VTC 6200

Intel® Atom™ D510 Fan-less In-vehicle Computer

Main Features

- Build-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, SUMIT and mini card expansion interface for PoE and mini card module

- 8~60V wide range DC power input
- Dual VGA output (clone mode)
- Rugged fan-less 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 processer which can support Dual Core technology.

With additional Video Capture Module, VTC 6200 is the ideal solution for in-vehiclesurveillance 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 RS232 (COM1/2)
  2 x RS232 (COM3/4)
  1 x Isolated RS485 (COM5)
- 2 x USB 2.0
- 1 x LVDS (DB26 female connector for LVDS with backlight , control power (+12V) and USB 2.0 x 1)
- 10/100/1000 Fast Ethernet, RJ45 with LED connector x 1
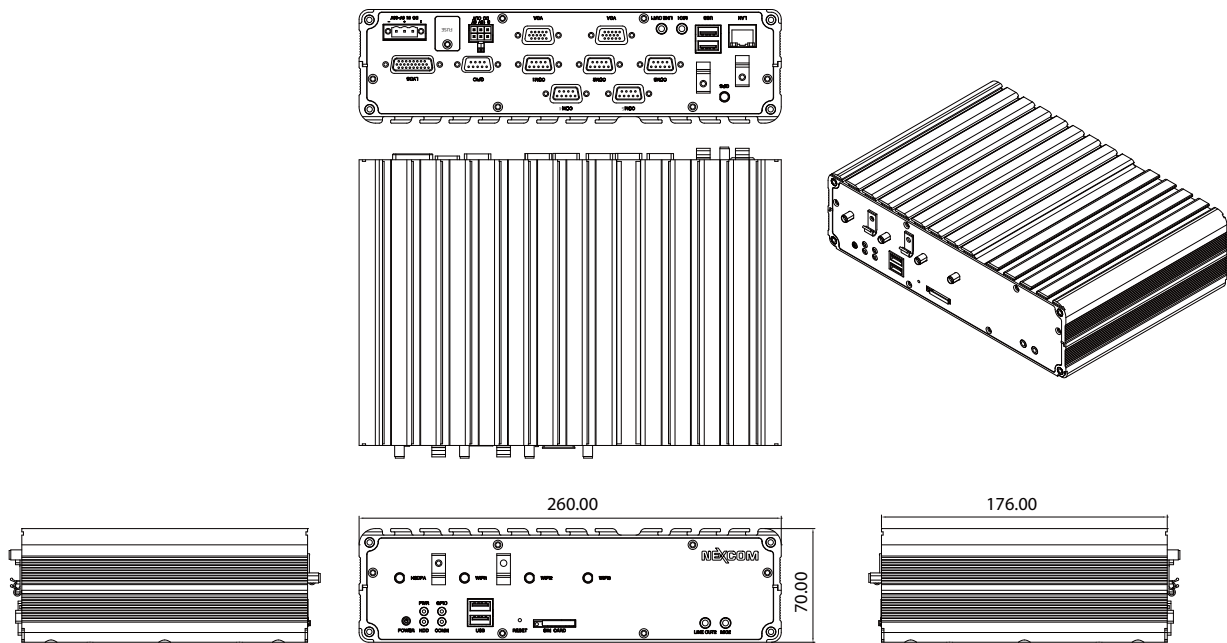- Isolated GPIO x 1 (4 input & 4 output)
- FUSE

Expandable Storage
- SATA 2.5" HDD Bay x 1

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

IP Rating
- IP65 compliant w/ VTC series protection kit

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)

Construction
- Aluminum enclosure with fan-less design

Environment
- Operating temperatures:
  Ambient with air:
  -30°C to 60°C (SSD)
  -30°C to 60C (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
- EN50155
- IP65 protection (With IP65 kit)

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
10VK33M0100X0	VTK 33M-01 8.4" monitor w/ touch screen
10VK0061B00X0	VTC61B, Back-up battery kit for 4 hours in system full loading
10Z00330200X0	NAK3302, GSM/GPRS Mini-PCIe card module for VTC6xxx & VTC2xxx series
10VK0006006X0	Wireless Mini Card Kit, Ralink 802.11b/g/n 2T3R, QCOM: Q802XKN, 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
60233SAM30X00	GPS+GSM combo antenna 5M/SMA180P
60233SAM17X00	GPRS/UMTS/GPRS antenna, SMA, support 850/900/1800/1900/2100