

AiMC-3202

Micro Computer with Intel® Core™ i7/i5/i3 Processor, Intel® H110 Chipset, 2 x Expansion Slots, and 250W 80PLUS PSU



Features

- Intel® 6th/7th Gen Core™ i7/i5/i3/Celeron® processor with Intel® H110 chipset
- 1 x PCIe x16 and 1 x PCIe x4(1 x PCI for AIMC-3202-01) expansion slots
- Compact design with front-accessible I/O
- 1 x VGA+DVI-D, 2 x GbE LAN, 3 x USB 3.0, 2 x COM
- 2 x 2.5" internal, shock-resistant SATA HDD bays
- Supports chassis intrusion alerts
- 250W 80PLUS PSU offers energy savings

Specifications

| | CPU | i7-7700 | i5-7500 | i3-7101E | i7-7700T | i5-7500T | i3-7101TE | i7-6700 | i5-6500 | i3-6100 | i7-6700TE | i5-6500TE | i3-6100TE | G4400TE | G3900TE | |
|--------------------------------|-------------------------|---|--------------|----------|----------|----------|-----------|---------|---------|---------|-----------|---------------------------|-----------|---------|---------|--|
| Processor | Core | 4 | 4 | 2 | 4 | 4 | 2 | 4 | 4 | 2 | 4 | 4 | 2 | 2 | 2 | |
| | Base Frequency | 3.6 GHz | 3.4 GHz | 3.9 GHz | 2.9 GHz | 2.7 GHz | 3.4 GHz | 3.4 GHz | 3.2 GHz | 3.7 GHz | 2.4 GHz | 2.3 GHz | 2.7 GHz | 2.9 GHz | 2.6 GHz | |
| | L3 Cache | 8 MB | 6 MB | 3 MB | 8 MB | 6 MB | 3 MB | 8 MB | 6 MB | 4 MB | 8 MB | 6 MB | 4 MB | 3 MB | 2 MB | |
| | TDP | 65W | 65W | 65W | 35W | 35W | 35W | 65W | 65W | 65W | 35W | 35W | 35W | 35W | 35W | |
| | Chipset | Intel® H110 | | | | | | | | | | | | | | |
| | BIOS | AMI 128Mb SPI Flash | | | | | | | | | | | | | | |
| Memory | Technology | Dual-channel DDR4 1866/2133 MHz (non-ECC) | | | | | | | | | | | | | | |
| | Max. Capacity | 32 GB (16 GB per DIMM) | | | | | | | | | | | | | | |
| | Socket | 2 x 260-pin SODIMM | | | | | | | | | | | | | | |
| Graphics | Integrated Chipset | Intel® HD Graphics | | | | | | | | | | | | | | |
| Ethernet | Interface | 2 x RJ45, 10/100/1000 Mbps | | | | | | | | | | | | | | |
| | Controller | LAN 1: Intel® i219V LAN 2: Intel® i211AT | | | | | | | | | | | | | | |
| Expansion Slots (AIMC-3202-00) | PCI Express x16 | 1 (Upper-layer slot); full height: 111.15 mm, length: max. 175mm | | | | | | | | | | | | | | |
