H390M3 v:1.0

Micro ATX_ form factor, Based on Intel® Coffee Lake_Z390 chipset

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

ideal for embedded systems, edge computing, IoT devices.



Features

- CPU: LGA1151 6th/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
- Expansion: 1* PCIE x16; 1* PCIE x4; 2* PCI
- Power: ATX

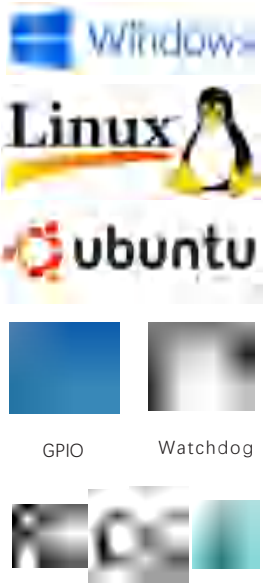
intel IoT Solutions Alliance
Industrial Solution Builders Specialist

Scan to know more

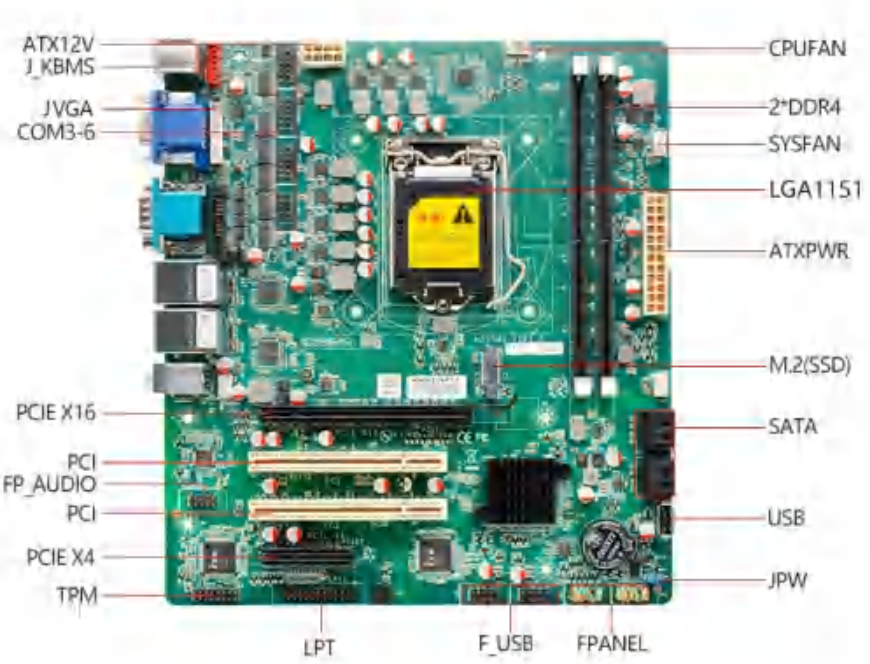
Introduction

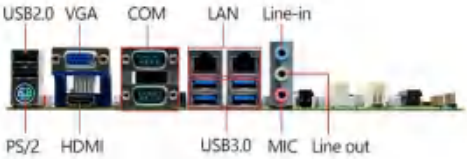
The Senbainno H390M3 motherboard utilizes the Intel Z390 high-speed chipset and supports LGA1151-socket 6th, 8th, and 9th generation Intel Core i7/i5/i3, Pentium, and Celeron processors. It features integrated Intel® HD graphics for high-performance display output, supporting VGA and HDMI interfaces as well as independent dual-display setups. 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 RS232/422/485 modes), along with an M.2 slot for SSD storage.

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, broadcast media asset management back-ends, centralized surveillance data hubs, and other high-performance, compact embedded products.



