



Main Features

- ♦ Fan-less and Rugged Design Platform
- ♦ Low Battery Power Protection
- ♦ Integrated GSM/GPRS and GPS for Mobile Communication and Navigation
- ♦ Power Ignition Control/ Delay Time Setting
- ♦ Dual Display for CRT and LVDS Output
- ♦ PC/104+ Expansion (support PC104plus card x3)
- ♦ NVRAM Storage Back up
- ♦ Wide Range DC input from +6 to +36 VDC (Selectable)
- ♦ ETX Platform for Quick Customization
- ♦ (Option) Fan/Vibration Kit, 8.4" Monitor, Back-Up Battery, Protection Box for Anti-Dust and Anti-Water Protection

Product Overview

The VTC 3300E is specifically designed to adapt various power supplying conditions in vehicle environment. The user can control and manage the system's power, such as setting the system to boot after the car engine started, keep the system running after car engine turned off.

The VTC 3300E in-vehicle system provides out of the box solution that suits for immediate implementation. With rugged structure design, the VTC 3300E is designed to withstand dramatic vibration and a wide range of temperature with wide varieties of built-in communication and I/O ports for transportation. The VTC 3300E has a reserved space to integrate the GSM/GPRS and GPS function board.

Specifications

Main Board

- ♦ ICES 102 ETX Module
- ♦ Support ETX Module with Intel® Pentium® M/ Celeron® M processor, VGA/ISA/ PCI/IDE/LVDS/Audio/COM/LPT/USB2.0/LAN interface

Main Memory

- ♦ 1 x 200-pin SO-DIMM socket for up to 1GB Non-ECC Non-Registered DDR SDRAM memory

I/O Interface-Front

- ♦ Power / HDD /GSM Status LEDs
1 LED, programmable by user's definition purposes
- ♦ 1 x PCMCIA
- ♦ 1 x External access CompactFlash socket (2nd Compact Flash, IDE)
- ♦ 1 x USB 2.0
- ♦ 1 x System Reset button
- ♦ 1 x System Power-on Switch
- ♦ GSM Audio output/Mic In with 1x RJ-11 to headset
- ♦ 1 x GSM SIM-Card socket
- ♦ 1 x Reset button for integrated GSM/GPRS and GPS Module
- ♦ Antenna Mounting Holes for 3x SMA-type (WLAN / GPS /GSM)

I/O Interface-Rear

- ♦ 4 x COM ports:
3 x DB9 for COM3, COM4 and COM6 (RS-232)
1 x DB9 for COM5 (RS-232/422/485, selectable, with auto flow control)
- ♦ 1 x RJ45 with LED for 10/100M bps Ethernet
- ♦ 2 x USB 2.0 ports
- ♦ 1 x DB15 VGA
- ♦ 1 x DB26 for LVDS, 1x USB 2.0 and 12V back-light voltage
- ♦ 1 x DB9 Female for digital I/O with 4-input and 4-output
- ♦ Audio interface with Line-in, Line-out, and Mic-in
- ♦ +6 to +36V DC (selectable) power input with 3-pin power input connector (Ignition, Power, Ground)
- ♦ +5V DC and +12V DC power output, SM Bus
5V DC (0.5A), 12V DC (0.5A), with VTK 33M-01
5V DC (1A), 12V DC (1A), without VTK 33M-01

