

VTC 6200-NI-DK

Intel® Atom™ D510 Fanless In-vehicle Computer
with GPS dead-reckoning module



Main Features

- ♦ Intel® Atom™ D510 Dual Core 1.66GHz processor
- ♦ Durable and Fanless Design
- ♦ Built-in GPS module with dead-reckoning support
- ♦ Ignition power on/ off and low voltage protection
- ♦ Smart Power Management by software setting
- ♦ 8~60V wide range DC power input
- ♦ PCI-104 and mini card expansion interface
- ♦ Dual VGA output (clone mode)
- ♦ Optional wireless communication (BT/WLAN/WWAN)
- ♦ Compliance with EN50155 and MIL-STD-810F standard

Product Overview

VTC 6200-NI-DK is the extension model of VTC 6200-NI series to support dead-reckoning feature. It remains all main features and durable design as VTC 6200-NI but implement GPS module with dead reckoning feature. With this additional feature, when the GPS signal is unavailable or weak, you still can track your position.

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

I/O Interface-Rear

- ♦ 1 x SMA antenna hole for GPS
- ♦ 8V~60V Wide Range DC power Input, power ignition signal control (ignition, power & ground)
- ♦ Dual VGA Output (clone mode)
- ♦ 5V/ 1A, 12V/ 1A DC power output, can be controlled by SW
- ♦ 1 x Mic-in, 1 x Line-out
- ♦ 1 x Odometer Sensor Input
- ♦ 1 x RS232 (COM2)
- ♦ 1 x RS485 (COM3)
- ♦ 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
- ♦ GPIO x 1 (4 input & 4 output)
- ♦ FUSE

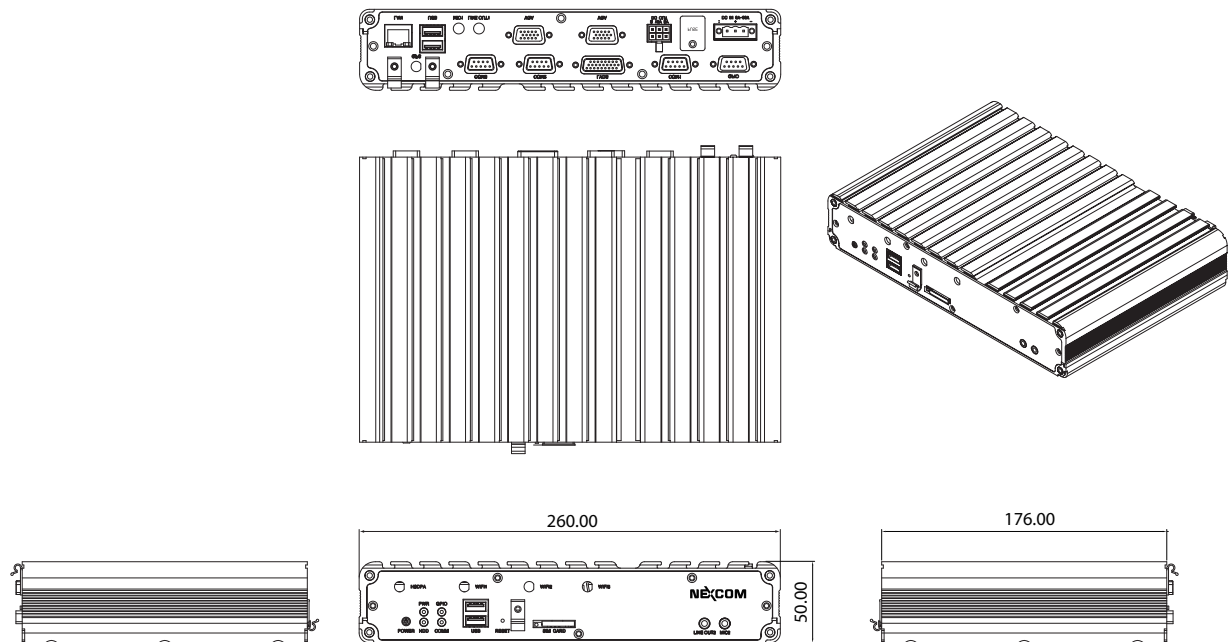
Expandable Storage

- ♦ 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 6200-NI-DK (P/N: 10V00620006X0)

Intel® Atom™ D510 1.66GHz processor, 1GB DDR2, dead reckoning 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
10VK0033V00X0	VTK 33V, anti-vibration/ fan kit
10VK0061B00X0	VTK 61B, back-up battery kit for 4 hours in system full loading
10VK0061P00X0	VTK 61P, IP65 protection kit for VTC 61XX series & VTC 6200-NI
10Z00330200X0	NAK 3302, GSM/ GPRS mini-PCle 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)
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