



## Main Features

- Intel Atom® processor quad core E3950, up to 2.0GHz
- 4 x PoE (802.3af/at, max. 60W)
- Built-in u-blox-M8N GPS
- Built-in CAN Bus 2.0B
- Three video outputs, one VGA and two HDMI
- E Mark conformity
- 3 x mini-PCIe socket expansion
- Dual external storage (compatible with 15mm disk)
- 1 x USB DOM to run OS
- 1 x SD card for exporting and backing up data

## Product Overview

VTC 6222, based on Intel Atom® quad core processor E3950 (up to 2.0GHz), is specifically comply with stringent E mark standard in rugged, fanless and compact mechanism. VTC 6222 provides complete communication capability between vehicle and computer with build-in CAN Bus 2.0B interface. Equipped with intelligent power management, VTC 6222 can be waked on by ignition, RTC timer or SMS message remotely. VTC 6222 supports 4 x 802.3at/3af (max. 60W) PoE ports to connect with IP cameras. The design of 2.5" removable SSD and SD memory card helps to access storage easily. VTC 6222 keeps the flexibility to meet the demand for video surveillance in vehicle application.

## Specifications

### CPU

- Intel Atom® processor quad core E3950, up to 2.0GHz, 12W, 4 core

### Memory

- 1 x 204-pin DDR3L SO-DIMM socket support 1866MHz up to 8GB. Default 4GB

### Video Output

- Chipset Intel® HD graphics 505
- 2 x HDMI 1.4b up to 4096 x 2160 @30Hz
- 1 x VGA up to 1920 x 1200 @60Hz

### Storage

- 2 x 2.5" SSD/HDD SATA 3.0 (compatible with 15mm drive)
- 1 x SD memory card 3.0 (externally accessible)
- 1x USB EDC for USB DOM

### Expansion

- 1 x Full size mini-PCIe socket (USB 2.0) for LTE module, BOM optional M.2 3042 Key B (USB 2.0, USB 3.0) for LTE/5G NR module with 2 x external SIM
- 1 x Full size mini-PCIe socket (USB 2.0, PCIe 2.0)
- 1 x Half size mini-PCIe socket (USB 2.0, PCIe 2.0)

### GNSS and Onboard Sensor

- 1 x Default U-blox NEO-M8N GNSS for GPS/Glonass/QZSS/Galileo/Beidou
- G Sensor (3-axis, 10-bit resolution)

### LAN and Power over Ethernet

- 4-Port LAN, 10/100/1000 Mbps I210-IT GbE, PoE 802.3af/at, max. 60W
- 1-Port LAN, 10/100/1000 Mbps I210-IT GbE

### Security

- TPM 2.0: Infineon SLB9665TT2.0FW5.62 (BOM optional)

