

Industrial Motherboards

ATX Motherboards



Model		AIMB-788	AIMB-787	AIMB-786
Processor System	CPU	12th Generation Intel Core™ i9/i7/i5/i3, Pentium®/Celeron®	10th Generation Core™ i9/i7/i5/i3 & Pentium®/Celeron®	8th/9th Generation Core™ i7/i5/i3 & Pentium®/Celeron®
	Socket	LGA1700	LGA1200	LGA1151
	Max. Speed	3.6 GHz	3.8 GHz	3.7 GHz
	Cache	L3: up to 30 MB (depends on CPU)	L3: up to 20 MB (depends on CPU)	L3: up to 12 MB (depends on CPU)
	Chipset	Intel Q670E	Intel Q470E	Intel Q370
	BIOS	AMI 256 Mbit SPI	AMI 256 Mbit SPI	AMI 256 Mbit SPI
Expansion Slot	PCIe x16	1 (Gen4)	1 (Gen3)	1 (Gen3)
	PCIe x8	1 (x 4 link, Gen3)	-	-
	PCIe x4	3 (Gen3)	4 (Gen3)	4 (Gen3)
	PCIe x1	-	-	-
	PCI	2	2	2
Memory	Technology	Dual Channel DDR4 3200 MHz	Dual Channel DDR4 2400/2666/2933 MHz	Dual Channel DDR4 2400/2666 MHz
	Max. Capacity	128 GB	128 GB	128 GB
	Socket	4 x 288-pin DIMM	4 x 288-pin DIMM	4 x 288-pin DIMM
Graphics	Controller	Intel UHD Graphics	Intel HD Graphics	Intel HD Graphics
	VRAM	Shared system memory up to 1 GB	Shared system memory up to 1 GB	Shared system memory up to 1 GB
Ethernet	Interface	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
	Controller	GbE LAN1: Intel I219-LM GbE LAN2: Intel I210-AT	GbE LAN1: Intel I219-LM GbE LAN2: Intel I210-AT	GbE LAN1: Intel I219-LM GbE LAN2: Intel I211-AT
M.2	Slot	PCIe x4 M-key 2280 type	PCIe x4 M-key 2280 type	-
SATA	Max. Data Transfer Rate	600 MB/s	600 MB/s	600 MB/s
	Channel	4 (SW RAID)	4 (SW RAID)	5 (SW RAID)
I/O Interface	VGA	1	1	1
	DVI	-	1	1
	DP	1	1	1
	HDMI	1	-	-
	USB	14 (6 USB 3.2 and 8 USB 2.0)	14 (6 USB 3.2 and 8 USB 2.0)	13 (6 USB 3.2 and 7 USB 2.0)
	Serial	6	6	6
	PS/2	-	Optional	Optional
	Ethernet (GbE)	2	2	2
Watchdog Timer	Audio	Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out
	Output	System reset	System reset	System reset
	Interval	Programmable, 1-255 Sec	Programmable, 1-255 Sec	Programmable, 1 ~ 255 sec

✓: supported, -: not supported, Δ: optional

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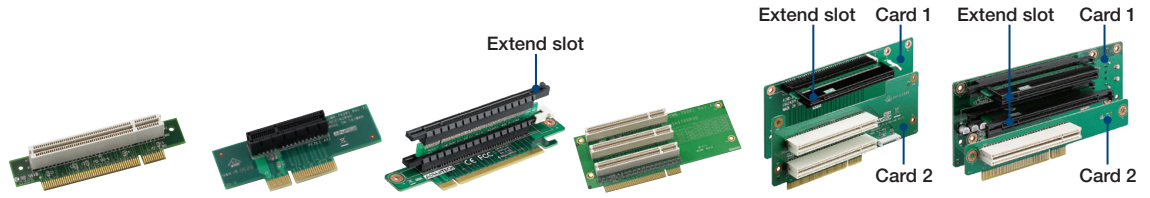
Model		AIMB-708	AIMB-707	AIMB-706
Processor System	CPU	12th Generation Intel Core™ i9/i7/i5/i3, Pentium®/Celeron®	10th Generation Core™ i9/i7/i5/i3 & Pentium®/Celeron®	8th/9th Generation Core™ i7/i5/i3 & Pentium®/Celeron®
	Socket	LGA1700	LGA1200	LGA1151
	Max. Speed	3.6 GHz	3.8 GHz	3.7 GHz
	Cache	L3: up to 30 MB (depends on CPU)	L3: up to 20 MB (depends on CPU)	L3: up to 12 MB (depends on CPU)
	Chipset	Intel H610E	Intel H420E	Intel H310
Expansion Slot	BIOS	AMI 256 Mbit SPI	AMI 128 Mbit SPI	AMI 128 Mbit SPI
	PCIe x16	1 (Gen4)	1 (Gen3)	1 (Gen3)
	PCIe x8	-	-	-
	PCIe x4	2 (Gen3)	2 (x 1 link, Gen3)	1 (Gen2)
	PCI	4	4	5
Memory	Technology	Dual Channel DDR4 3200 MHz	Dual Channel DDR4 2400/2666/2933 MHz	Dual Channel DDR4 2400/2666 MHz
	Max. Capacity	64 GB	64 GB	64 GB
	Socket	2 x 288-pin DIMM	2 x 288-pin DIMM	2 x 288-pin DIMM
Graphics	Controller	Intel UHD Graphics	Intel HD Graphics	Intel HD Graphics
	VRAM	Shared system memory subject to OS	Shared system memory subject to OS	Shared system memory subject to OS
Ethernet	Interface	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
	Controller	GbE LAN1: Intel I219-V GbE LAN2: Intel I225-V (G2 Only)	GbE LAN1: Intel I219-V GbE LAN2: Intel I211-AT (G2 Only)	GbE LAN1: Intel I219-V GbE LAN2: Intel I211-AT (G2 Only)
M.2	Slot	PCIe x2 M-key 2280 type (G2 only)	PCIe x2 M-key 2280 type (G2 only)	-
SATA	Max. Data Transfer Rate	600 MB/s	600 MB/s	600 MB/s
	Channel	4	4	4
I/O Interface	VGA	1	1	1
	DVI	-	1 (G2 Only)	1 (G2 Only)
	DP	-	-	-
	HDMI	1 (G2 Only)	-	-
	USB	G2: 10 (4 USB 3.2 and 6 USB 2.0) VG: 7 (2 USB 3.2 and 5 USB 2.0)	G2: 10 (6 USB 3.2 and 4 USB 2.0) VG: 7 (4 USB 3.2 and 3 USB 2.0)	9 (4 USB 3.2 and 5 USB 2.0)
	Serial	G2: 6 VG: 2	G2: 6 VG: 2	G2: 6 VG: 2
	PS/2	-	Optional	2 (1 x keyboard and 1 x mouse)
	Ethernet (GbE)	G2: 2 VG: 1	G2: 2 VG: 1	G2: 2 VG: 1
Watchdog Timer	Audio	Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out
	Output	System reset	System reset	System reset
	Interval	Programmable, 1-255 Sec	Programmable, 1-255 Sec	Programmable, 1 ~ 255 sec

