



## Main Features

- On-board Intel® Atom™ E640 (1GHz, 512K Cache) Processor
- On-board DDR2 SDRAM 1GB
- 1 x Intel® 82579V Gigabit Ethernet Port
- 1 x VGA / 3 x USB 2.0
- 2 x Mini-PCIe Socket On-board
- One External SIM Card Holder
- Power Ignition, on/off delay controlled by software
- 2-channel Full-D1 Display/ Recording

## Product Overview

NViS 1120 features an on-board Intel® Atom™ E640 1 GHz processor. NViS 1120 provides a wide variety of I/O interfaces including one Intel® GbE Ethernet port, 2 x COM ports, 3 x USB, and 1 x CAN interface.

Mobile DVR solution with 2 channel video input up to 60 fps, integrated power ignition and wide range DC power input. NViS 1120 is the best design for use mobile surveillance.

## Specifications

### Main Board

- On-board Intel® Atom™ E640 FCBGA processor (1GHz,512K Cache)
- Intel® Platform Controller Hub EG20

### Main Memory

- On-board DDR2 SDRAM 1GB

### I/O Interface-Front

- AT/ ATX power on/ off switch
- HDD Access/ Power status LEDs
- 3 x USB2.0 ports
- 1 x external SIM card holder
- 1 x DB15 GPIO connector
- 2 x Serial port  
(1x RS232 and 1x RS232/ 422/ 485 with auto-flow control)
- 2 x antenna holes

### I/O Interface-Rear

- 9V- 36V DC input
- 1 x DB15 VGA port
- 1 x Intel® GbE LAN ports
- 1 x Speaker out
- 1 x CAN

### Device

- 1 x 2.5" HDD driver bay

### Expansion

- 2 x mini-PCIe socket on-board

### Power Requirements

- ATX Power mode

### Dimensions

- TBD

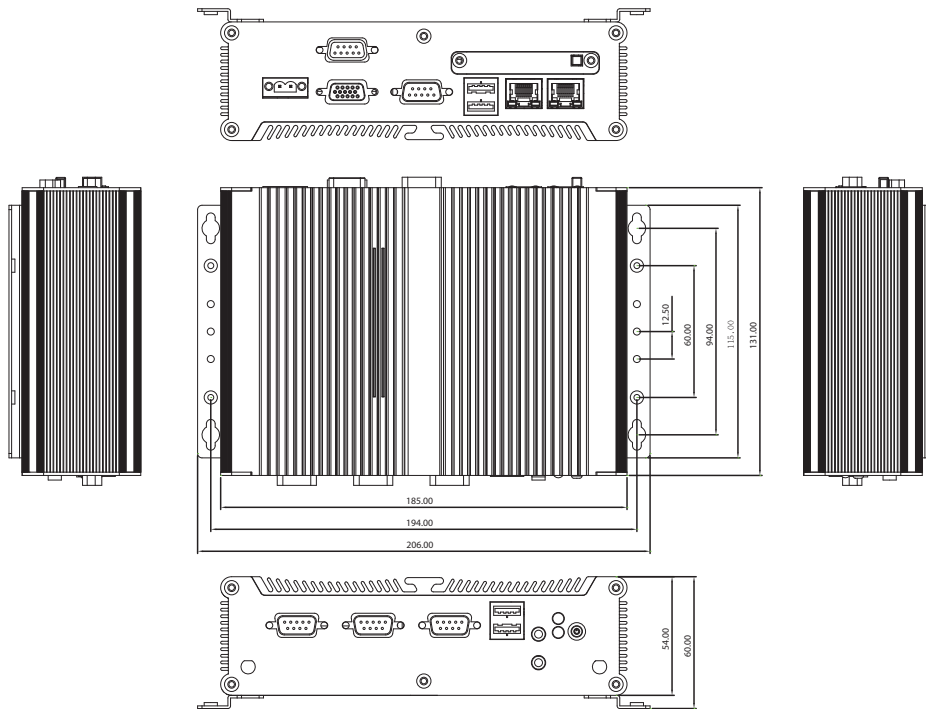
### Construction

- Aluminum chassis with fanless design

### Environment

- Operating temperature:  
Ambient with air flow: -5°C- 60°C  
(According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C- 80°C
- Relative humidity: 10% to 93% (non-condensing)

## Block Diagram



### Certifications

- CE approval
- FCC Class A

## Ordering Information

- **NViS 1120 (P/N: TBD) RoHS Compliant**  
Intel® Atom™ E640 fanless system
- **19V, 120W AC/DC power adapter w/o power core (P/N: 7410120002X00)**