VTC 6201

Main Features

- Build-in Intel® Atom™ D510 Dual Core 1.66GHz processor
- Support three Ethernet LAN Ports
- Dual Sim card slots available for vary carriers
- Variety Wireless Communication (WLAN/BT/WWAN)
- Dual VGA output (clone mode)

- PCI-104 and mini card expansion interface
- 8~60V wide range DC power input
- Smarter ignition power on/ off, delay-time and low voltage protection
- Rugged fanless design to meet MIL standard

Product Overview

With the launch of VTC 6201, VTC series has extended its market from in-vehicle to rail application. Keep the same mechanical housing as VTC 6200-NI and utilize Intel® Atom™ D510 processor, VTC 6201 additionally supports multiple Ethernet LAN ports and dual sim card slot. Moreover, it provides the optional M12 connectors to replace RJ45 to enforce its connectivity in the server vibration environment.

Specifications

Main Chipset
- ICH-8M

CPU
- Intel® Atom™ D510 Dual Core 1.66GHz

Memory
- DDR2 667/ 800 one 200-pin SO-DIMM up to 2GB

Expansion
- Mini-PCIe socket (PCIe + USB) x 1 (for WLAN module)
- Mini-PCIe socket (USB) x 1 (for 3.5G module)
- 1 x Bluetooth module (optional)
- 1 x GPS module
- PCI-104 x 1

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
- 2 x USB port
- 2 x SIM card socket
- 1 x System reset button
- 1 x Mic-in, 1 x Line-out
- 4 x SMA Antenna holes for WLAN/ HSDPA/ BT

I/O Interface-Rear
- 2 x USB 2.0
- Dual VGA Output (clone mode)
- 2 x RS232 (COM1/2)
- 1 x RS485 (COM3)
- 3 x GigaLAN RJ45 with LED connectors (optional M12 connectors x 2)
- 1 x LVDS (DB26 female connector with backlight power (+12V) and USB 2.0 x 1)
- 1 x Mic-in, 1 x Line-out
- **1 x SMA antenna hole for GPS**
- 5V/ 1A, 12V/ 1A DC power output, can be controlled by S/W
- 8V~60V Wide Range DC power Input, power ignition signal control (ignition, power & ground)
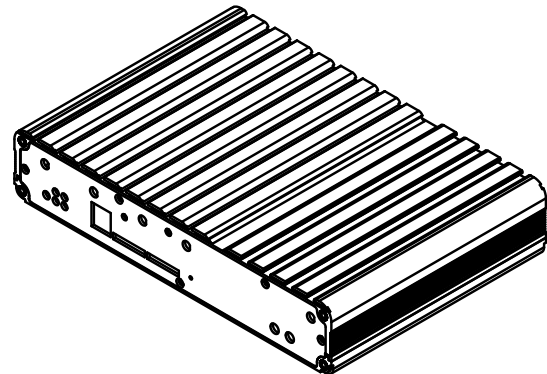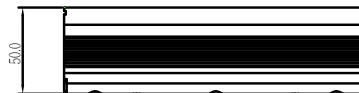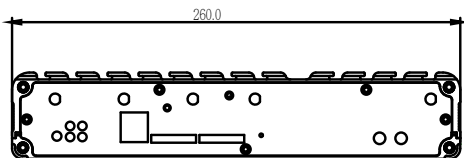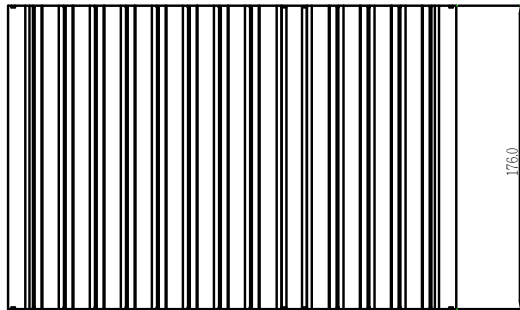- GPIO x 1 (4 input & 4 output)
- FUSE

Expandable Storage
- SATA 2.5" HDD Bay x 1 or SATA DOM x 1

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 60°C
  (SSD) -30°C to 50°C (HDD)
- Storage temperatures: -40°C to 80°C
- Relative humidity: 10% to 90% (Non-condensing)
- Vibration (random): 2g@5~500 Hz with SSD; 1g@5~500 Hz with HDD (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
- Compliance with EN50155
- Optional protection kit for IP65 rating

Certifications
- CE approval
- FCC Class B
- e13 Mark

Ordering Information

- **VTC 6201 (P/N: 10V00620100X0)**
  Intel® Atom™ D510 1.66GHz processor, 1GB DDR2, GPS module and GPS antenna and in support of three GigaLAN and two sim card slots

- **VTC 6201-M (P/N: 10V00620101X0)**
  Intel® Atom™ D510 1.66GHz processor, 1GB DDR2, GPS module and GPS antenna and in support of two 10/100Mbps Ethernet LAN port with M12 connectors and two sim card slots

- **Optional Accessories**

Part No.	Description
10VD0100000X0	VMD 1000-B 7" monitor w/ touch screen
10VK33M0100X0	VTK 33M-01 8.4" monitor w/ touch screen
10VK0033V00X0	VTK 33V, anti-vibration/ fan kit
10VK0061B00X0	VTK 61B, back-up battery kit for 4 hours in system full loading
10VK0060P00X0	VTK 60P, IP65 protection kit for VTC 6000
10VK0061P00X0	VTK 61P, IP65 protection kit for VTC 61XX series & VTC 6200-NI
10Z00330200X0	NAK 3302, GSM/ GPRS mini-PCIe card module for VTC 6xxx & VTC 2xxx series
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