



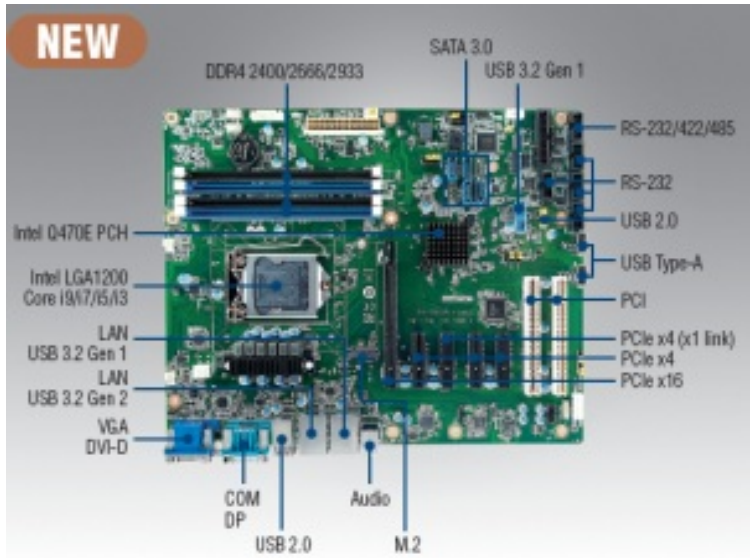
advantech AIMB-787 User Manual

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advantech AIMB-787 User Manual



Features

- Intel® 10th generation Core™ i9/i7/i5/i3 & Pentium®/Celeron® processor with Q470E chipset
- Four DIMM sockets up to 128 GB DDR4 2933
- Triple display DP/DVI-D/VGA and dual GbE LAN
- M.2, SATA RAID 0, 1, 5, 10, USB 3.2
- Supports Intel vPro, AMT & TPM technologies

Note 1: TPM module is required to enable Intel vPro and TPM technologies.

Note 2: Legacy platform is not supported.

Specifications

Processor System	CPU													
	E-18000	E-18000	E-18000G	E-18000	E-18000G	E-18000	E-18000G	E-18000	E-18000G	E-18000	E-18000G	E-18000	E-18000G	E-18000
Base Frequency	2.7GHz	2.7GHz	1.8GHz	2.8GHz	3.8GHz	3.1GHz	3.3GHz	3.2GHz	3.3GHz	3.8GHz	3.2GHz	3.3GHz	3.8GHz	3.8GHz
L3 Cache	20MB	20MB	20MB	16MB	16MB	12MB	12MB	8MB	8MB	8MB	4MB	4MB	2MB	3MB
Cores	10	10	10	8	8	6	6	4	4	3	2	2	2	3
TDP	125W	62W	35W	65W	35W	65W	35W	65W	35W	65W	35W	65W	35W	35W
Socket	LGA 1200													
Chipset	Q470E													
BIOS	AMI (UEFI/BIOS) UEFI													
Expansion Slot	PCI PCIe x4 (Gen 3) PCIe x16 (Gen 3)		2 (32-bit/33 MHz) 4 (3 x link x4, 1 x link x1) 1											
Memory	Technology Max. Capacity Socket		Dual Channel (Non-ECC) DDR4 2400/2666/2933 128 GB 4 x 288-pin DIMM											
Graphics	Controller VRAM		Intel HD Graphics 1 GB maximum shared memory with 2 GB and above system memory installed											
Ethernet	Interface Controller Connector		10/100/1000 Mbps GbE LAN1: Intel I219-LM, GbE LAN2: Intel I210-AT 2 x RJ-45											

Part Number	Description
1700002204	2-port USB 2.0 cable w/ BKT(27 cm)
700028292-01	2-port USB 3.0 cable w/ BKT(30 cm)
1960052651N021	CPU cooler for 2U, 4U and wallmount chassis (for CPU TDP=35~65W)
1960067860N001	CPU cooler for 4U chassis (for CPU TDP=95~125W)
1701090401	Single COM port cable(40 cm)
1701092300	Dual COM port cable(28.5 cm)
1700022749-11/ 1700022749-12/ 1700022749-13	SATA power cable
1700019268-11	PS/2 KB/Mouse cable
1960063434N000	IO bracket for PS/2 KB/Mouse cable
PCA-TPM-00B1E	TPM2.0 module to enable TPM and vPro technologies

Note 1: Purchasing AIMB-787's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with AIMB-787.

Note 2: 1960067860N001 cooler for 95~125W CPU is tested with ACP-4000/IPC-610H chassis.

Riser Card

Part Number	Description
AIMB-R430P-03A2E	2U riser card with 3 PCI expansion
AIMB-R431F-21A1E	2U riser card with 1 PCIe16 & 1 PCIe1 expansion
AIMB-R43PF-21A1E	2U riser card with 1 PCIe16 & 2 PCI expansion
AIMB-R4301-03A1E	2U riser card with 1 PCIe1 expansion

Note: AIMB-787 is not compatible with 1U chassis.

Packing List


Part Number	Description	Quantity
1700003194	SATA HDD cable	x 2
1960086615T001	I/O port bracket	x 1
2041078710	Startup manual	x 1

I/O View



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References

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