

AIMB-B1000 Series

Ultra Thin Embedded
Mini-ITX Box

NEW



Features

- Economic embedded system with 5 yrs longevity
- Ultra Thin design with 35mm in height
- Easy opening design, quick installation for additional peripherals
- Shock-resistant 2.5" drive bay
- Low power and low noise design
- Locking type DC power jack



Specifications

| | | AIMB-B12010 | AIMB-B12300/AIMB-B12305 |
|-------------------------|---------------------------|---|--|
| Processor System | Thermal solution | Heat Pipe cooler included(support CPU up to 45W) | Heat Pipe cooler included |
| | CPU | 3rd Gen. Intel Core i7/i5/i3 CPU, (uPGA 988B socket, up to 45W) | 4rd Gen. Intel Core™ i5-4300U/Celeron 2980U (on board) |
| | Chipset | QM77 | 4th Generation Intel® Core™ ULT processors + Lynx Point-LP |
| | BIOS | AMI EFI 64 Mbit, SPI | AMI EFI 128 Mbit, SPI |
| Memory | Technology | DDR3 1333/1600 MHz SDRAM | DDR3L 1600 MHz SDRAM |
| | Max. Capacity | 16 GB/up to 8 GB per SODIMM | 16 GB/up to 8 GB per SODIMM |
| | Socket | 2 x 204 PIN DDR3 SODIMM (Non-ECC) | 2 x 204 PIN DDR3 SODIMM (Non-ECC) |
| Graphics | Chipset integrated | Integrated Intel HD Graphics | Integrated Intel HD Graphics |
| | 2.5" HDD bay | 1 (support 2.5" HDD/SSD, max 9.5 mm height) | 1 (support 2.5" HDD/SSD, max 9.5 mm height) |
| Storage | Cfast | 1 (Front panel access) | NA |
| | mSATA | NA | 1 (share w/ full size Mini-PCIe slot) |
| | Interface | 10/100/1000 Mbps | 10/100/1000 Mbps |
| Ethernet | Controller | Intel 82579LM | LAN1: Realtek RTL8111E-VB-GR; LAN2: Realtek RTL8111E-VB-GR |
| | Connector | 1 (RJ-45) | 2 (RJ-45) |
| | Chipset | Realtek ALC892, High Definition Audio(HD) | Realtek ALC892, High Definition Audio(HD) |
| Internal expansion Slot | Mini-PCIe | 1 | 2 (Full-size, Half-size) |
| Front Panel | USB | 2 (USB2.0) | 2 (USB2.0) |
| | COM | 1 (RS-232) | 2 (RS-232) |
| | Antenna (optional) | NA | 1 knock-out |
| Rear Panel | HDMI | 3 | 1 (Compatible with DP) |
| | DP++ | NA | 1 |
| | Lan | 1 (RJ-45) | 2 (RJ-45) |
| | USB | 1 (USB3.0) | 4 (USB3.0) |
| | Audio Jack | 1 (Line-Out) | 2 (Line-Out, Mic-In) |
| | Antenna (optional) | 2 knock-out | 2 knock-out |
| Miscellaneous | Power Input | 1 (DC Jack) | 1 (DC Jack) |
| | LED Indicators | 2 (Power LED, HDD LED) | 2 (Power LED, HDD LED) |
| | Control | 1 (Power Button) | 1 (Power Button) |
| Power Requirements | Voltage | 19V DC power input | 12V DC power input |
| | Power Consumption | 17.4W (idle with Core i3); 43.8W (full load with Core i3) | 13.8W (idle with Core i5); 31.92W (full load with Core i5) |
| Environment | Operating Temperature | 0 ~ 40° C (32 ~ 104° F) | 0 ~ 40° C (32 ~ 104° F) |
| | Non-operating Temperature | -20 ~ 60° C (-4 ~ 140° F) | -20 ~ 60° C (-4 ~ 140° F) |
| | Humidity | 10~85% @ 40° C, non-condensing | 10~85% @ 40° C, non-condensing |
| | Vibration (5 ~5 00Hz) | 0.2G (with 2.5" HDD) / 1G (with SSD) | 0.5G (with 2.5" HDD) / 1G (with SSD) |
| Dimensions (W x H x D) | Dimensions (W x H x D) | 250 x 35 x 190 mm (9.84" x 1.38" x 7.48") | 250 x 35 x 190 mm (9.84" x 1.38" x 7.48") |
| Weight | Weight | 1.8 kg | 1.8 kg |