| | PCI Express x4 | 1 (lower-layer slot); full height: 111.15 mm, length: max. 175mm with 1U cooler | | | | | | | | | | | | | | |
| Expansion Slots (AIMC-3202-01) | PCI Express x16 | 1 (lower-layer slot); full height: 111.15 mm, length: max. 175mm with 1U cooler | | | | | | | | | | | | | | |
| | PCI | 1 (Upper-layer slot); full height: 111.15 mm, length: max. 175mm | | | | | | | | | | | | | | |
| SATA | Data Transfer Rate | 600 MB/s (SATA 3.0) | | | | | | | | | | | | | | |
| | HDD Bay | 2 x 2.5" internal SATA HD (height: Max 9mm (upper layer), 15mm (lower layer)) | | | | | | | | | | | | | | |
| | mSATA | 1 | | | | | | | | | | | | | | |
| I/O Interface | Display | VGA+DVI-D (1920 x 1200 pixel @ 60Hz) | | | | | | | | | | | | | | |
| | USB | 3 x USB 3.0, 1 x USB 2.0 internal type-A for software key | | | | | | | | | | | | | | |
| | Serial | 2 x RS-232 | | | | | | | | | | | | | | |
| | PS/2 | 1 | | | | | | | | | | | | | | |
| | Watchdog Timer | Output | System reset | | | | | | | | | | | | | |
| | Interval | Programmable 1 ~ 255 sec/min | | | | | | | | | | | | | | |
| Power Supply | Output Rating | AC 250W, ATX | | | | | | | | | | | | | | |
| | Input Voltage | 100 ~ 240 V _{AC} | | | | | | | | | | | | | | |
| Cooling | System Fan | 2 (6 cm/14.1CFM) | | | | | | | | | | | | | | |
| | Air Filter | Yes | | | | | | | | | | | | | | |
| Miscellaneous | Chassis Intrusion Alert | Yes | | | | | | | | | | | | | | |
| | LED Indicators | Power, HDD | | | | | | | | | | | | | | |
| | Control | Power on/off switch | | | | | | | | | | | | | | |
| Environment | Operating Temperature | 0 ~ 40 °C (32 ~ 104 °F) | | | | | | | | | | Non-operating | | | | |
| | Humidity | 10-85% @ 40 °C non-condensing | | | | | | | | | | -20 ~ 60 °C (-4 ~ 140 °F) | | | | |
| | Vibration | 1Gms, random, 5 ~ 500 Hz, 3 axes, 1 hr/axis | | | | | | | | | | | | | | |
| | Shock | 10G, half sine wave, 11ms duration | | | | | | | | | | | | | | |
| | EMC | CE/FCC Class A, CCC, BSMI | | | | | | | | | | | | | | |
| | Safety | UL/CB, CCC, BSMI | | | | | | | | | | | | | | |
| Physical Characteristics | Dimensions (W x H x D) | 232 x 90 x 232 mm (9.13" x 3.54" x 9.13") | | | | | | | | | | | | | | |
| | Weight | 4.5 kg | | | | | | | | | | | | | | |