✓: supported, -: not supported, Δ: optional

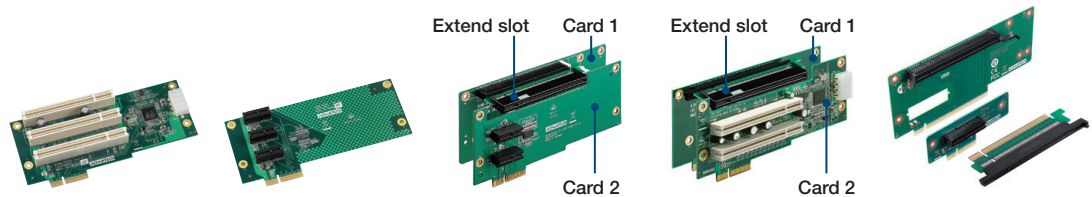
- 1 IoT Software Solutions
- 2 Intelligent Systems
- 3 SKY Servers
- 4 AI & Advanced Computer Vision
- 5 Intelligent HMI and Monitors
- 6 Automation Computers
- 7 Intelligent Transportation Platforms
- 8 Mission Critical CompactPCI Platforms
- 9 Utility and Energy Solutions
- 10 EtherCAT Solutions and Automation Controllers
- 11 Intelligent Motion Control Solutions
- 12 High Speed DAQ Solutions
- 13 Industrial Communication
- 14 Intelligent Edge DAQ Devices
- 15 Remote I/O, Wireless I/O & Sensors
- 16 Serial Communication

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Riser Cards



Model		AIMB-RP10P-01A1E	AIMB-R4104-01A1E	AIMB-RF10F-01A1E	AIMB-RP30P-03A1E	AIMB-RP3PF-21A1E	AIMB-RP3P8-12A1E
Interface		PCI	PCIe x4	PCIe x 16	PCI	PCIe x16/PCI	PCIe x16/PCI
Expansion Slots		1 PCI	1 PCIe x4	1 PCIe x 16	3 PCI	1 PCIe x16 + 2 PCI	2 PCIe x8 + 1 PCI
Chassis	1U	✓	✓	✓	-	-	-
	2U	-	-	-	✓	✓	✓
ATX	AIMB-788	-	-	-	-	-	-
	AIMB-787	-	-	-	-	-	-
	AIMB-786	-	-	-	-	-	-
	AIMB-785	-	✓	✓	-	-	-
	AIMB-708	✓	-	✓	✓	✓	-
	AIMB-707	✓	-	✓	✓	✓	-
	AIMB-706	✓	-	✓	✓	✓	-
	AIMB-705	✓	-	✓	✓	✓	-



Model		AIMB-R430P-03A2E	AIMB-R4301-03A2E	AIMB-R431F-21A1E	AIMB-R43PF-21A1E	ASMB-RM2F4-11A1
Interface		PCIe x4	PCIe x4	PCIe x16/PCIe x4	PCIe x16/PCIe x4	PCIe x16 / PCIe x4
Expansion Slots		3 PCI	3 PCIe x1	1 PCIe x16 + 2 PCIe x1	1 PCIe x16 + 2 PCI	PCIe x16 / PCIe x4
Chassis	1U	-	-	-	-	-
	2U	✓	✓	✓	✓	✓ (ACP-2020G only)
ATX	AIMB-788	✓	△	□	✓	✓
	AIMB-787	✓	△	□	✓	✓
	AIMB-786	✓	△	□	✓	✓
	AIMB-785	✓	△	□	✓	✓

✓: Fully compatible
 □: Only the PCIe x 16 and PCIe x1 (bottom slot) connectors work.
 △: Only one PCIe x1 connector works (top slot).