AMI221

High Performance Fanless System
Expandable Fanless & Ventless System for
7th/6th Generation Intel® Core™ i7/i5/i3 Desktop Processors

NEW **iSMART** **Fanless** **IP40**

Features

- Fanless system supports IBASE MB220 customized board
- Supports 7th/6th Generation Intel® Core™ i7/i5/i3 processors
- Three independent display output
- Flexible expansion slot system compatibility
- Dual SIM sockets support WWAN redundancy
- 12V to 24V DC wide-range voltage input
- Over/Under/Reverse voltage protection
- iSMART, iAMT 11.6, TPM 2.0

Specifications

System Mainboard	MB220AF with Intel® Q170 PCH MB220EF with Intel® H110 PCH
CPU Type	7th/6th Generation Intel® Core™ i7/i5/i3 Desktop processors
System Speed	Up to 3.4GHz
Memory	2x 4GB DDR4-2133 SO-DIMM, Max. 32GB
Construction	Aluminum & steel
Chassis Color	Sliver & Gray (Aluminum)
Front Panel External I/O	1x DVI-D + 1x VGA 1x Audio jack for MIC-in / Line-out 4x USB 2.0 ports 1x red HDD LED 1x power button with green LED indicator 1x CFast socket, 2x SIM card slot 1x 2-pin terminal block for external power button 1x front removable drive bay for SSD
Rear Panel External I/O	1x RS232/RS422/485 port for COM#1 5x RS232 port for COM#2/COM#3/COM#4 2x DisplayPort connector 1x RJ45 Gigabit Ethernet port + 2x USB 3.0 port 1x RJ45 Gigabit Ethernet port + 2x USB 3.0 port 1x 3-pin DC-in terminal block type for 12V~24V 2x Antenna hole 1x Expansion slot
Expansion slots	2x Mini PCI-E sockets + 1x CFast slot
Storage	1x 2.5 SSD 2x mSATA (AMI221AF only) & 1x mSATA (AMI221EF only)
Mounting	Desktop or wall mount (wall mount kit included)
Dimensions	210mm (W) x 265mm (D) x 108.6mm (H)
Operating Temperature	-10°C to 50°C (14°F~122°F)
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 Operatiing: 0.25 grms / 5~500Hz / random operation
Certification	CE / LVD / FCC Class B

Ordering Information

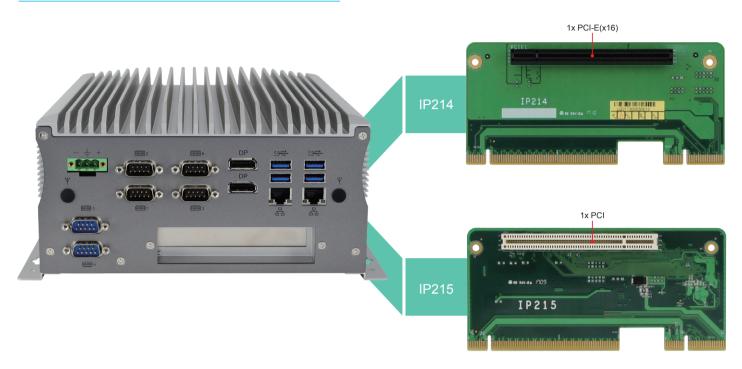|	
AMI221AF	Fanless Box System with MB220AF, w/ Intel® Core™ i7/i5/i3 Desktop processor, 6x COM, 2x 4GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor, optional riser card
AMI221EF	Fanless Box System with MB220EF, w/ Intel® Core™ i7/i5/i3 Desktop processor, 6x COM, 2x 4GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor, optional riser card

Recommended Processor list

Model	TDP	Base Freq	Turbo Freq	Cache	Cores / Threads
i7-6700TE	35W	2.4 GHz	3.4 GHz	8M	4/8
i5-6500TE	35W	2.3 GHz	3.3 GHz	6M	4/4
i3-6100TE	35W	2.7 GHz	N/A	4M	2/4
G4400TE	35W	2.9 GHz	N/A	3M	2/2
G3900TE	35W	2.6 GHz	N/A	2M	2/2

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Expansion Cards

1x PCI-E(x16)

IP214

1x PCI

IP215

Dimensions and Drawing

210

108.6

Rear View

Front View

6-Ø4.2

220

110   110

4-R5

240   224

265

114