

# 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

### Main Chipset

- ICH-8M

### CPU

- Intel® Atom™ D510 Dual Core 1.6GHz

### Memory

- DDR2 667/ 800 SDRAM 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
- SUMIT x 1 (USB + PCIe x1)

### I/O Interface-Front

- 5 x LED's for power stand-by (on power button), Power Status, HDD, WLAN/ HSDPA and GPIO
- Power button
- 2 x USB port
- 1 x SIM card socket
- System reset button
- 1 x Mic-in, 1 x Line-out
- 4 x mounting hole SMA-type for WLAN/ HSDPA/ BT

### I/O Interface-Rear

- Mounting hole reserved:
  - For RF Coax to SMA Bulkhead x 1 (for GPS) reference, signal connect to function board
- 8V~60V Wide Range DC power Input, power ignition signal control
- Dual VGA Output (clone mode)
- 5V/1A, 12V/1A DC power output, can be controlled by S/W
- 1 x Mic-in, 1 x Line-out
- 2 x Isolated RS-232 (COM1/2)
- 2 x RS-232 (COM3/4)
- 1 x Isolated RS-485 (COM5)
- 2 x USB 2.0
- 1 x LVDS (DB26 female connector with backlight power (+12V) and USB 2.0 x 1)
- 10/ 100/ 1000 Fast Ethernet, RJ45 with LED connector x 1
- Isolated GPIO x 1 (4 input & 4 output)
- FUSE

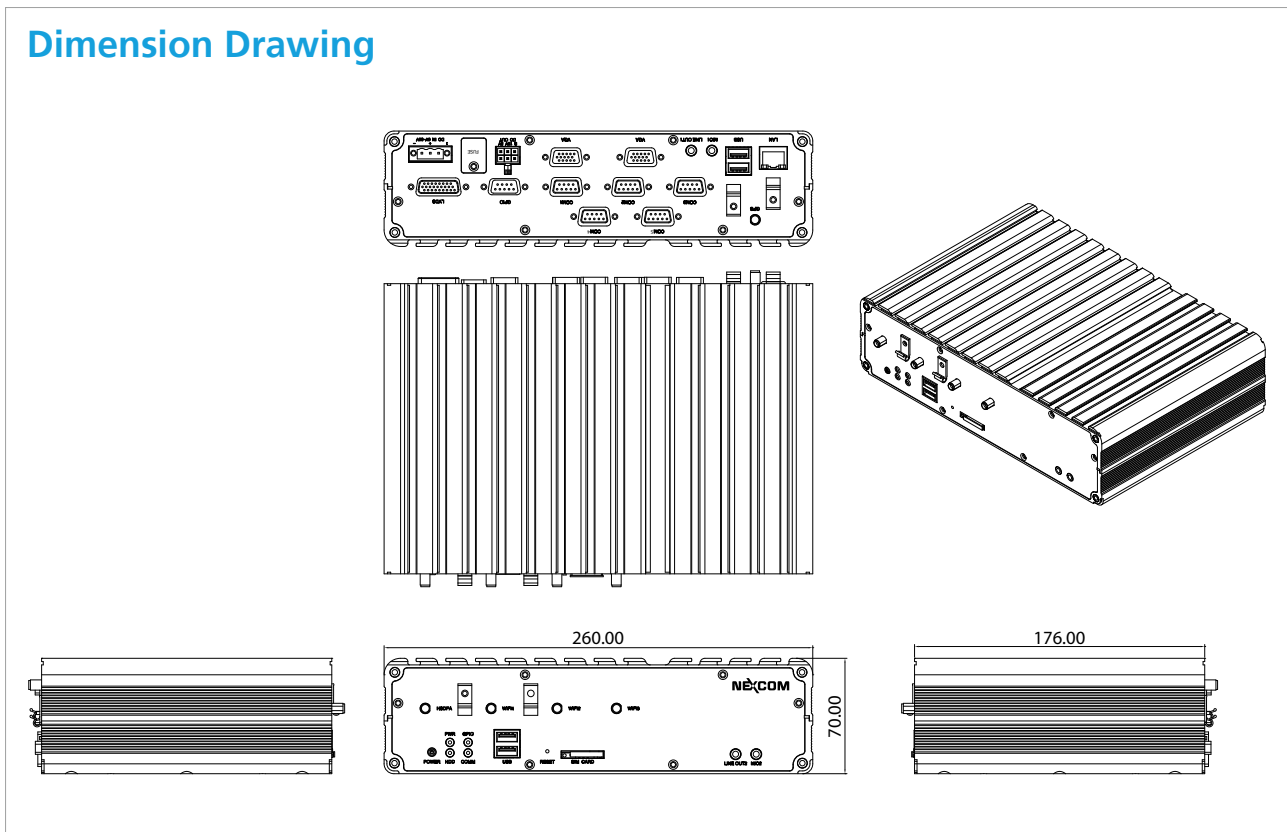
### Expandable Storage

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

### Power Management

- Selectable boot-up & shut-down voltage for low power protection
- 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



### 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

### 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
10VD010000X0	VMD 1000-B 7" monitor w/ touch screen
10VK33M0100X0	VTK 33M-01 8.4" monitor w/ touch screen
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)
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