



Main Features

- ◆ Intel® Atom™ N270 processor
- ◆ Availability of GSM/GPRS/UMTS/HSDPA/GPS/BT
- ◆ e13 mark EN50155 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 compact VTC 2000 boasts high availability, a wide operating temperature and improved vibration protection.

In addition, the design is certified to eMark and EN50155 standards enabling it to be utilized within trains and other 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 533/667 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

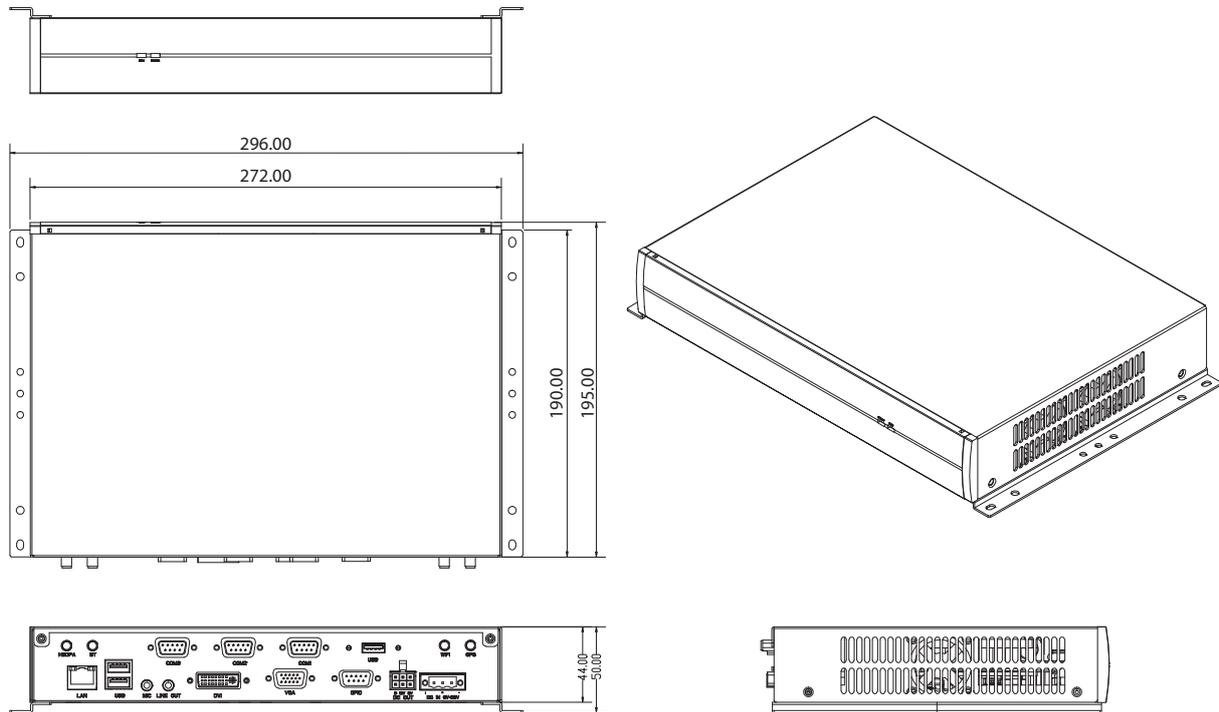
- ◆ 2 x RS232
- ◆ 1 x RS232/485 w/ auto flow control
- ◆ 4 x SMA-type antenna for GPS, WLAN, 3.5G/GPRS and BT
- ◆ 3 x USB2.0
- ◆ 1 x VGA
- ◆ 1 x DVI-D
- ◆ 1 x 10/100/1000 Ethernet
- ◆ 1 x Mic-In & 1 Line-Out
- ◆ 1 x GPIO (4 input & 4 output)
- ◆ 6V-36V DC thru 3-pin connector (ignition, power & ground)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

- 272mm (W) x 195mm (D) x 44mm (H) (10.7" x 7.68" x 1.73")

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
- EN50155

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
10Z00330200X0	NAK3302, GSM/GPRS Mini-PCIe card module for VTC6xxx & VTC2xxx series
10VK0006006X0	Wireless Mini Card Kit, Ralink 802.11b/g/n 2T3R, QCOM: Q802XKN, 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
60233SAM30X00	GPS+GSM combo antenna 5M/SMA180P
60233SAM17X00	GPRS/UMTS/GPRS antenna, SMA, support 850/900/1800/1900/2100