

VTC 6201

Intel® Atom™ D510 Fanless In-vehicle Computer
with three GigaLAN and two sim card slots support



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. Keeping 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

CPU

- ♦ Intel® Atom™ D510 Dual Core 1.66GHz

Main Chipset

- ♦ ICH8M

Memory

- ♦ One 200-pin DDR2 667/ 800MHz SO-DIMM slot (up to 2GB)

Expansion

- ♦ 1 x Mini-PCIe socket (PCIe + USB) for WLAN option
- ♦ 1 x Mini-PCIe socket (USB) x 1 for WWAN option
- ♦ 1 x Bluetooth module for option
- ♦ 1 x Bundle GPS module or optional GPS with dead reckoning
- ♦ 1 x PCI-104

I/O Interface-Front

- ♦ 1 x Line-out, 1 x Mic-in
- ♦ 1 x System reset button
- ♦ 2 x SIM card sockets
- ♦ 2 x USB 2.0 host type A connector
- ♦ 1 x Power button
- ♦ 4 x Antenna hole reserved for SMA-type antenna connector (WWAN/ WLAN/ BT)
- ♦ 4 x LED's for power, storage, WLAN/ WWAN and GPIO

I/O Interface-Rear

- ♦ 1 x 8~60VDC input with ignition and 23W typical power consumption
- ♦ 1 x 5V/1A and 12V/1A DC output, SMBus
- ♦ 2 x DB15 VGA (clone mode)
- ♦ 2 x USB 2.0 host type A connector
- ♦ 1 x Line-out, 1 x Mic-in
- ♦ 3 x RJ45 with LED's for 10/ 100/ 1000Mbps Ethernet (optional M12 connectors x 2)
- ♦ 2 x DB9 RS-232 (COM1, COM2)
- ♦ 1 x DB9 RS-485 (COM3)
- ♦ 1 x DB26 LVDS interface with 12V and USB 2.0
- ♦ 1 x SMA antenna hole for GPS
- ♦ 1 x DB9 FEMALE CONNECTOR FOR 4GPI and 4GPO
- ♦ 1 x FUSE

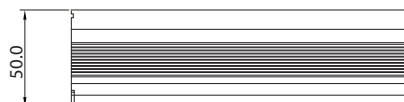
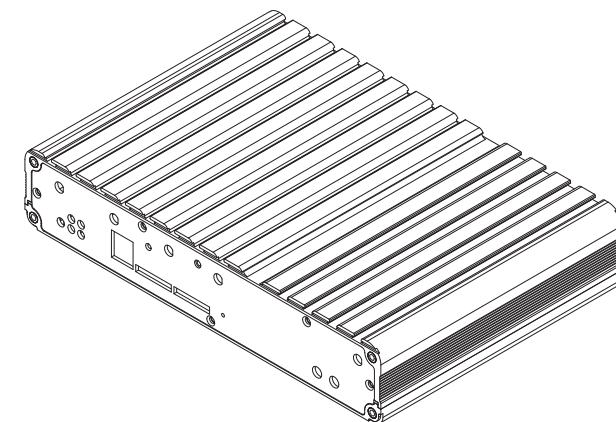
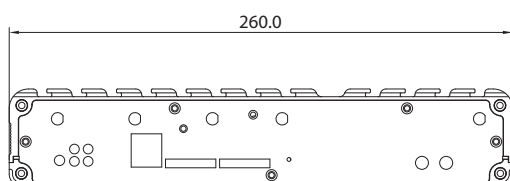
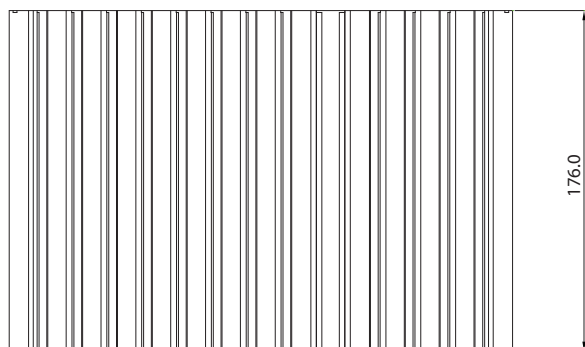
Expandable Storage

- ♦ 1 x 2.5" SATA II HDD Bay 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



Operating System

- Windows XP/ WES2009
- WES 7E

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

- Optional protection kit for IP65 rating

Standards/ 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
10VD0100101X0	VMD 1001-B 7" Monitor w/ touch screen, VGA interface
10VD0200000X0	VMD 2000-B 8" Monitor w/ touch screen
10VD0200200X0	VMD 2002-B 8" Monitor w/ touch screen, cable integration
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
10VK0006013X0	Wireless mini card kit, Ralink 802.11b/g/n 2T2R, QCOM: Q802XKN5F, w/ antenna & cable (without assembly in NEXCOM)
10VK0WWAN01X0	Cinterion PHS8-P kit, Five bands, UMTS/HSPA (850/800, 900, 1900 and 2100 MHz), Quad-Band GSM w/ internal cable, antenna & packing (without assembly in NEXCOM)
10VK00GPS00X0	SKYTRAQ GPS + GLONASS, w/ antenna & cable
10VK0006007X0	Bluetooth kit, QCOM: QBTM400-01(V7), 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 and 2100 MHz