I/O Interfaces





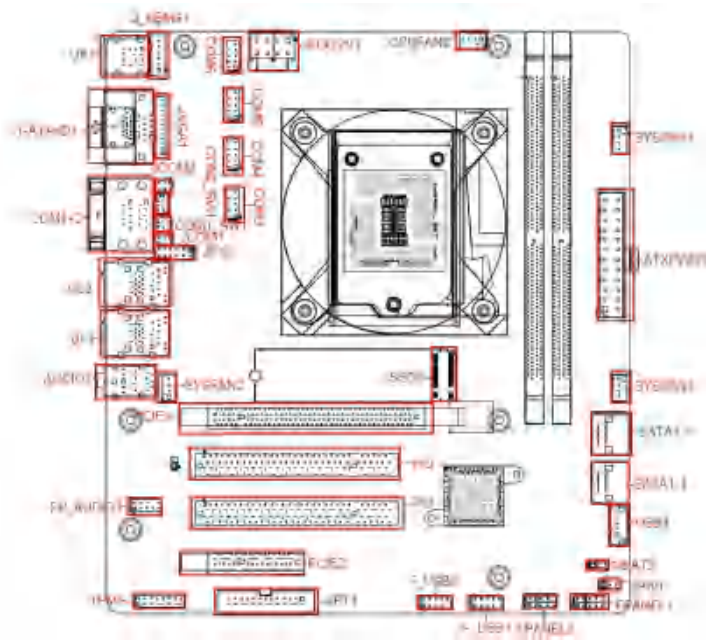
Specifications:

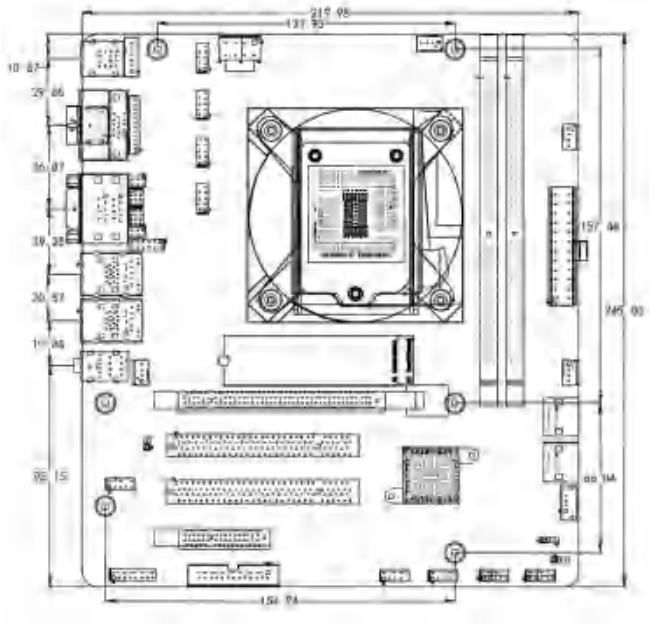
Model No.	H390M3 VER:1.0
Processor	Supports LGA1151 architectural 6th/7th/8th/9th Celeron/Pentium/Core I3/I5/I7/I9 processor
Chipset	Intel Z390 high speed chipset
RAM	2* DIMM slot ,support dual channel 2133/2400/2666MHz DDR4 memory, up to 64GB
Dispay	Integrated Intel® HD Graphics, 1* VGA and 1* HDMI 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, support RAID 0,1,5,10
	1* M.2 slot, support M.2 2280 PCIE x4/SATA adaptive standard SSD
Audio	Onboard ALC897 7.1+2 high fidelity audio controller, supports Mic and Line out, Line in
Expansion Slot	1* PCIE x16
	1* PCIE 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	1* PS/2 keyboard/mouse header (1* 6-pin); shares signals with UK1
	1* JVGA header (1* 12-pin); shares signals with DB15
	4* RS232 serial headers (2* 5-pin)
	1* Front audio header (2* 5-pin)
	4* USB 2.0 headers (2* 5-pin)
	1* USB 2.0 port (Type-A)
	1* TPM header (2* 8-pin)
	2* Front panel button and indicator headers (2* 5-pin)
	1* LPT header (2* 13-pin)
	1* 24-pin ATX power input connector
	1* 8-pin ATX power input connector
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	0℃ ~ 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	H390M3 VER:1.0	LGA1151	Z390	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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