



Extended Lifetime



AMI220



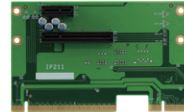
AMI222

Specifications

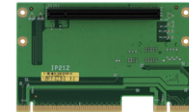
System Mainboard	MB220AFS-1 with Intel® Q170 PCH MB220EFS-1 with Intel® H110 PCH
CPU Type	7th/6th Gen Intel® Core™ i7/i5/i3 desktop processors (35W TDP)
System Speed	Up to 3.4GHz
Memory	2x DDR4 SO-DIMM, Max. 32GB
Front Panel External I/O	1x DVI-D + 1x VGA 1x Audio jack for Mic-in / Line-out 4x USB 2.0 ports 1x Red HDD LED 1x power button with green LED indicator 2x SIM card slots 1x 2-pin terminal block for external power button 1x Front removable drive bay for SSD [For AMI222 series]
Rear Panel External I/O	1x RS232/RS422/485 port for COM#1 3x RS232 port for COM#2 ~ COM#4 2x extra RS232 port for COM#5 ~ COM#6 [For AMI222 + IP211 or IP212 riser card] 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 for 12V (-10%)~24V (+10%) 2x USB 2.0 port (AMI222AF only) 2x Antenna holes 2x Expansion slots [AMI222 series]
Expansion Slots	2x Mini PCIe sockets
Storage	1x 2.5" HDD/SSD (Internal) 2nd 2.5" HDD/SSD (External-accessible) 2x mSATA (AMI220AFS or AMI222AFS) 1x mSATA (AMI220EFS or AMI222EFS) RAID 0, 1, 5, 10 support (AMI220AFS or AMI222AFS only)
Construction	Aluminum & steel
Chassis Color	Silver & Gray
Mounting	Desktop or wall mount (wall mount kit included)
Dimensions	AMI220 series: 210mm (W) x 265mm (D) x 77mm (H) 8.27" (W) x 10.43" (D) x 3.03" (H) AMI222 series: 210mm (W) x 265mm (D) x 128.6mm (H) 8.27" (W) x 10.43" (D) x 5.06" (H)
Weight	3.6 kg [AMI220 series] 4.3 kg [AMI222 series]
Operating Temperature	-10°C ~ 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
Shock	Operating: 20G/ 11ms Non-Operating: 40G/ 11ms (MIL-STD-810G)
Certification	CE / LVD / FCC Class B

Features

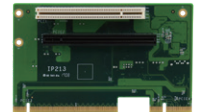
- Fanless system with IBASE MB220AFS-1 or MB220EFS-1 customized board
- 7th/6th Gen Intel® Core™ i7/i5/i3 Processors (35W TDP)
- Supports three independent display outputs
- Flexible expansion slot system
- Dual SIM slots support WWAN redundancy
- 2x 2.5" HDD/SSD (Supports RAID 0/1)
- 12V (-10%) ~ 24V (+10%) DC wide-range voltage input
- Over/Under/Reverse voltage protection
- iSMART, iAMT (11.6), (TPM 2.0)



IP211 Riser card



IP212 Riser card



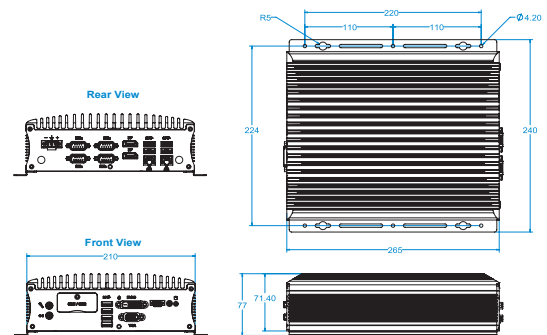
IP213 Riser card

Ordering Information

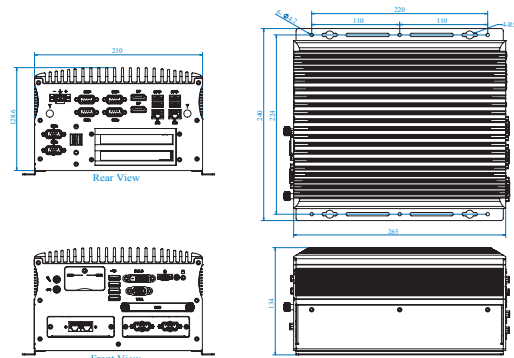
AMI220AFSM	Fanless barebone system with MB220AFS-1, 4x COM, Optional Intel® Core™ i7/i5/i3 CPU, DDR4 memory, 2.5 MLC industrial-grade SSD, power adaptor
AMI220EFSM	Fanless barebone system with MB220EFS-1, 4x COM, Optional Intel® Core™ i7/i5/i3 CPU, DDR4 memory, 2.5 MLC industrial-grade SSD, power adaptor
AMI222AFSM	Fanless box system with MB220AFS-1, 4x COM or 6 x COM [with riser card], Optional Intel® Core™ i7/i5/i3 CPU, DDR4 memory, 2.5 MLC industrial-grade SSD, power adaptor
AMI222EFSM	Fanless box system with MB220EFS-1, 4x COM or 6 x COM [with riser card], Optional Intel® Core™ i7/i5/i3 CPU, DDR4 memory, 2.5 MLC industrial-grade SSD, power adaptor
IP211 Kit (optional)	IP211 riser card w/ COM cables for AMI222 series
IP212 Kit (optional)	IP212 riser card w/ COM cables for AMI222 series
IP213 (optional)	IP213 for AMI222 series
150W power adaptor (optional)	150W (12V @12.5A) power adaptor, bare wire type Compatible with IEC62368-1/EN62368-1

Dimensions and Drawing

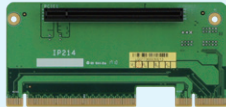
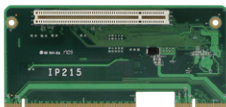
AMI220

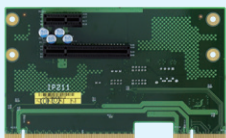
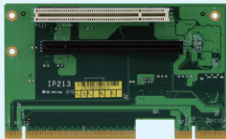
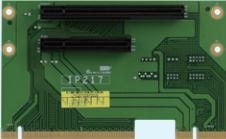
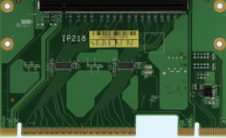


AMI222



AMI23x & AMI24x Series Riser Card List

Card Model	Compatible System		Expansion Slot
IP214 143.4mm x 67.8mm 			16x PCIe [Gen.3/Gen.4]
	AMI231	AMI241	
IP215 143.4mm x 67.8mm 			PCI
	AMI231	AMI241	

Card Model	Compatible System		Slot #1 (Lower Side)	Slot #2 (Upper Side)
IP211 143.4mm x 87.78mm 			PCIe(8x) [Gen.3/Gen.4]	PCIe(1x) [Gen.3/Gen.4]
	AMI232	AMI242		
IP212 143.4mm x 87.78mm 			N/A	PCIe(16x) [Gen.3/Gen.4]
	AMI232	AMI242		
IP213 143.4mm x 87.78mm 			PCIe(16x) [Gen.3/Gen.4]	PCI
	AMI232	AMI242		
IP217 143.4mm x 87.78mm 			PCIe(8x) [Gen.3/Gen.4]	PCIe(16x) with (8x) signal [Gen.3/Gen.4]
	AMI232	AMI242		
IP218 143.4mm x 87.78mm 			N/A	PCIe(16x) [Gen.5]
	AMI242			