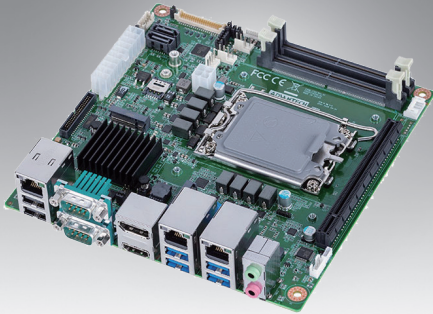


M/B offering for PPC-600

PPC-MB-620

NEW



Features

- Supports Intel® 12/13th Gen Core™ i processor (LGA1700) with Intel Q670E/H610E chipset
- Two 262-pin SO-DIMM up to 64GB DDR5 4800 MHz SDRAM
- Supports triple display of DP/HDMI/LVDS
- Supports PCIe x16 (Gen 5), 1 x M.2 M key & 1 M.2 E key, 6 USB 3.2
- Supports 2 x SATA 3.0 (Raid 0, 1) (only for PCH Q670E)
- Supports TPM 2.0
- Supports 4 x RS-232, 1 x RS-232/422/485
- Supports 1 x GPIO(8 channels)

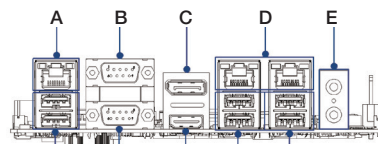
Specifications

13th Generation Processors	CPU	i9-13900E/i9-13900TE	i7-13700E/i7-13700TE	i5-13500E/i5-13500TE	i3-13100E/i3-13100TE
	Core Number	24/24	16/16	14/14	4/4
Max Speed	1.8GHz (Up to 5.2GHz)/ 1.0GHz (Up to 5.0GHz)	1.9GHz (Up to 5.1GHz)/ 1.1GHz (Up to 4.8GHz)	2.4GHz (Up to 4.6GHz)/ 1.3GHz (Up to 4.5GHz)	3.3GHz (Up to 4.4GHz)/ 2.4GHz (Up to 4.1GHz)	
SmartCache	36/36MB	30/30MB	24/24MB	12/12MB	
TDP	65W/35W	65W/35W	65W/35W	60W/35W	
12th Generation Processors	CPU	i9-12900E/i9-12900TE	i7-12700E/i7-12700TE	i5-12500E/i5-12500TE	i3-12100E/i3-12100TE
	Core Number	16/16	12/12	6/6	4/4
Max Speed	2.3GHz (Up to 5.0GHz)/ 1.1GHz (Up to 4.8GHz)	2.1GHz (Up to 4.8GHz)/ 1.4GHz (Up to 4.6GHz)	2.9GHz (Up to 4.5GHz)/ 1.9GHz (Up to 4.3GHz)	3.2GHz (Up to 4.2GHz)/ 2.1GHz (Up to 4.0GHz)	
SmartCache	30/30MB	25/25MB	18/18MB	12/12MB	
TDP	65W/35W	65W/35W	65W/35W	60W/35W	
Memory	2 x 262-pin SODIMM DDR5 , 4800 MHz , up to 64 GB (non-ECC)				
Chipset	Q670E			H610E	
Ethernet	Controller	LAN1: 1Gb Intel i219LM (support AMT 16.0 only for i7 & i5) LAN2: 2.5Gb Intel i226-LM		LAN1: 1Gb Intel i219LM LAN2: 2.5Gb Intel i226-LM LAN3: 2.5Gb Intel i226-LM	
	Connector	RJ45 x2		RJ45 x3	
Rear I/O	USB	6 (USB 3.2 Gen 2)		6 (2 x USB 3.2 Gen 2, 2 x USB 3.2 Gen 1, 2 x USB 2.0)	
	Ethernet	2		3	
	Display Port	1			
	HDMI	1			
	Audio	2 (Mic-in, Line-out)			
Internal Connector	Serial	2 (1 x RS-232/422/485, 1 x RS-232)			
	USB	3 x USB 2.0		1 x USB 2.0	
	SATA	2 x SATA 3.0 (support RAID 0,1)		2 x SATA 3.0	
	Serial	3 x RS-232			
	TPM	1			
Expansion Slot	M.2	1 x slot (2280 M key) for storage(SATA & PCIe*4); 1 x slot (2230 E key) for wireless (PCIe & USB2.0)			
	PCIe x16 (Gen5)	1 x slot (3042 & 3052 B key) support PCIe&USB3.1&USB2.0		1 x slot (3042 & 3052 B key) support PCIe & USB2.0	
Watchdog Timer	255 timer intervals , configurable using software				
Dimensions	170 mm x 170 mm (6.69 x 6.69)				
OS Support	Microsoft® Win 10 IOT LTSC(64-bit)/Win 11, Linux				

Ordering Information

Part Number	Description
PPC-MB-620A	12/13th Core i M/B, H610E, 3 x LAN
PPC-MB-620B	12/13th Core i M/B, Q670E, 2 x LAN

I/O view



Note: * Gigabit Ethernet only for PPC-MB-620A (H610E)

** 2 x USB2.0 for PPC-MB-620A (H610E)
2 x USB3.2 for PPC-MB-620B (Q670E)

- A. Gigabit Ethernet*
- B. RS232
- C. Display Port
- D. 2 x Gigabit Ethernet
- E. Line-out/Mic-in
- F. 2 x USB**
- G. RS232/422/485
- H. HDMI
- I. 2 x USB
- J. 2 x USB