



Rear I/O

## Specifications

|                          |                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Mainboard         | MB210AF with Intel® Q87 PCH<br>MB210EF with Intel® H81 PCH                                                                                                                                                                                                                                                                                  |
| CPU Type                 | 4th Gen 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            | Silver (aluminum)                                                                                                                                                                                                                                                                                                                           |
| Front Panel External I/O | 1x DVI-D + 1x VGA<br>1x Audio jack for MIC-in / Line-out<br>2x USB 3.0 ports (AMI210AF only)<br>2x USB 2.0 ports (AMI210EF only)<br>1x Red HDD LED<br>1x Power button with green LED indicator<br>1x CFast socket<br>1x 2-pin terminal block for external power button                                                                      |
| Rear Panel External I/O  | 1x RS422/485 port with isolation protection for COM#1<br>1x RS232 port for COM#2<br>2x RS232 port for COM#3/COM#4<br>1x DisplayPort + HDMI connector<br>1x RJ45 Gigabit Ethernet port + 2x USB 3.0 ports<br>1x RJ45 Gigabit Ethernet port + 2x USB 2.0 ports<br>1x 3-pin DC-in terminal block for 12V(-10%) ~ 24V(+10%)<br>2x Antenna holes |
| Expansion Slots          | 2x Mini PCI-E sockets + 1x CFast slot                                                                                                                                                                                                                                                                                                       |
| Storage                  | 1x 2.5" HDD/SSD + 1x mSATA                                                                                                                                                                                                                                                                                                                  |
| Mounting                 | Desktop or wall mount (wall mount kit included)                                                                                                                                                                                                                                                                                             |
| Dimensions               | 210mm (W) x 265mm (D) x 71mm (H)<br>8.27" (W) x 10.43" (D) x 2.79" (H)                                                                                                                                                                                                                                                                      |
| Weight                   | 3.6kg                                                                                                                                                                                                                                                                                                                                       |
| Operating Temperature    | -10°C to 45°C (14°F~113°F) (for 45W CPU)<br>-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:<br>1.0 grms / 5~500Hz / random operation<br>Operating:<br>0.25 grms / 5~500Hz / random operation                                                                                                                                                                                                                             |
| Shock                    | Operating : 20G/ 11ms;<br>Non- Operating : 40G/ 11ms (MIL-STD-810G)                                                                                                                                                                                                                                                                         |
| Certification            | CE / LVD / FCC Class B                                                                                                                                                                                                                                                                                                                      |

## Features

- Fanless system with MB210 customized board
- 4th Gen Intel® Core™ i7/i5/i3 Processors
- Supports three independent display outputs
- 1x Isolated RS422/485 port (1kv surge protection)
- 12V(-10%) ~ 24V(+10%) DC wide-range voltage input
- Over/Under/Reverse voltage protection
- iSMART, iAMT (9.0)

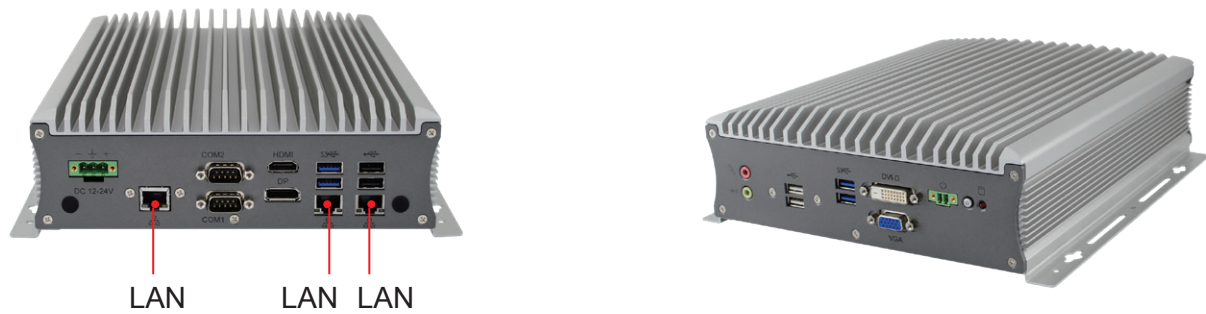
## Ordering Information

|                               |                                                                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AMI210AF                      | Fanless box system with MB210AF, w/ Intel® Core™ desktop Processor, Intel Q87, 4x COM, 2x 2GB, 64GB MLC industrial-grade SSD, w/o power adaptor                      |
| AMI210EF                      | Fanless box system with MB210EF, w/ Intel® Core™ Processor, Intel H87, 4x COM, 2x 2GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor               |
| AMI210AF-3L (MOQ)             | Fanless box system with MB210AF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 3x LAN, 2x COM, 2x 2GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor |
| 150W power adaptor (optional) | 150W (12V(±10%)@12.5A) power adaptor, bare wire type                                                                                                                 |

## 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         |

## AMI210AF-3L



## Flexible SSD Replacement



## Dimensions and Drawing