Configuration table for CPU OS and CPU cooler

| TDP | 65W | | 35W | |
|----------------|--|---|--|---|
| CPU Generation | Intel 7th Kabylake | Intel 6th Skylake | Intel 7th Kabylake | Intel 6th Skylake |
| CPU | i7-7700 i5-7500 i3-7101E | i7-6700 i5-6500 i3-6100 | i7-7700T i5-7500T i3-7101TE | i7-6700TE i5-6500TE i3-6100TE G4400TE G3900TE |
| OS Support | <ul style="list-style-type: none"> Win10 IoT Enterprise (64-bit) Linux | <ul style="list-style-type: none"> Win10 IoT Enterprise (64-bit) Win 8.1 Pro Win 7 Professional Linux | <ul style="list-style-type: none"> Win10 IoT Enterprise (64-bit) Linux | <ul style="list-style-type: none"> Win10 IoT Enterprise (64-bit) Win 8.1 Pro Win 7 Professional Linux |
| CPU Cooler | 1960053207N001(1.5U) | | 1960053207N001(1.5U) 1960053065N001 (1U) | |

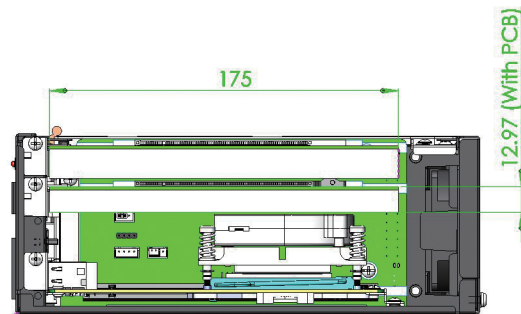
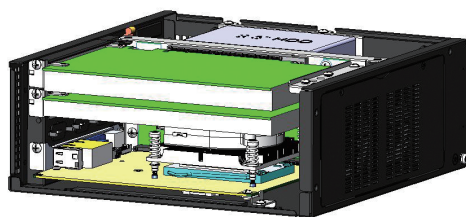
Fan Comparison Table

| CPU Cooler | 1960053065N001 (1U) | 1960053207N001 (1.5U) |
|--------------------------|---------------------|-----------------------|
| RPM | 5500 | 4400 |
| dB | 55 | 43 |
| CFM | 11.83 | 45.09 |
| System Expansion support | 2* | 2** |
| System Fan | 98R1320200E | 98R1320210E |
| RPM | 3000 | 4500 |
| dB | 24.5 | 27 |
| CFM | 14.1 | 23.5 |
| Dimension | 60x60x20 mm | 60x60x25mm |

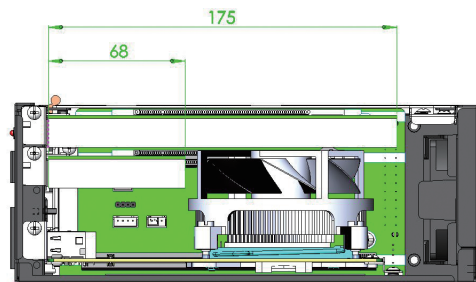
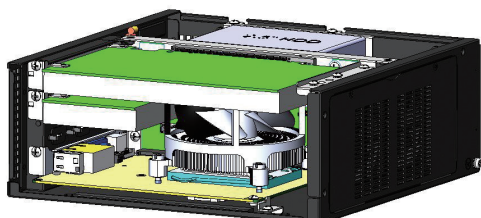
* Lower layer card max thickness: 12.97mm

** Lower layer card max length: 68mm

CPU Cooler (1U) : 1960053065N001

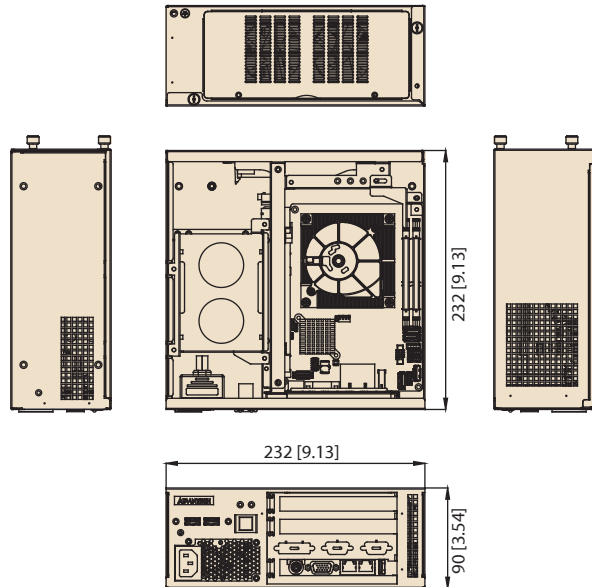


CPU Cooler (1.5U) : 1960053207N001



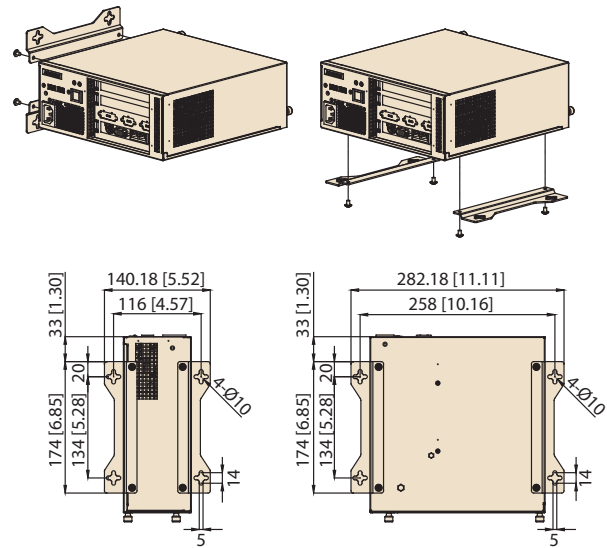
Dimensions

Unit: mm [inch]

