



Features

- Fanless system supports 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

Model IBT210AF	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
Model IBT210EF	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
Model IBT210AF-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
Model IBT210EF-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

Processors

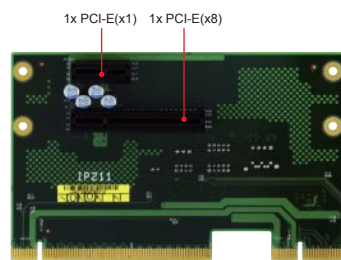
Model	TDP	Base Freq	Turbo Freq	Cache	Platform
i7-4770TE	45W	2.3 GHz	3.3 GHz	8M	Haswell
i5-4570TE	35W	2.7 GHz	3.3 GHz	4M	Haswell
i5-4590T	35W	2.0 GHz	3.0GHz	6M	Haswell Refresh
i3-4350T	35W	3.1 GHz	N/A	4M	Haswell Refresh
i3-4330TE	35W	2.4 GHz	N/A	4M	Haswell
G3320TE	35W	2.3 GHz	N/A	3M	Haswell
G1820TE	35W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

Comparison table

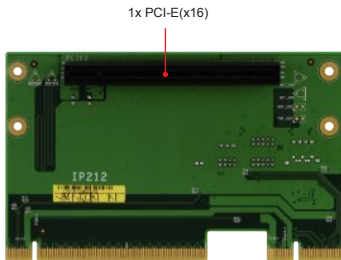
Model	AMI210AF	AMI210EF	AMI210AF-PE	AMI210EF-PE
PCH	Q87	H81	Q87	H81
Front Panel	2 x USB3.0	2 x USB2.0	2 x USB3.0	2 x USB2.0
Rear Panel	4 x COM 2 x USB2.0	4 x COM 2 x USB2.0	6 x COM 4 x USB2.0	6 x COM 4 x USB2.0
iAMT	9.0	N/A	9.0	N/A
RAID	N/A	N/A	0/1	N/A
Independent Display	3	2	3	2
Storage support	1 x 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



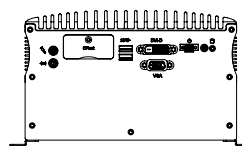
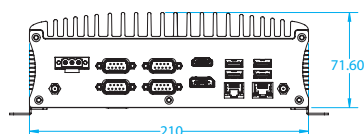
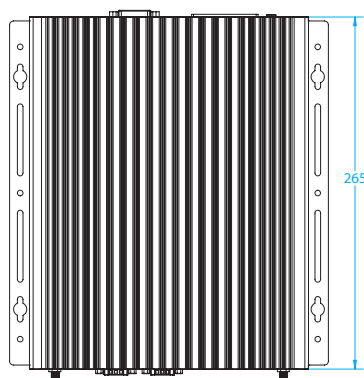
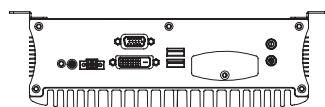
Non-Expansion Slot Version



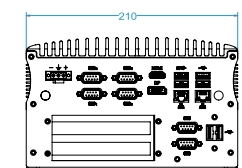
1x PCI-E (x8) + 1x PCI-E (x1) Expansion Slots



Dimensions and Drawing



Rear View



Front View

