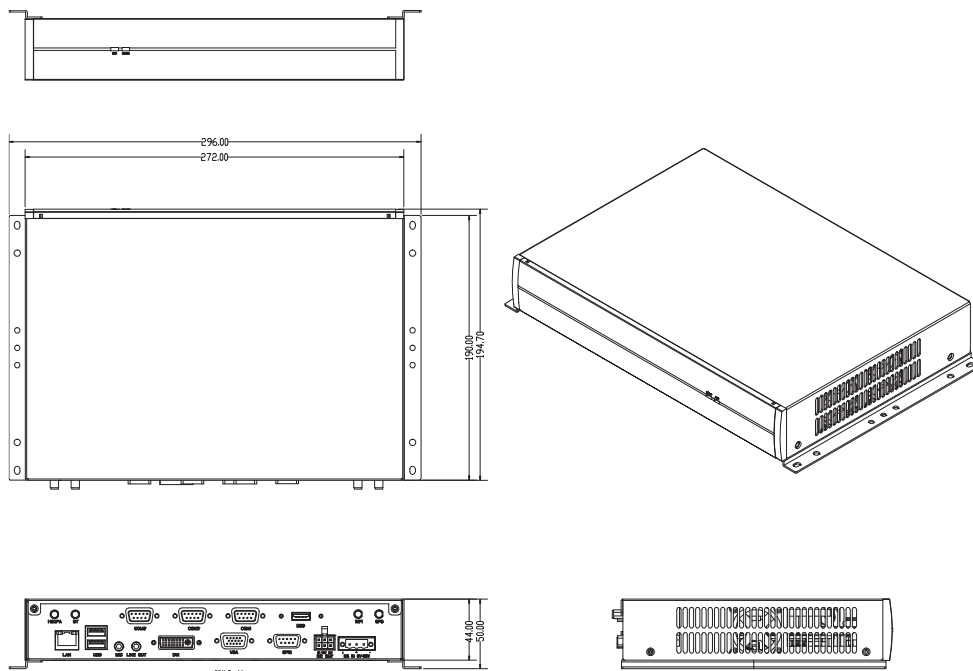
I/O interface-Rear

- ♦ 2 x RS232
- ♦ 1 x RS232/485 w/auto flow control
- ♦ 4 x SMA-type antenna for GPS, WLAN, 3.5G/GPRS and BT
- ♦ 3 x USB2.0
- ♦ 1 x VGA
- ♦ 1 x DVI-D
- ♦ 1 x 10/100/1000 Ethernet
- ♦ 1 x Mic-In & 1 Line-Out
- ♦ 1 x GPIO (4 input & 4 output)
- ♦ 6V~36V DC thru 3-pin connector (ignition, power & ground)
- ♦ +5V/+12V DC output, SMBus
- ♦ Power button

Power management

- ♦ Boot-up & shut-down voltage setting selectable 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

Dimension Drawing



Dimensions

- 272 mm (D) x 195 mm (W) x 44 mm (H)

Environment

- Operating Temperature
-10°C~+45°C
- Storage Temperature
-20°C~+80°C @ relative humidity 10% to 90% non-condensing
- Vibration (in operation)
2G @ 5-500Hz random with CF/SSD
1G @ 5-500Hz random with Automotive HDD

Certifications

- CE approval
- FCC class A
- e13 Mark

Ordering Information

- **VTC 2000 (P/N: 10V00200000X0)**
Intel® Atom™ N270 1.6GHz processor, 1GB DDR2, GPS module and GPS antenna
- **Optional Accessories**

Part No.	Description
10VK0006006X0	VTK60-WLAN-02, MINI-PCIe WLAN KIT (QCOM Q802XKN, W/ANTENNA & CABLE)
10VK0006000X0	Sierra MC8790V, GPRS/UMTS/HSDPA, w/internal cable and antenna. w/o packing
73H7800G09X00	Seagate 2.5" SATA, automotive HDD 80G, 5400rpm, -30°C-85°C, vibration 2G
10Z00330200X0	NAK 3302, GSM/GPRS Mini PCIe module