Front View



AIMB-B1201



AIMB-B1230

Rear View



AIMB-B1201



AIMB-B1230

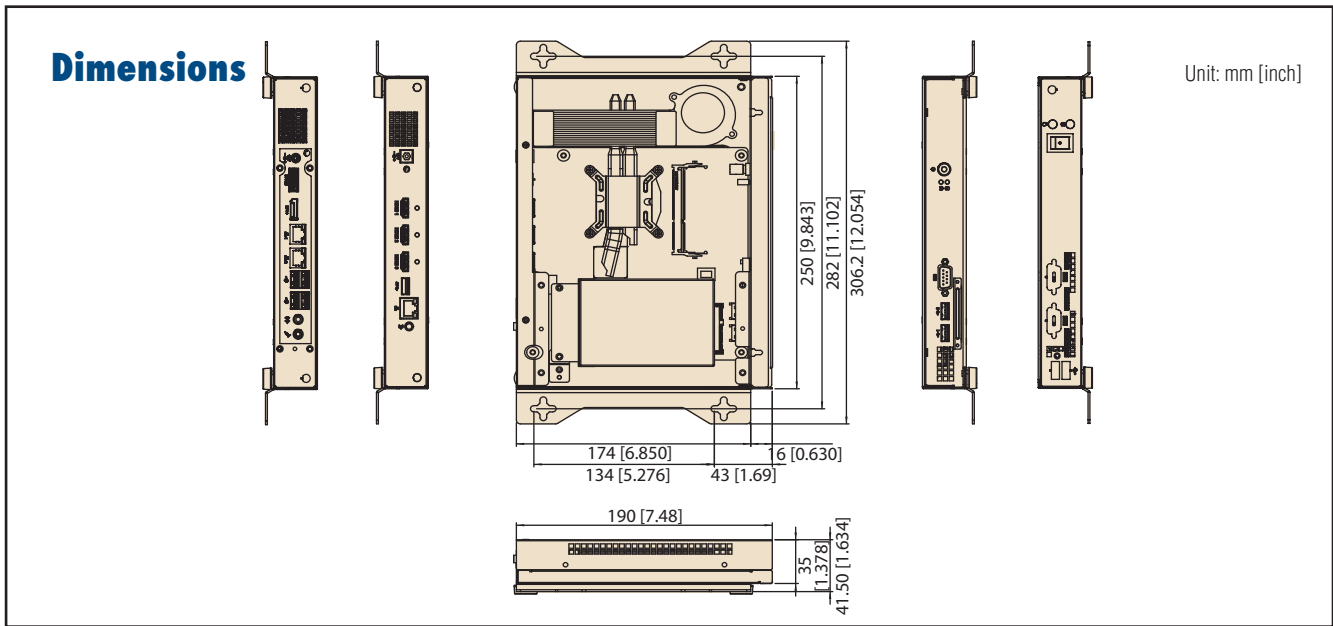
Inside View



AIMB-B1201



AIMB-B1230



Ordering Information

| Parts Number | Description | Front Panel | | | Rear Panel | | | | | Internal expansion Slot | 2.5" HDD bay | Regulations |
|-------------------|---|-------------|-----|------------|------------|------|-------------|---------|----------------------|--|--------------|-------------|
| | | USB 2.0/3.0 | COM | Cfast slot | HDMI | DP++ | USB 2.0/3.0 | GbE LAN | Audio Jack | | | |
| AIMB-B12010-00Y1E | CPU optional, barebone w/o power adapter | 2/0 | 1 | 1 | 3 | 0 | 0/1 | 1 | 1 (Line-Out) | 1 (1 x F/S) (F/S support mSATA) | 1 (SATA III) | CE, FCC |
| AIMB-B12300-00Y1E | Celeron 2980U, barebone w/o power adapter | 2/0 | 2 | 0 | 1 (DP) | 1 | 0/4 | 2 | 2 (Line-Out, Mic-In) | 2 (1 x F/S; 1 x H/S) (F/S support mSATA) | 1 (SATA III) | CE, FCC |
| AIMB-B12305-00Y1E | i5-4300U, barebone w/o power adapter | 2/0 | 2 | 0 | 1 (DP) | 1 | 0/4 | 2 | 2 (Line-Out, Mic-In) | 2 (1 x F/S; 1 x H/S) (F/S support mSATA) | 1 (SATA III) | CE, FCC |

Optional Power Adaptor/ Power Cord

| Parts Number | Compatibility | Watts | Input | Output | Safety | Power cord | Part Number | Description |
|--------------|-------------------------------|-------|--|---------------|---|------------|-------------|--|
| 1757003734 | Adapter DC 19V for AIMB-B1201 | 65W | AC 100-240V _{AC} , 1.5A 50-60Hz | DC 19V, 3.42A | CE/FCC/CCC/UL/CB/KC/AS/PSE/GS/GOST R/C-Tick/BSMI/IRAM | Power cord | 1700001524 | 3-pin power cord (US) for for AIMB-B1201 |
| | | | | | | | 170203183C | 3-pin power cord (EU) for AIMB-B1201 |
| 1757002944 | Adapter DC 19V for AIMB-B1201 | 90W | AC 100-240V _{AC} , 1.5A 50-60Hz | DC 19V, 4.74A | CE/FCC/CCC/UL/CB/AS/PSE/GS/GOST R/C-Tick/BSMI | Power cord | 170203180A | 3-pin power cord (UK) for AIMB-B1201 |
| | | | | | | | 1700008921 | 3-pin power cord with PSE (Japan) for AIMB-B1201 |
| | | | | | | | 1700019146 | 3-pin power cord (CCC) for AIMB-B1201 |
| | | | | | | | 1702002600 | 3-pin power cord (US) for for AIMB-B1230 |
| 1757003995 | Adapter DC 12V for AIMB-B1230 | 60W | AC 100-240V _{AC} , 1.5A 50-60Hz | DC 12V, 5.0A | CE/FCC/CCC/UL/CB/KC/PSE/GS/GOST R | Power cord | 1702002605 | 3-pin power cord (EU) for AIMB-B1230 |
| | | | | | | | 1702031801 | 3-pin power cord (UK) for AIMB-B1230 |
| 1757003064 | Adapter DC 12V for AIMB-B1230 | 84W | AC 100-240V _{AC} , 1.3A 50-60Hz | DC 12V, 7.0A | CE/FCC/CCC/UL/CB/KC/PSE/GS/GOST R/C-Tick/BSMI | Power cord | 1700000237 | 3-pin power cord with PSE (Japan) for AIMB-B1230 |
| | | | | | | | 1700000596 | 3-pin power cord (CCC) for AIMB-B1230 |

Packing List

| Description | Quantity |
|---|----------|
| MB startup manual | 1 |
| MB utility CD | 1 |
| Mounting Bracket (PN: 1960014487T001) | 1 |
| Lock harness for power Jack (PN: 1990021263S000+1990021264S000) | 1 |

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