

# AiMC-3201

Micro Computer, Intel® Core™ i7/i5/i3 CPU, H81, 2 Expansions, 250W 80Plus PSU



## Features

- Intel® H81 Platform
  - Intel® 4th gen Core™ i7/i5/i3 CPU (LGA1150)
  - One PCIe x16\* & one PCIe x4 Expansion Slots
- Compact, well-thought-out design
  - Two internal, shock-resistant, 2.5" SATA HDD bays
  - Front accessible I/O: VGA+DVI-D, 2 GbE LAN, 3 USB2.0, 2 COM
  - Easy-to-maintain system fan and reusable filter
  - Alert to chassis intrusion
- Energy Savings
  - 250W 80Plus PSU

\* PCI interface for AiMC-3201-01 model

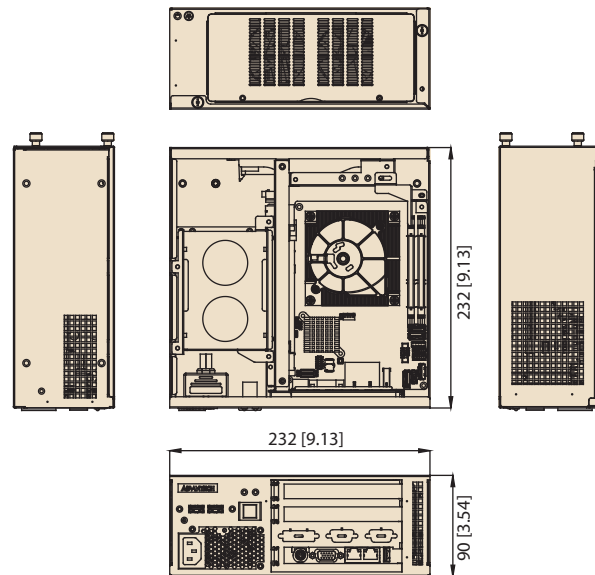


## Specifications

|                                                                      |                         |                                                                                             |          |          |                                              |         |         |         |         |
|----------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------|----------|----------|----------------------------------------------|---------|---------|---------|---------|
| Processor System<br>1.5U CPU Cooler<br>1 Expansion slot<br>0 ~ 40° C | CPU                     | i7-4790S                                                                                    | i5-4590S | i3-4360  |                                              |         |         |         |         |
|                                                                      | Core                    | 4/8                                                                                         | 4/4      | 4/4      |                                              |         |         |         |         |
|                                                                      | Base Frequency          | 3.2 GHz                                                                                     | 3.0 GHz  | 3.7 GHz  |                                              |         |         |         |         |
|                                                                      | L3 Cache                | 8 MB                                                                                        | 6 MB     | 4 MB     |                                              |         |         |         |         |
|                                                                      | Chipset                 | H81                                                                                         |          |          |                                              |         |         |         |         |
| Processor System<br>1U CPU Cooler<br>2 Expansion slots<br>0 ~ 45° C  | BIOS                    | AMI 128Mb SPI Flash                                                                         |          |          |                                              |         |         |         |         |
|                                                                      | CPU                     | i7-4770TE                                                                                   | i5-4590T | i3-4350T | i3-4340TE                                    | G3420   | G3420TE | G1820   | G1820TE |
|                                                                      | Core                    | 4/8                                                                                         | 4/4      | 2/4      | 2/4                                          | 2/2     | 2/2     | 2/2     | 2/2     |
|                                                                      | Base Frequency          | 2.3 GHz                                                                                     | 2.0 GHz  | 3.1 GHz  | 2.6 GHz                                      | 3.2 GHz | 2.3 GHz | 2.7 GHz | 2.2 GHz |
|                                                                      | L3 Cache                | 8 MB                                                                                        | 6 MB     | 4 MB     | 4 MB                                         | 3 MB    | 3 MB    | 2 MB    | 2 MB    |
| Memory                                                               | Chipset                 | H81                                                                                         |          |          |                                              |         |         |         |         |
|                                                                      | BIOS                    | AMI 128Mb SPI Flash                                                                         |          |          |                                              |         |         |         |         |
|                                                                      | Technology              | Dual Channel DDR3 1066/1333/1600 MHz (Non ECC)                                              |          |          |                                              |         |         |         |         |
| Graphics                                                             | Max. Capacity           | 16 GB (8 GB per DIMM)                                                                       |          |          |                                              |         |         |         |         |
|                                                                      | Socket                  | 204-pin SO-DIMM x 2                                                                         |          |          |                                              |         |         |         |         |
| Expansion slot<br>(AIMC-3201-00)                                     | Chipset Integrated      | Integrated Intel HD Graphics                                                                |          |          |                                              |         |         |         |         |
| Expansion slot<br>(AIMC-3201-01)                                     | PCI Express x16         | 1 (Lower-layer slot); Full-Height: 107 mm / Length: Max. 180 mm; Support 1U CPU cooler only |          |          |                                              |         |         |         |         |
|                                                                      | PCI Express x4          | 1 (Upper-layer slot); Full-Height: 107 mm / Length: Max. 180 mm                             |          |          |                                              |         |         |         |         |
| Ethernet                                                             | PCI Express x4          | 1 (Lower-layer slot); Full-Height: 107 mm / Length: Max. 180 mm; Support 1U CPU cooler only |          |          |                                              |         |         |         |         |
|                                                                      | PCI                     | 1 (Upper-layer slot); Full-Height: 107 mm / Length: Max. 180 mm                             |          |          |                                              |         |         |         |         |
