H610M3 v:1.0

Micro ATX_ form factor, Based on Intel® Alder Lake_H610 chipset

Processor-**LGA1700** socket / **6**W TDP

ideal for embedded systems, edge computing, IoT devices.



Features

- CPU: LGA1700 12th~14th Intel® Celeron/Pentium/Core™ i3/i5/i7/i9
- Memory: Dual channel DIMM DDR4 up to 64GB
- Display: Intel® HD Graphics; VGA+2*HDMI displays
- Ethernet: 2* I210AT GbE Ports
- Storage: 4* SATA3.0; 1* M.2
- Expansion: 1* PCIE5.0 X16; 1* PCIE3.0 X4; 2* PCI
- Power: ATX

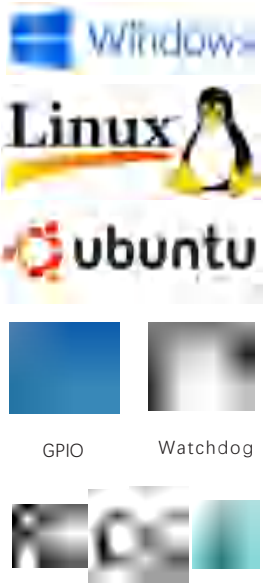
intel IoT Solutions Alliance
Industrial Solution Builders Specialist

Scan to know more

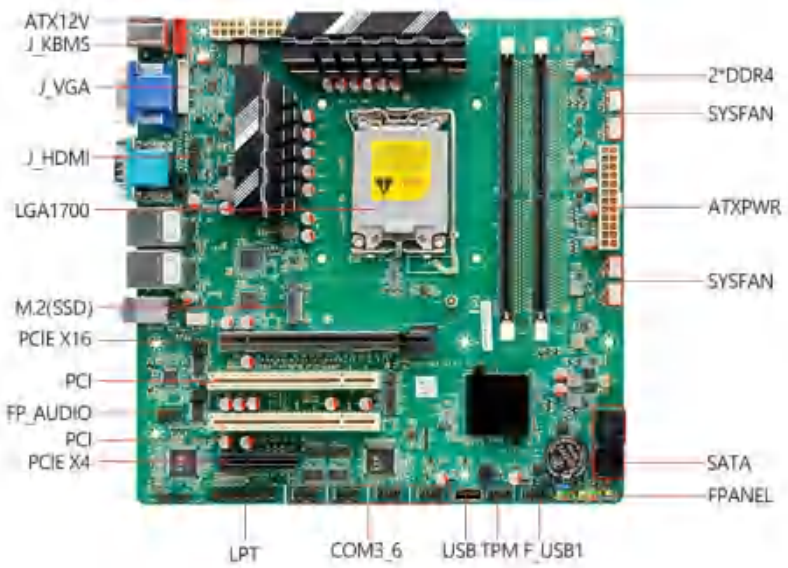
Introduction

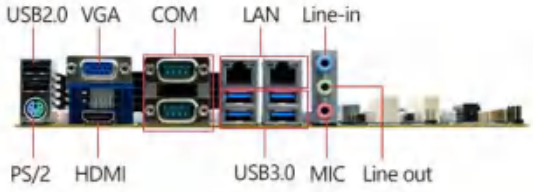
The Senbainno H610M3 is a high-performance Micro-ATX motherboard based on the Intel H610 chipset. It supports 12th, 13th, and 14th generation Intel® Celeron, Pentium, and Core™ i3/i5/i7/i9 processors (LGA1700). It features two DDR4 DIMM slots, supporting memory speeds up to 3200MHz and a maximum capacity of 64GB. Integrated with an Intel® HD graphics controller, it delivers high-performance video output via one VGA port and two HDMI ports. Networking capabilities include dual Intel® I210AT Gigabit Ethernet controllers, while storage connectivity is provided by four SATA 3.0 ports offering transfer speeds up to 6Gbps. Additionally, it supports six RS-232 serial ports, with COM1 and COM2 configurable for RS-485/422 operation.

With powerful computing capabilities and robust integrated performance, the H610M3 combines low power consumption with high performance, making it suitable for a wide range of industrial applications. It is ideal for use in industrial control, information systems, financial equipment, automated ticketing systems, automotive sectors, military applications, and various terminal markets.



