W390DM v:1.1

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
- 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* MSATA; 1* M.2
- Expansion: 1* PCIE3.0 x16; 3* PCIE3.0 x4; 1* PCIE3.0 x1; 2* PCI
- Power: ATX

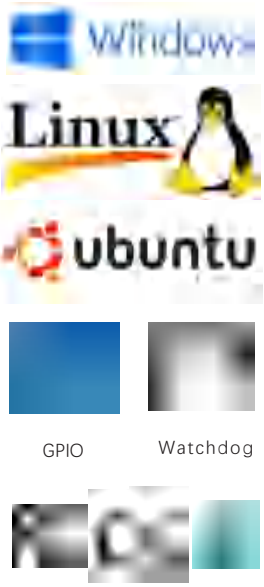
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Industrial Solution Builders Specialist

Scan to know more

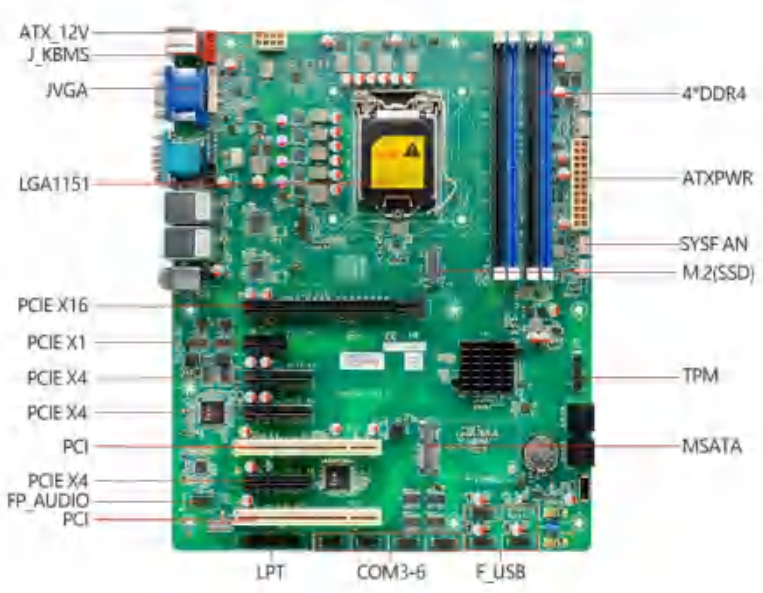
Introduction

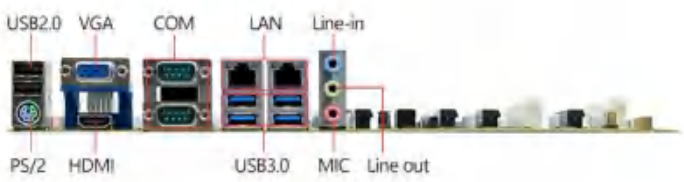
The Senbainno W390DM motherboard utilizes the Intel Z390 high-speed chipset and supports LGA1151-based 8th/9th Gen Intel Core i7/i5/i3, Pentium, and Celeron processors. It features integrated Intel® HD graphics for high-performance display output, supporting VGA and dual HDMI interfaces with independent dual-display capabilities. The board offers four 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). It also includes one mSATA slot and one M.2 slot for SSDs.

Characterized by stable, reliable industrial-grade performance and network security management capabilities, this motherboard effectively meets the needs of most professional clients. Key applications include servers, industrial control systems, broadcast media asset management back-ends, centralized surveillance data hubs, and other high-performance, compact embedded products.



I/O Interfaces





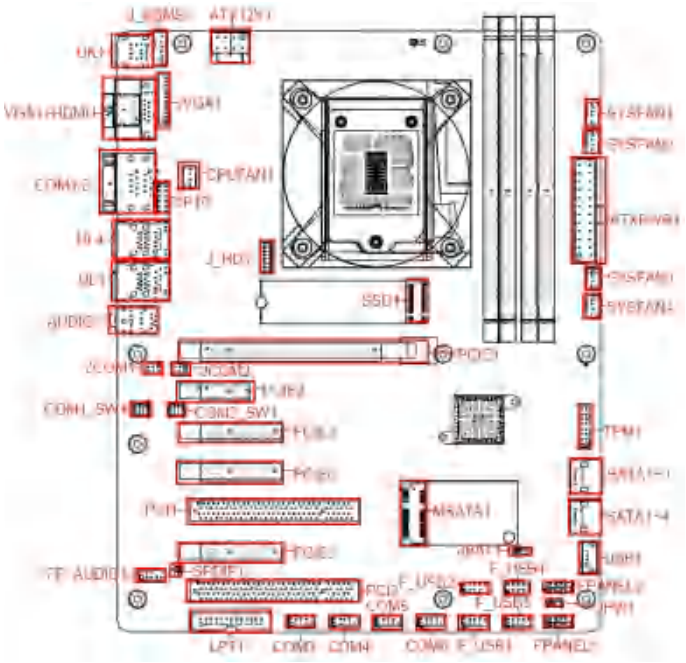
Specifications:

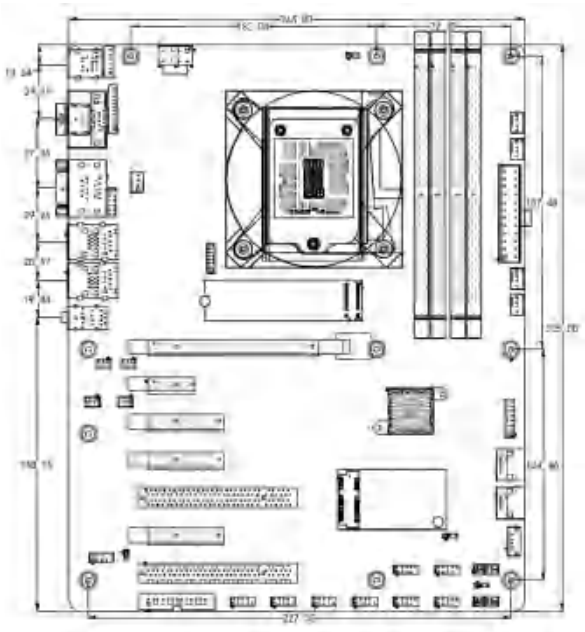
Model No.	W390DM VER:1.1
Processor	Support LGA1151 6th/8th/9th Celeron/Pentium/Core i3/i5/i7 processor
Chipset	Intel Z390 high speed chipset
RAM	4* DIMM slot, support dual channel 2133/2400/2666MHz DDR4 memory, up to 64GB
Dispay	Intel® HD Graphics
	1* VGA; 2* HDMI1.4
	supports independent display, dual-display mode, and extended mode
Ethernet	2* Intel® I210AT Gigabit Ethernet Lan, support Wake_on_LAN/PXE function
Storage	4* SATA 3.0, the transfer rate is up to 6Gbps, support RAID 0,1,5,10
	1* MSATA, support Intel protocol SSD, the transfer rate is up to 6Gbps
	1* M.2, support M.2 2280 NVME PCIE X1/SATA standard SSD
Audio	Onboard ALC897 7.1+2 high-fidelity audio controller, support Mic,Line out,Line-in
Expansion Slot	1* PCIE3.0 x16
	3* PCIE3.0 x4
	1* PCIE3.0 x1
	2* PCI
Rear I/O interface	1* PS/2 keyboard and mouse interface
	1* VGA
	1* HDMI
	2* RS232, COM1/2 supports 5V/12V power supply function, COM1/2 supports RS485/422 function
	2* USB 2.0
	4* USB 3.0, supports 2A current
	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 external VGA)
	1* JHDMI header (2*8-pin)
	4* RS232 serial headers (2*5-pin)
	1* Front audio header (2*5-pin)
	6* USB 2.0, 2*5Pin; The F_USB4 pin header is positioned alongside the Bluetooth and vertical USB 2.0 connectors; it is unpopulated by default
	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; default printer port; configurable as GPIO via BIOS update)
	1* 24-pin ATX power input connector
	1* 8-pin ATX power input connector
Fan interface	1* 4pin CPU smart fan connector, 4* 4pin system smart fan connector
BIOS	64Mb Flash ROM

Watchdog	Support hardware reset function (256 levels, 0~255 seconds)
OS	Windows 7/Windows 10/Linux
Power type	ATX power input
Operating temperature	0℃ ~ 60℃
Storage temperature	-20℃ ~ 70℃
Working humidity	5%-95% relative humidity, non-condensing
Size	305mm x 245mm (ATX)

*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	W390DM VER:1.1	LGA1151	Z390	4*DDR4	1	2	2*I210AT	13	6	2	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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