

## Main Features

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

## Product Overview

VTC 2000 is designed as a low cost, ultra reliable solution for in-vehicle digital signage applications. Based on a low power Intel® Atom™ processor, the VTC 2000 boasts high availability, a wide operating temperature and improved vibration protection. In addition, the design is certified to eMark standards enabling it to be utilized within vehicles. The integrated power ignition feature is one of the unique points that differentiate VTC 2000 from off-the-shelf assembled products. The VTC 2000 has an integrated GPS function and can be further expanded with WLAN and Bluetooth module.

## Specifications

### Main Chipset

- 945GSE/ ICH-7M

### CPU

- Intel® Atom™ N270 1.6GHz

### Memory

- DDR2 667 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 RS-232
- 1 x RS-232/ 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 x 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

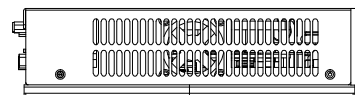
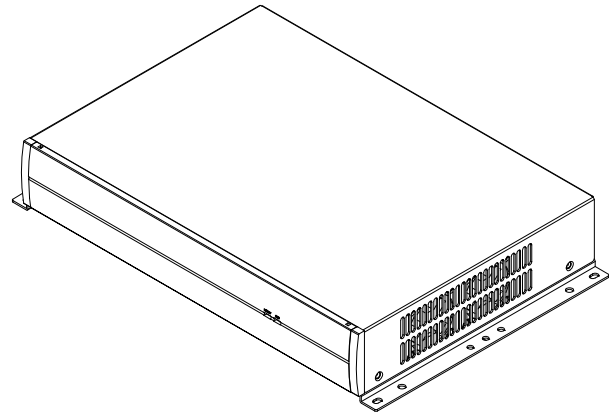
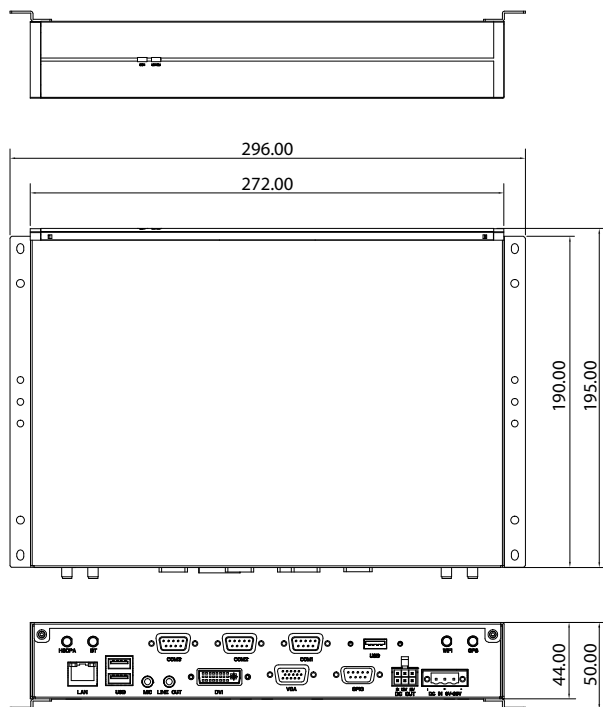
### Power Management

- 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

### Dimensions

- 272mm (W) x 195mm (D) x 44mm (H) (10.7" x 7.68" x 1.73")
- 2.2 Kg (4.85 Lb)

## Dimension Drawing



### Environment

- Operating temperature:  
-10°C to +45°C
- Storage temperature:  
-20°C to +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
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)
10VK0006004X0	GPS kit, GlobalSat: EM-313 w/ antenna & cable (without assembly in NEXCOM)
7400120002X00	Power adapter FSP: 120-AAB (N09001), 120W 19V/ 6.3A
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