I/O Interfaces



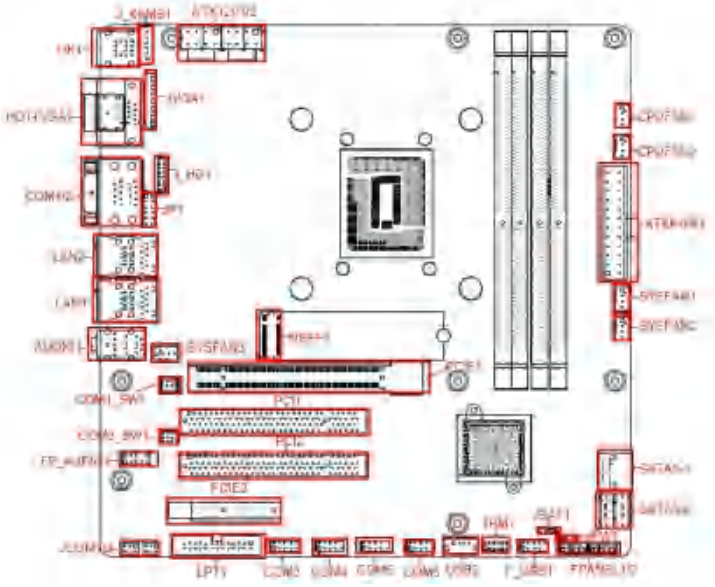


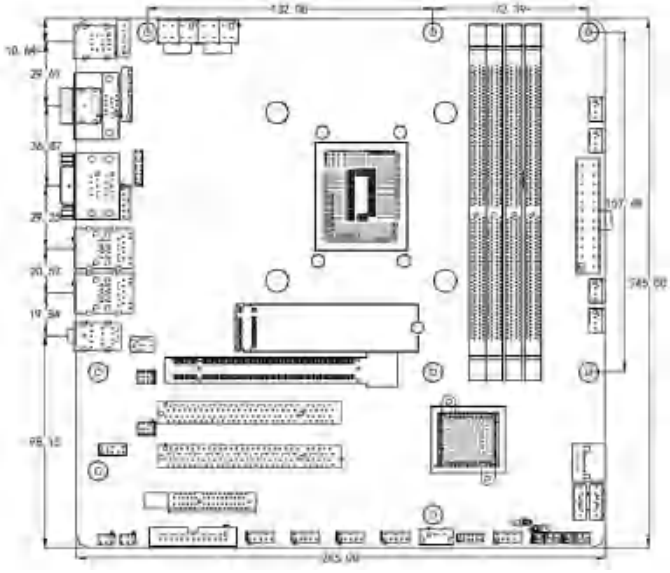
Specifications:

Model No.	H610M3 VER:1.0
Processor	Support LGA1700 12th/13th/14th Intel® Celeron/Pentium/Core™ i3/i5/i7/i9 processor
Chipset	Intel H610 high speed chipset
RAM	2* DIMM slot ,support dual channel 3200MHz DDR4 memory, up to 64GB
Dispay	Intel® HD Graphics,support DirectX12.1,OpenGL4.5, support 4K
	1* VGA; Max: 1920X1200@60Hz
	2* HDMI1.4; Max: 4096x2160 @24Hz
Ethernet	2* Intel® I210AT Gigabit Ethernet Lan, support Wake_on_LAN/PXE function
Storage	4* SATA3.0 hard drive interface, transmission rate up to 6Gbps
	1* M.2 slot; support M.2 Key M 2280 NVME PCIE3.0 X1 standard SSD
Audio	Onboard ALC897 7.1+2 channel high-fidelity audio controller, supports MIC/Line-out/Line-in
Expansion Slot	1* PCIE5.0 X16
	1* PCIE3.0 X4
	2* PCI
Rear I/O interface	1* PS/2 interface (expandable keyboard and mouse)
	1* DB15 VGA ; 1* HDMI1.4
	2* DB9 RS232 serial port, supports 9th pin power function, supports RS485/422
	2* USB2.0 interface; 4* USB3.0 interface (5Gbps), supports single-port 2A current
	2* RJ-45 Gigabit network interface
	1* three-layer audio interface, supports Line-out, MICK, Line-in
Built-in I/O interface	2* USB2.0; 2*5pin, 1* vertical USB2.0
	1* front panel audio interface (2*5pin)
	2* front panel function button and indicator interface (2*5pin)
	1* 24pin ATX power socket 2* 8pin ATX power socket
	1* PS/2 keyboard and mouse interface 1*6pin
	1* JVGA interface 1*12pin, same signal as DB15
	1* TPM interface 2*6pin
	4* RS232 serial port, 2*5pin
	1* LPT interface 2*13pin
Fan interface	1* 4pin CPU smart fan interface,4* 4pin system fan interface
BIOS	128Mb Flash ROM
Watchdog	Support hardware reset function (256 levels, 0~255 seconds)
OS	Windows 10/Windows 11/Linux
Power type	ATX 24Pin and 8pin power supply
Operating temperature	-20℃ ~ 60℃
Storage temperature	-20℃ ~ 70℃
Working humidity	5%-95% relative humidity, non-condensing
Size	245mm x 245mm

*All specifications and photos are subject to change without notice

Interface Diagram





Ordering Info

No.	Model	Processor	South bridge	Memory	VGA	HDMI	LAN	USB	COM	RS485/RS422	Power
1	H610M3 VER:1.0	LGA1700	H610	2*DDR4	1	2	2*I210AT	9	6	COM1/COM2	ATX

!! *For customized options, please consult regional sales. And please conrm the model name and description before purchasing.

*The model name and description might vary due to inventory changes.

Shenzhen Senba Innovation Technology Co., Ltd.

Room 1902, 19th Floor, Building T12, Colorful Silicon Valley, Pingshan Industrial Zone, Pingshan District, Shenzhen ,Guangdong, China.

www.senbatech.com