

VTC 6200

Intel® Atom™ D510 Fanless In-Vehicle Computer



Main Features

- Built-in Intel® Atom™ D510 Dual Core 1.6GHz processor
- Internal wireless communication (3.5G, GSM/ GPRS, WLAN, BT)
- Smarter ignition power on/off, delay-time and low voltage protection
- PCI104, MiniPCIe socket, and proprietary PCIe module expansion
- 8~60V wide range DC power input
- Dual VGA output (clone mode)
- Rugged fanless design to meet IP65 and MIL standard
- Flexible chassis design for PCI-104 and HDD can be used at the same time
- Support 2 x isolated RS-232 ports (COM1, COM2)
- Isolated GPIO

Product Overview

NEXCOM's popular VTC Series range has been extended with the launch of VTC 6200, a dedicated computing solution for in-vehicle surveillance applications. The VTC 6200 utilizes the powerful video processing capability of the of Intel® Atom™ D510 processor which can support Dual Core technology. With additional Video Capture Module, VTC 6200 is the ideal solution for in-vehicle surveillance applications.

Specifications

CPU

- Intel® Atom™ D510 Dual Core 1.6GH

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 x 1

I/O Interface-Front

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

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
- Fuse
- 1 x DB26 LVDS interface with 12V and USB2.0
- 1 x DB9 female connector for isolated 4GPI and 4GPO
- 2 x DB9 isolated RS-232 port (COM1, COM2)
- 2 x DB9 RS-232 (COM3, COM4)
- 1 x DB9 isolated RS-485 (COM5)
- 2 x DB15 VGA (clone mode)
- 1 x Line-out, 1 x Mic-in
- 2 x USB 2.0 host type A connector
- 1 x RJ45 with LEDs for 10/ 100/ 1000Mbps Ethernet
- 1 x SMA-type GPS antenna connector
- Mounting hole reserved:
For RF Coax to SMA Bulkhead x 1 (for GPS) reference, signal connect to function board

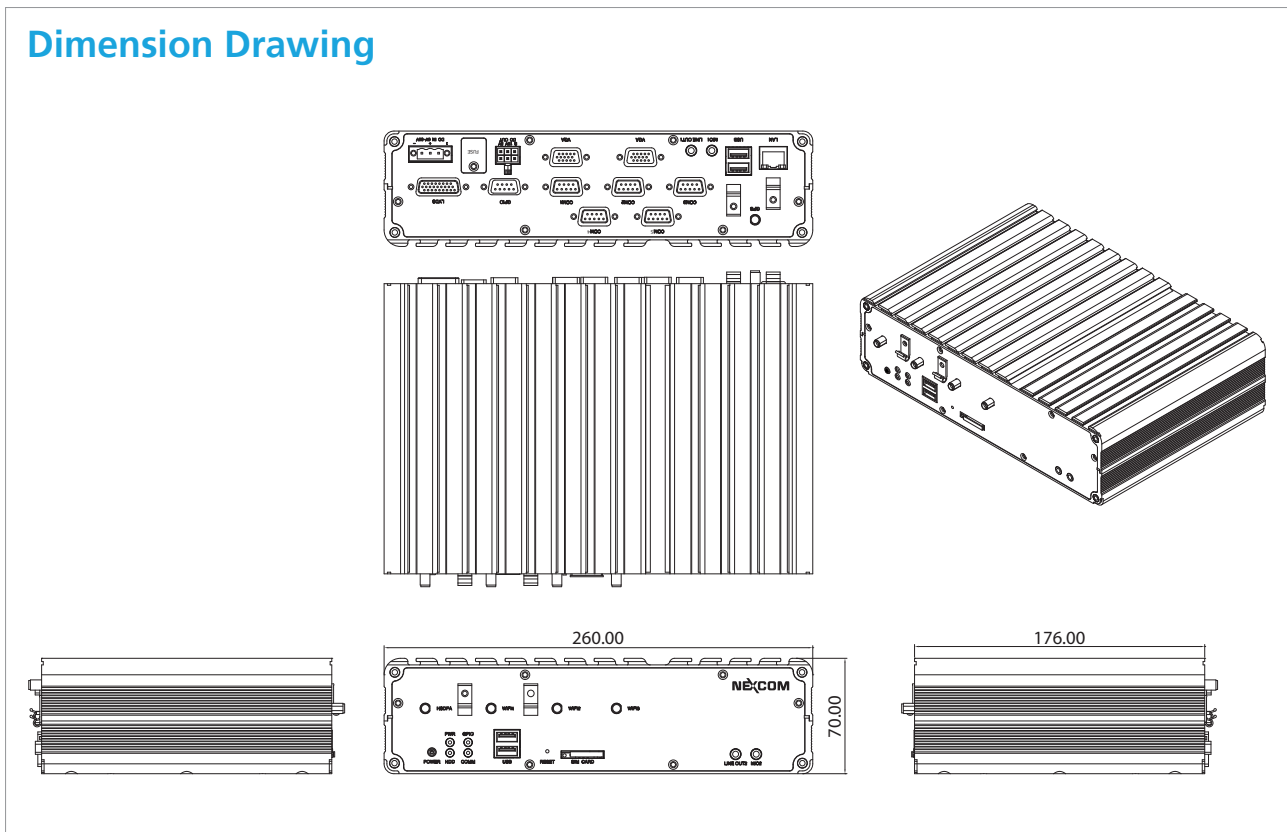
Expandable Storage

- 1 x 2.5" SATA II HDD bay
- 1 x SATA DOM

Power Management

- Selectable boot-up & shut-down voltage for low power protection
- HW design ready for 8-level delay time on/off at user's self configuration
- Power on/off ignition, software detectable
- Support S3/ S4 suspend mode

Dimension Drawing



Operating System

- Windows XP/ WES2009
- WES 7E

Dimensions

- 260mm (W) x 176mm (D) x 70mm (H) (10.24" x 6.93" x 2.75")
(support HDD and PCI-104 at the same time)
- 2.65 Kg (5.84 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:
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:
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

Standards/ Certifications

- CE approval
- FCC Class B
- e13 Mark

Ordering Information

♦ VTC 6200 (P/N: 10V00620000X0)

Intel® Atom™ D510 1.66GHz processor, 1GB DDR2, GPS module and GPS antenna

♦ 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
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