H110M3 v:1.0

Micro ATX_ form factor, Based on Intel® Skylake_H110 chipset

Processor-**LGA1151** socket / **6**W TDP

ideal for embedded systems, edge computing, IoT devices.



Features

- CPU: LGA1151 6th/7th/8th/9th Celeron/Pentium/Core I3/I5/I7/I9
- Memory: Dual channel DIMM DDR4 up to 64GB
- Display: Intel® HD Graphics; VGA+HDMI displays
- Ethernet: 2* I210AT GbE Ports
- Storage: 4* SATA3.0; 1* M.2 NVME
- Expansion: 1* PCIE3.0 x16; 1* PCIE2.0 x4; 2* PCI
- Power: ATX

intel IoT Solutions Alliance
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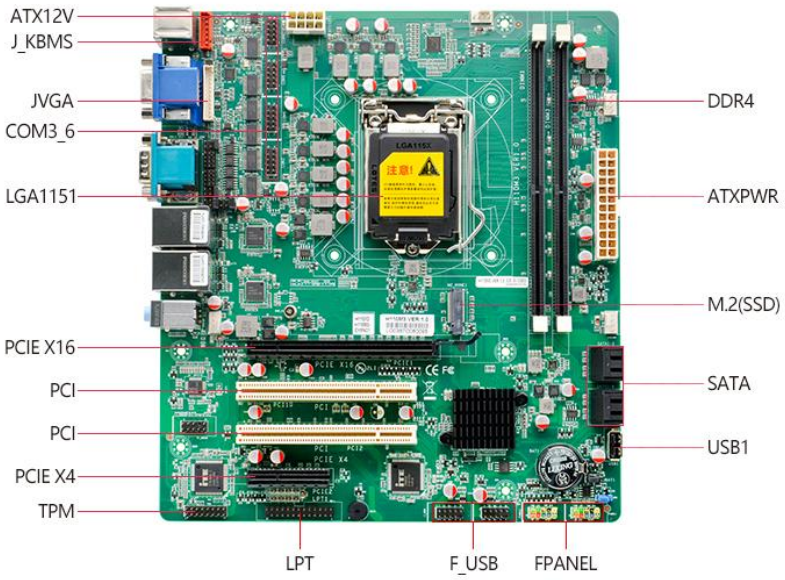
Introduction

The Senbainno H110M3 motherboard utilizes the Intel H110 chipset and supports LGA1151-based 6th, 7th, 8th, and 9th generation Intel® Core™ i7/i5/i3, Pentium, and Celeron processors. It features integrated Intel® HD graphics for high-performance display output, supporting both VGA and HDMI interfaces. The board is equipped with two dual-channel DDR4 DIMM slots (supporting up to 64GB of memory), dual Intel® I210AT Gigabit Ethernet controllers, four SATA 3.0 ports, and six RS232 serial ports (with COM1 and COM2 supporting RS232/RS485/RS422 modes). Expansion options include one PCIe x16 slot, two PCI slots, one PCIe x4 slot, and an M.2 slot for SSDs.

Offering stable, reliable industrial-grade performance and network security management capabilities, this motherboard effectively meets the needs of most professional clients. It is primarily designed for applications such as servers, industrial control systems, broadcasting and media asset management back-ends, centralized surveillance data processing, and other high-performance, compact embedded products.

GPIO Watchdog

I/O Interfaces





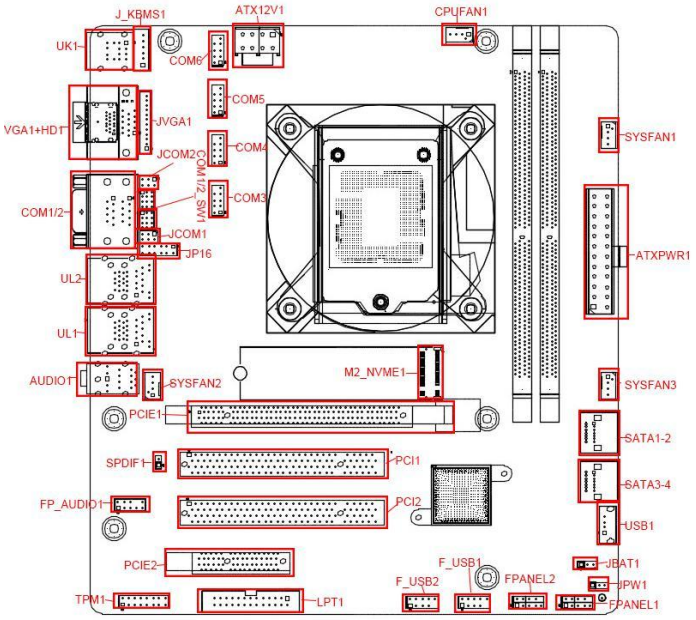
Specifications:

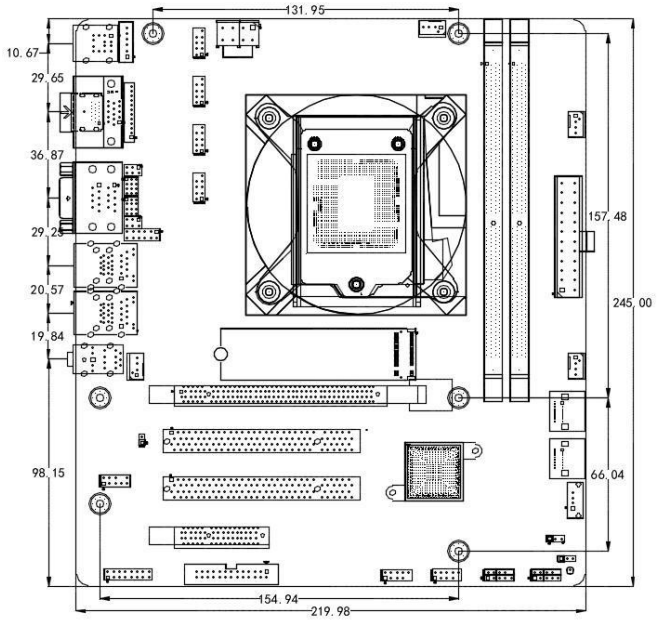
Model No.	H110M3 VER:1.0
Processor	Supports LGA1151 architectural 6th/7th/8th/9th Celeron/Pentium/Core I3/I5/I7/I9 processor
Chipset	Intel H110 high speed chipset
RAM	2* DIMM slot ,support dual channel 2133/2400/2666MHz DDR4 memory, up to 64GB
Dispay	Integrated Intel® HD Graphics, 1*VGA and 1*HDMI 1.4
	Support independent display, dual display mode, extended mode
Ethernet	2* Intel® I210AT Gigabit Ethernet Lan, support Wake_on_LAN/PXE function
Storage	4* SATA3.0, the transfer rate is up to 6Gbps
	1* M.2 slot, support M.2 2280 NVME PCIE2.0 x1 standard SSD
Audio	Onboard ALC897 7.1+2 high fidelity audio controller, supports Mic and Line out, Line in
Expansion Slot	1* PCIE3.0 x16
	1* PCIE2.0 x4
	2* PCI
Rear I/O interface	1* PS/2 keyboard and mouse interface
	1* VGA
	1* HDMI
	2* RS232, (COM1/2 support 5V/12V powered operation; COM1/2 support RS485/422 functionality)
	2* USB 2.0
	4* USB 3.0, supports 2A current per port
	2* RJ-45 Gigabit Network interface
	1* Line out (Green), 1* MIC (Red), 1* Line-in (Blue)
Built-in I/O interface	4* RS232, 2*5pin
	1* JVGA1, 1* 12pin (Same signal as DB15)
	1* PS/2 keyboard mouse interface; 1* 6pin (Same signal as UK1)
	1* LPT, 2*13pin
	1* Front audio interface, 2* 5pin
	4* USB 2.0, 2*5Pin
	1* USB2.0, USB-TYPE A
	1* TPM, 2*8pin
	1* Front panel function button and indicator light interface, 2*5pin
	1* 24pin ATX power input interface
	1* 8pin ATX power input interface
Fan interface	1* 4pin CPU smart fan connector, 3* 4pin system smart fan connector
BIOS	64Mb Flash ROM
Watchdog	Support hardware reset function (256 levels, 0~255 seconds)
OS	Windows 7 / 10 / 11/Linux
Power type	ATX power input
Operating temperature	-20℃ ~ 60℃
Storage temperature	-20℃ ~ 70℃

Working humidity	5%-95% relative humidity, non-condensing
Size	245mm x 220mm(mATX)

*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	H110M3 VER:1.0	LGA1151	H110	2*DDR4	1	1	2*I210AT	11	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.

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