



Features

- Fanless system supports IBASE MB210 customized board
- Supports 4th Generation Intel® Core™ i7/i5/i3 processors
- Three independent display output capability
- Supports 1x 2.5" SATA HDD device (AMI210)
- Supports 2x 2.5" SATA HDD device (AMI210-PE)
- 1x Isolated RS422/485 port (1kv surge protection)
- Wide input voltage 12V~24V DC
- Over/Under/Reverse voltage protection
- iSMART, iAMT (9.0)

Specifications

| | |
|--|--|
| System Mainboard | MB210AF with Intel® Q87 PCH MB210EF with Intel® H81 PCH |
| CPU Type | 4th generation Intel® Core™ i7/i5/i3 Desktop processors |
| System Speed | Up to 3.1GHz |
| Memory | 2x 2GB DDR3-1600 SO-DIMM, Max. 16GB |
| Construction | Aluminum & Steel |
| Chassis Color | Sliver (Aluminum) |
| Front Panel External I/O | 1x DVI-D + 1x VGA 1x Audio jack for MIC-in / Line-out 2x USB 3.0 ports (AMI210AF only) 2x USB 2.0 ports (AMI210EF only) 1x red HDD LED 1x power button with green LED indicator 1x CFast socket 1x 2-pins terminal block for external power button |
| Rear Panel External I/O | 1x RS422/485 port with isolation protection for COM#1 1x RS232 port for COM#2 2x RS232 port for COM#3/COM#4 1x DisplayPort + HDMI connector 1x RJ45 Gigabit Ethernet port + 2x USB 3.0 ports 1x RJ45 Gigabit Ethernet port + 2x USB 2.0 ports 1x 3 pins DC-in terminal block type for 12V~24V 2x Antenna hole |
| Expansion slots | 2x Mini PCI-E sockets + 1x CFast slot |
| Storage | 1x 2.5" SSD + 1x mSATA |
| Mounting | Desktop or wall mount (wall mount kit included) |
| Dimensions | 210mm (W) x 265mm (D) x 77mm (H) |
| Expansion slots & I/O for optional BOX (AMI210-PE) | 1x PCI-E(x8) slot 1x PCI-E(x1) slot 2x RS232 ports for COM5/COM6 (TX/RX signal only) 2x USB 2.0 ports |
| Operating Temperature | -10°C to 45°C (14°F~113°F) (for 45W CPU) -10°C to 50°C (14°F~122°F) (for 35W CPU) |
| Storage Temperature | -20°C ~ 80°C (-4°F~176°F) |
| Relative Humidity | 5~90% @ 45°C, (non-condensing) |
| Vibration | Non-Operating: 1.0 grms / 5~500Hz / random operation Operating: 0.25 grms / 5~500Hz / random operation |
| Certification | CE / LVD / FCC Class B |

Ordering Information

| | |
|-------------|---|
| AMI210AF | Fanless Box system with MB210AF, w/ Intel® Core™ i7/i5/i3 Desktop processor, 4x COM, 2x 2GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor |
| AMI210EF | Fanless Box system with MB210EF, w/ Intel® Core™ i7/i5/i3 Desktop processor, 4x COM, 2x 2GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor |
| AMI210AF-PE | Fanless Box system with MB210AF, w/ Intel® Core™ i7/i5/i3 Desktop processor, 6x COM, 2x 2GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, 1x PCI-E(x8) + 1x PCI-E(x1) expansion slots, w/o power adaptor |
| AMI210EF-PE | Fanless Box system with MB210EF, w/ Intel® Core™ i7/i5/i3 Desktop processor, 6x COM, 2x 2GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, 1x PCI-E(x8) + 1x PCI-E(x1) expansion slots, w/o power adaptor |

Recommended Processor list

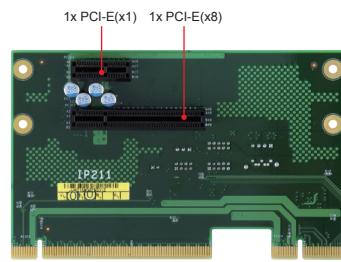
| Model | TDP | Base Freq | Turbo Freq | Cache | Platform |
|-----------|-----|-----------|------------|-------|-----------------|
| i7-4770TE | 45W | 2.3 GHz | 3.3 GHz | 8M | Haswell |
| i5-4570TE | 35W | 2.7 GHz | 3.3 GHz | 4M | Haswell |
| i5-4590T | 35W | 2.0 GHz | 3.0GHz | 6M | Haswell Refresh |
| i3-4350T | 35W | 3.1 GHz | N/A | 4M | Haswell Refresh |
| i3-4330TE | 35W | 2.4 GHz | N/A | 4M | Haswell |
| G3320TE | 35W | 2.3 GHz | N/A | 3M | Haswell |
| G1820TE | 35W | 2.2 GHz | N/A | 2M | Haswell |

Comparison table

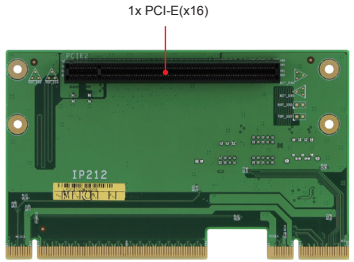
| Model | AMI210AF | AMI210EF | AMI210AF-PE | AMI210EF-PE |
|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| PCH | Q87 | H81 | Q87 | H81 |
| Front Panel | 2 x USB3.0 | 2 x USB2.0 | 2 x USB3.0 | 2 x USB2.0 |
| Rear Panel | 4 x COM 2 x USB2.0 | 4 x COM 2 x USB2.0 | 6 x COM 4 x USB2.0 | 6 x COM 4 x USB2.0 |
| iAMT | 9.0 | N/A | 9.0 | N/A |
| RAID | N/A | N/A | 0/1 | N/A |
| Independent Display | 3 | 2 | 3 | 2 |
| Storage support | 1 x 2.5" SSD | 1 x 2.5" SSD | 2 x 2.5" SSD | 2 x 2.5" SSD |
| Expansion slot | No | No | Yes | Yes |

Expansion Cards

IP211



IP212



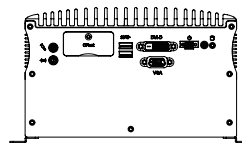
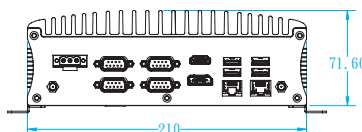
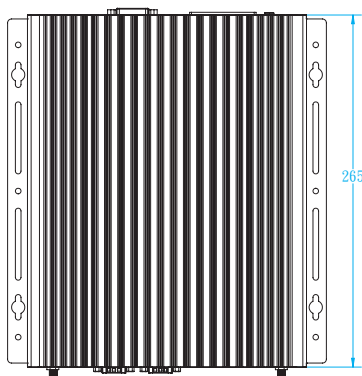
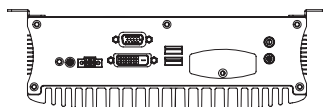
Non-Expansion Slot Version



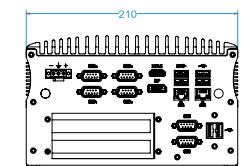
1x PCI-E (x8) + 1x PCI-E (x1) Expansion Slots



Dimensions and Drawing



Rear View



Front View