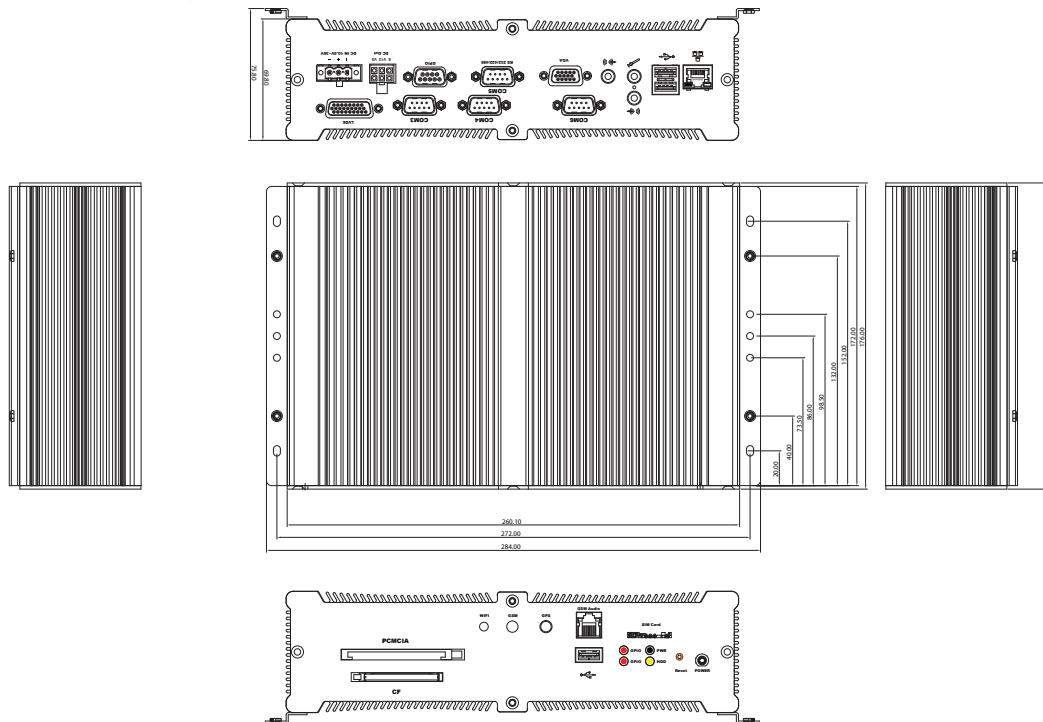
Internal Expansion

- ♦ 1 x PC/104+
- ♦ 1 x Internal CompactFlash socket (1st Compact Flash)
- ♦ 1 x Internal 2.5" HDD drive bay
- ♦ 1 x NVRAM socket (up to 512KB)
- ♦ 1 x Mini-PCI socket

Dimensions

- ♦ 260 mm (W) x 176 mm (D) x 70 mm (H)

Dimension Drawing



Construction

- Aluminum chassis with fan-less design

Environment

- Operating temperature:
Ambient with air flow : -15°C to 60°C (Celeron M 600/1G)
-15°C to 50°C (Pentium M 1.6G/1.8G)
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 90% (Non-condensing)
- Vibration (w/o vibration kit)
2G @ 5-500Hz random with CF
1G @ 5-500Hz random with Automotive HDD
MIL-STD-810F Method 514.5 C-17 Category 20 Ground Vehicle-Highway Truck (in operation)
- Vibration (w/ vibration kit)
3G @ 5-500 Hz random with CF
2G @ 5-500 Hz random with Automotive HDD
- Shock:
Operating: MIL-STD-810F, Method 516.5, Procedure I, Trucks and MIL-STD-810F Method 514.5 C-17 semitrailers=20g
Non-Operating: (Crash Hazard) MIL-STD-810F, Method 516.5, Procedure V, Ground equipment= 75g

Certifications

- CE approval
- FCC
- e13 Mark

Ordering Information

- VTC 3300E-SKT (P/N: 10V00330009X0)**
VTC 3300E-SKT, Barebone. w/o NAK3300, CPU
- VTC 3300E-C65 (P/N: 10V00330007X0)**
VTC 3300E-C65, w/ Celeron M 600MHz CPU, Memory 512MB w/o NAK3300
- VTC 3300E-373 (P/N: 10V00330008X0)**
VTC 3300E-373, w/ Celeron M 1GHz CPU, Memory 512MB, w/o NAK3300

Optional Accessories

Part No.	Description
711B01GC42X00	INTEL CELERON-M 370, 1.5G/1MB/400 FC-PGA, INTEL:RH80536NC0211M
7234M25608X00	DDR400 SO-DIMM,PROMOS,industrial,-40°C to +85°C, 32Mx8, 256MB, 200PIN, W/O ECC & REG,H:1.25", Apacer:76.8325G.105,PBFFREE
7234M51205X00	DDR400 SO-DIMM,PROMOS,industrial,-40°C to +85°C, 64Mx8, 512MB, 200PIN, W/O ECC & REG,H:1.25", Apacer:76.9325G.113,PBFFREE
1Z00330000X0	NAK 3300, Siemens MC55 GSM/GPRS tri-band module and U-blox LEA-5S GPS module with Front Panel
10Z00330100X00	NAK 3301, Sierra 8790V GPRS/UMTS/HSDPA+Global Sot EM313 GPS with Front Panel
7510LAN001X00	Wireless MiniPCI card,802.11 a/b/g w/antenna& cable
60233SAM05X00	GPS antenna/5m/SMA180P
60233SAM07X00	GSM/GPRS Antenna/ SMA, support 850/900/1800/1900
60233SAM17X00	GPRS/UMTS/HSDPA Antenna/SAM, support tri-band 850/1900/2100MHz & quadband 850/900/1800/1900MHz
10VK0033V00X0	VTK 33V
73AE512M02X00	CF card, 512MB, -40°C to 85°C, PQI (#AC60-5120R0444)
73AE001G02X00	CF card, 1GB, -40°C to 85°C, PQI (#AC60-1030R0444)
73H1400G20X00	Fujitsu 2.5", automotive HDD, 40GB, 4200rpm, -20°C to 80°C, vibration 1G, #MHW2040AC
73H1400G21X00	Seagate 2.5", automotive HDD, 40GB, 5400rpm, -30°C to 85°C, vibration 2G, #ST940817AM
73H1800G13X00	Seagate 2.5", automotive HDD 80GB, 5400rpm, -30°C to 85°C, vibration 2G, #ST980817AS
7400120003X00	VTC3300 POWER ADAPTER w/ US type power cord FSP:120-AAB(N09002),120W 19V/6.3A
7400120004X00	VTC3300 POWER ADAPTER w/ Schukotype power cord FSP:120-AAB(N09003),120W 19V/6.3A
7400120005X00	VTC3300 POWER ADAPTER w/ UK type power cord FSP:120-AAB(N09004),120W 19V/6.3A
7400120002X00	VTC3300 POWER ADAPTER FSP:120-AAB(N09001),120W 19V/6.3A