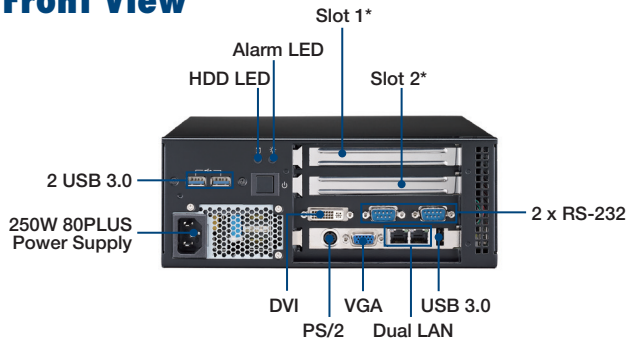


Installation

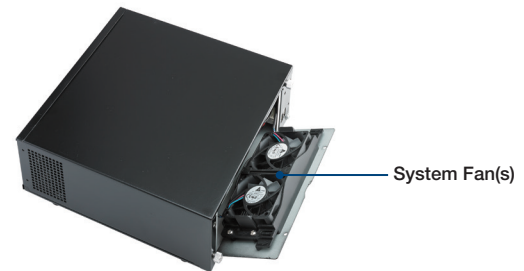
Unit: mm [inch]



Front View



Rear cover for easy fan replacement



Ordering information

| Part Number | VGA | DVI | USB 3.0 | GbE | RS-232 | PS/2 | PSU | PCIe | PCI | Cooler |
|-----------------|-----|-----|---------|-----|--------|------|------|-----------------------------|--------|---------|
| AIMC-3202-00A1E | 1 | 1 | 3 | 2 | 2 | 1 | 250W | Slot 1 (x16) Slot 2 (x4) | - | 1.5U/1U |
| AIMC-3202-01A1E | 1 | 1 | 3 | 2 | 2 | 1 | 250W | Slot 2 (x16) | Slot 1 | 1.5U/1U |

Packing List

| Part Number | Description | Quantity |
|-----------------|-----------------------|----------|
| AIMC-3202-0xA1E | AIMC-3202 bare system | 1 |
| 2061302902 | Driver CD | 1 |
| 1700003194 | SATA cable | 1 |
| 1700022749-13 | SATA power cable | 1 |
| 9689000002 | Jumper pack | 1 |
| 1700060202 | PS/2 cable | 1 |
| 1960014487T001 | Mounting brackets | 2 |
| 1990008871S000 | 2.5 HDD rubber | 4 |
| 1990012452S000 | Rubber Foot | 4 |
| 1960056953N000 | Hold down Bar Bracket | 1 |
| 1700014398 | USB2.0 cable | 1 |
| 1700020277-01 | USB3.0 cable | 1 |
| 1700002223 | LTP cable | 1 |
| 2001320200 | Startup maunal(EN+CH) | 1 |

Optional Accessories

| Part Number | Description |
|------------------|--|
| 1960053207N001 | 1.5U cooler for all CPUs |
| 1960053065N001 | 1U cooler for CPU iX-XXXXTX and GXXXXXX |
| 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 |
| PCA-TPM-00B1E | Trusted platform module compliant with TCG 2.0 |
| 98R1320210E | 6025 fan module |
| 98R1320200E | 6020 fan module |
| 1990005760T00B | Fan 70*2 Filter |

Note: Customers must use the Advantech proprietary CPU cooler. Other brands of CPU coolers are NOT compatible.