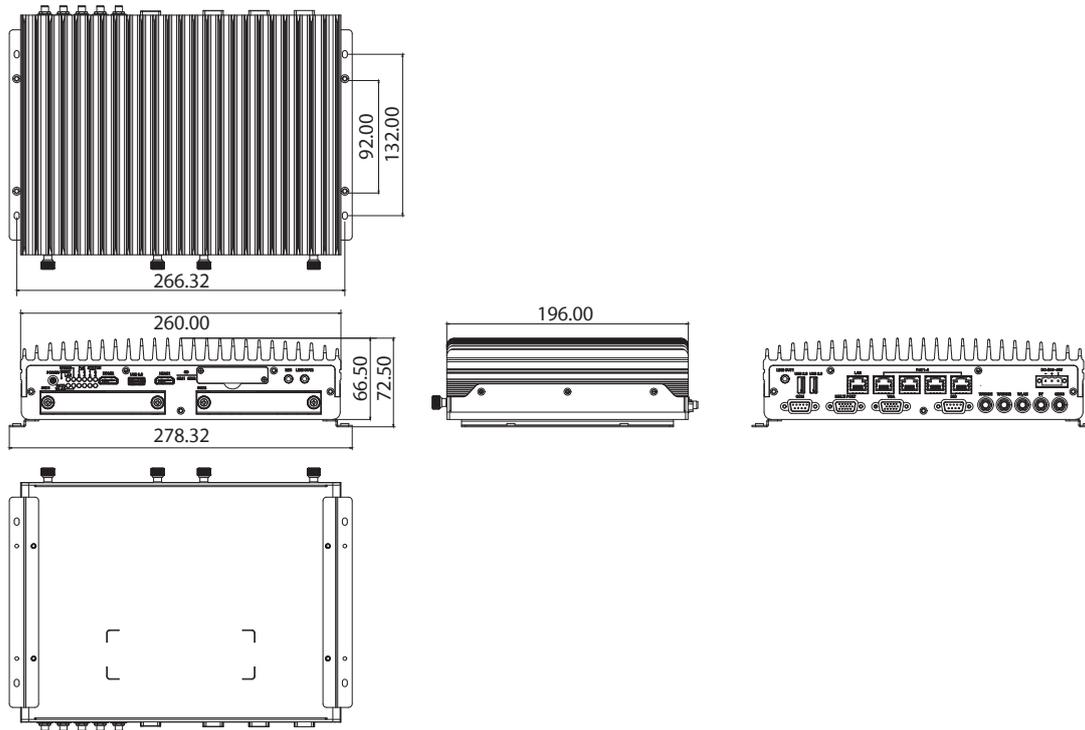
### I/O Interface-Front

- 12 x LED indicators (including 3 x programmable LED)
- 2 x Externally accessible SIM card socket with cover
- 2 x 2.5" removable SSD tray
- 1 x Externally accessible SD card socket with cover
- 1 x Reset button
- 1 x Power button
- 1 x USB 3.0 type A (5V/0.9A)
- 2 x HDMI 1.4b
- 1 x Mic-in, 1 x Line-out

### I/O Interface-Rear

- 1 x 3-pin terminal block for 9V~48V DC
- 1 x RJ45 10/100/1000 Mbps
- 4 x PoE 802.3af/at (max. 60W)
- 1 x VGA
- 1 x DB9 full RS232
- 4 x SMA antenna
- 2 x USB 2.0 type A (5V/0.5A)

## Dimension Drawing



- 1 x Line-out
- 1 x DB15 (DIO)
  - 4 x DI with isolation
  - 4 x DO with isolation
  - Vin, GND for GPIO
- 1 x DB15 (MULTI PORT)
  - 1 x RS422/RS485
  - 1 x RS232 (TX/RX)
  - 1 x CAN 2.0B
  - 1 x 12VDC, 2A output (Vout, GND)

### Power Management

- Power input 9~48 VDC
- Selectable boot-up & shut-down voltage for low power protection by software
- Setting 8-level power on/off delay time by software
- Support S3/S4 suspend mode
- 10~255 seconds WDT support, setup by software
- SDK (Windows/Linux) including utility and sample code

### Operating System

- Windows 10/Linux

### Dimensions

- 260mm (W) x 196mm (D) x 66.5mm (H)

### Weight

- 3.2kg

### Environment

- Operating temperatures:
  - -40°C to 70°C (w/ industrial SSD) with air flow
- Storage temperatures: -40°C to 80°C
- Relative humidity: 10% to 90% (non-condensing)
- Vibration (random)
  - 2g@5~500 Hz (in operation, SSD)
- Vibration (SSD)
  - Operating: MIL-STD-810G, Method 514.6, Category 4, common carrier US highway truck vibration exposure
  - Storage: MIL-STD-810G, Method 514.6, Category 24, minimum integrity test
- Shock (SSD)
  - Operating: MIL-STD-810G, Method 516.6, Procedure I, functional shock=40g
  - Non-operating: MIL-STD-810G, Method 516.6, Procedure V, crash hazard shock test=75g

### Standards/Certifications

- CE
- FCC Class A
- E13 mark

## Ordering Information

- **VTC 6222-C4S (P/N: 10V00622200X0)**  
Intel Atom® processor E3950 up to 2.0GHz CPU, 4GB DDR3L SO-DIMM, DC input 9~48 VDC, 1 x VGA, 2 x HDMI, 1 x LAN, 4 x PoE, 2 x RS232, 1 x RS422/485, 8 x GPIO, 1 x USB 3.0, 2 x USB 2.0