



### Features

- Fanless system supports IBASE MB220 customized board
- Supports 7th/6th Generation Intel® Core™ i7/i5/i3 processors
- Supports three independent display outputs
- Flexible expansion slot system
- 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 2GB 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-pins terminal block for external power button
Rear Panel External I/O	1x RS232/RS422/485 port for COM#1 3x RS232 port for COM#2/COM#3/COM#4 2x DisplayPort connector 1x RJ45 Gigabit Ethernet port + 2x USB 3.0 ports 1x RJ45 Gigabit Ethernet port + 2x USB 3.0 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 2x mSATA (AMI220AF only) & 1x mSATA (AMI220EF only)
Mounting	Desktop or wall mount (wall mount kit included)
Dimensions	210mm (W) x 265mm (D) x 77mm (H) 8.27" (W) x 10.43" (D) x 3.03" (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 Operating: 0.25 grms / 5~500Hz / random operation
Certification	CE / LVD / FCC Class B

### Ordering Information

AMI220AF	Fanless Box system with MB220AF, w/ Intel® Core™ i7/i5/i3 Desktop processor, 4x COM, 2x 4GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor
AMI220EF	Fanless Box system with MB220EF, w/ Intel® Core™ i7/i5/i3 Desktop processor, 4x COM, 2x 4GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor

### 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

# Why AMI220?

Based on  
7th 6th Gen. Intel®  
CPU (35W TDP)

Extreme & Fanless

Supports  
2x Mini PCI-E  
Expansion

Supports  
different type of Fieldbus  
through expansion

3x Gigabit LAN  
(Optional)

Flexible & Versatile  
Expansion Slot

Remote Power Button  
for Remote Access

SIM socket  
Redundancy

Supports RAID (0/1)

Wide-range  
voltage input  
(power protection)

Cableless Design

Wallmount,  
Desktop Mounting

## Dimensions and Drawing