| SATA                                                                 | Interface               | 10/100/1000 Mbps                                                                            |          |          |                                              |         |         |         |         |
|                                                                      | Controller              | LAN1: Intel I217V, LAN2: Intel I211AT                                                       |          |          |                                              |         |         |         |         |
| I/O Interface                                                        | Max Data Transfer Rate  | 600 MB/s (SATA 3.0)                                                                         |          |          |                                              |         |         |         |         |
|                                                                      | HDD Bay                 | 2 internal 2.5" (Both: max. 15 mm height)                                                   |          |          |                                              |         |         |         |         |
| Watchdog Timer                                                       | Display                 | VGA+DVI-D (19200 x 1200 pixel @ 60Hz)                                                       |          |          |                                              |         |         |         |         |
|                                                                      | USB                     | 4 USB2.0 (3 in front, 1 internal type-A for software key)                                   |          |          |                                              |         |         |         |         |
|                                                                      | Serial                  | 2 RS-232                                                                                    |          |          |                                              |         |         |         |         |
|                                                                      | PS/2                    | 1                                                                                           |          |          |                                              |         |         |         |         |
| Power Supply                                                         | Output                  | System reset                                                                                |          |          |                                              |         |         |         |         |
|                                                                      | Interval                | Programmable 1 ~ 255 sec/min                                                                |          |          |                                              |         |         |         |         |
| Cooling                                                              | Output Rating           | AC 250W, ATX                                                                                |          |          |                                              |         |         |         |         |
|                                                                      | Input Voltage           | 100 V <sub>AC</sub> ~ 240 V <sub>AC</sub>                                                   |          |          |                                              |         |         |         |         |
| Miscellaneous                                                        | System Fan              | 2 (6cm / 27.7 CFM)                                                                          |          |          |                                              |         |         |         |         |
|                                                                      | Air Filter              | Yes                                                                                         |          |          |                                              |         |         |         |         |
| Environment                                                          | Chassis intrusion alert | Yes                                                                                         |          |          |                                              |         |         |         |         |
|                                                                      | LED Indicators          | Power, HDD, temperature                                                                     |          |          |                                              |         |         |         |         |
|                                                                      | Control                 | Power on/off switch                                                                         |          |          |                                              |         |         |         |         |
| Physical Characteristics                                             | Operating Temperature   | 0 ~ 40° C (32 ~ 104° F)                                                                     |          |          | Non-operating -20 ~ 60° C (-4 ~ 140° F)      |         |         |         |         |
|                                                                      | Humidity                | 10 ~ 85% @ 40° C, non-condensing                                                            |          |          | 10 ~ 95% @ 40° C, non-condensing             |         |         |         |         |
|                                                                      | Vibration               | 1Grms, random, 5-500Hz, 3 axes, 1 hr/axis                                                   |          |          | 2Grms, sine wave, 5-500Hz, 3 axes, 1 hr/axis |         |         |         |         |
|                                                                      | Shock                   | 10G, half sine wave, 11 ms duration                                                         |          |          |                                              |         |         |         |         |
|                                                                      | EMC                     | CE/FCC, CCC, BSMI                                                                           |          |          |                                              |         |         |         |         |
|                                                                      | Safety                  | UL/CB, CCC, BSMI                                                                            |          |          |                                              |         |         |         |         |

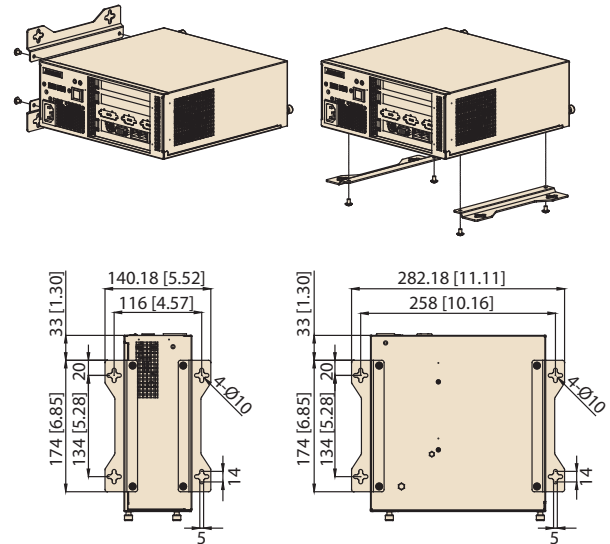
## Dimensions

Unit: mm [inch]

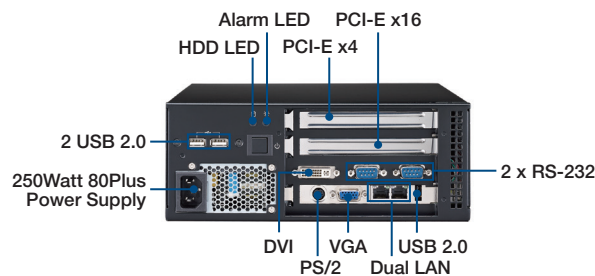


## Installation

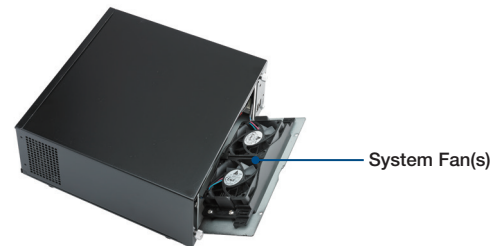
Unit: mm [inch]



## Front View



## Rear Cover for Replacing Fans



## Ordering information

| Part Number     | VGA | DVI | US | GbE | RS-232 | PS/2 | PSU  | PCIe Exp   | PCI Exp | Cooler  |
|-----------------|-----|-----|----|-----|--------|------|------|------------|---------|---------|
| AIMC-3201-00A1E | 1   | 1   | 3  | 2   | 2      | 1    | 250W | 2 (x16/x4) | -       | 1.5U/1U |
| AIMC-3201-01A1E | 1   | 1   | 3  | 2   | 2      | 1    | 250W | 2 (x16)    | 1       | 1.5U/1U |

## Packing List

| Items                            | Part Number                 | Quantity |
|----------------------------------|-----------------------------|----------|
| AIMC-3201                        | Bare System AIMC-3201-0xA1E | 1        |
| Driver CD                        | 2066302800                  | 1        |
| Four-port USB Cable              | 1700014398-11               | 1        |
| UL; C-UL 3PIN AC power code      | 1702002600                  | 1        |
| 4 port USB 2.0 cable wit breaket | 1700014398-11               | 1        |
| 2 port USB 3.0 cable wit breaket | 1700020277-01               | 1        |
| Startup manual (CHT)             | 2001320130                  | 1        |

## Optional Accessories

| Part Number      | Description                                                        |
|------------------|--------------------------------------------------------------------|
| 1960053207N001   | 1.5U Cooler for All CPUs; Support 1 Expansion slot                 |
| 1970004537N001   | 1U Cooler for CPU iX-XXXXTX and GXXXXXX; Support 2 Expansion slots |
| PCIE-1674PC-AE   | 4-port PCI express GbE PoE card                                    |
| PCIE-1672PC-AE   | 2-port PCI express GbE PoE card                                    |
| PCA-COM485-00A1E | 4-port RS-485/422 Module by LPC                                    |
| PCA-COM232-00A1E | 4-port RS-232 Module by LPC                                        |
| PCA-AUDIO-HDA1E  | Audio extension module with HD audio interface                     |
| PCA-TPM-00A1E    | Trusted platform module compliant with TCG 1.2                     |

Note: Purchasing proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible.