W570DM v:1.0A

ATX_ form factor, Based on Intel® Rocket Lake_Q570 chipset

Processor-**LGA1200** socket / **6**W TDP

ideal for embedded systems, edge computing, IoT devices.



Features

- CPU: LGA1200 10th/11th Intel® Celeron/Pentium/Core™ i3/i5/i7/i9
- Memory: Dual channel DIMM DDR4 up to 128GB
- Display: Intel® HD Graphics; VGA+2*HDMI displays
- Ethernet: 2* I210AT GbE Ports
- Storage: 4* SATA3.0; 1* M.2
- Expansion: 1* PCIE3.0 x16; 1* PCIE 3.0 X1; 3* PCIE 3.0 X4; 2* PCI; 1* M.2 for 4G/5G LTE
- Power: ATX

intel IoT Solutions Alliance
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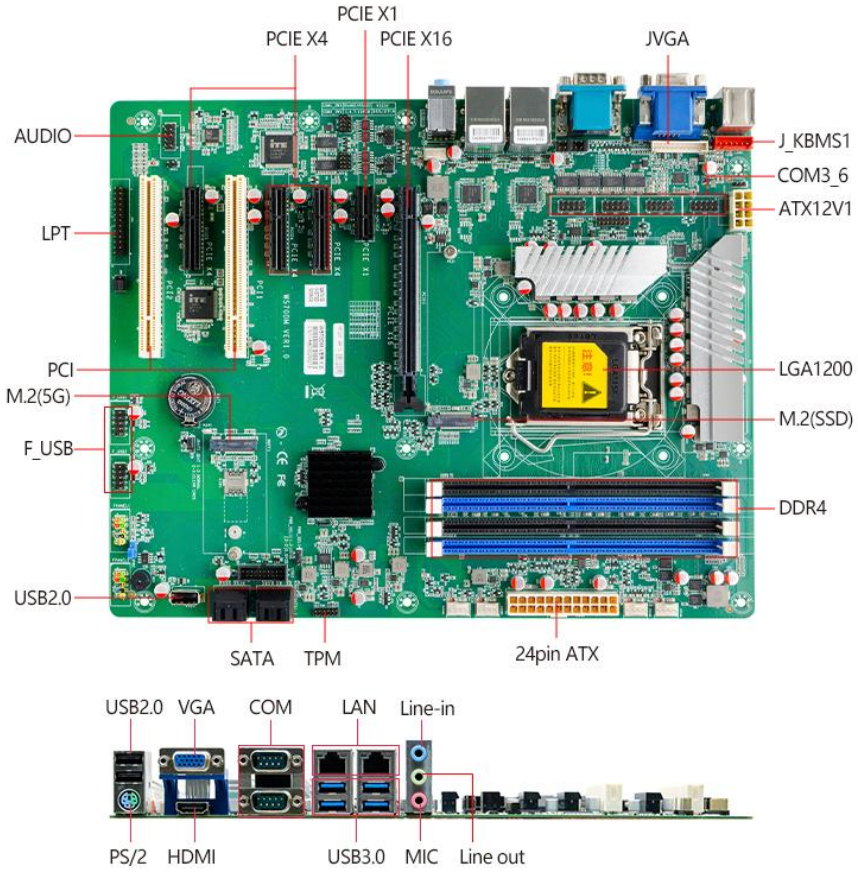
Introduction

The Senbainno W570DM is a high-performance industrial motherboard based on the Intel Q570 chipset. It supports 10th and 11th Gen Intel Celeron, Pentium, and Core (i3/i5/i7/i9) processors in the LGA1200 package. The board features four DDR4 DIMM slots, supporting memory speeds up to 3200MHz and a maximum capacity of 128GB. It integrates an Intel HD graphics controller for high-performance display output, providing one VGA port and two HDMI ports. Networking capabilities include dual Intel I210-AT Gigabit Ethernet controllers, while storage options feature four SATA 3.0 interfaces with transfer speeds up to 6Gbps. Additionally, it supports six RS-232 serial ports, with COM1 and COM2 capable of supporting RS-485/422 standards.

With powerful logic processing capabilities and robust integrated performance, the Senbainno W570DM 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.

GPIO Watchdog

I/O Interfaces



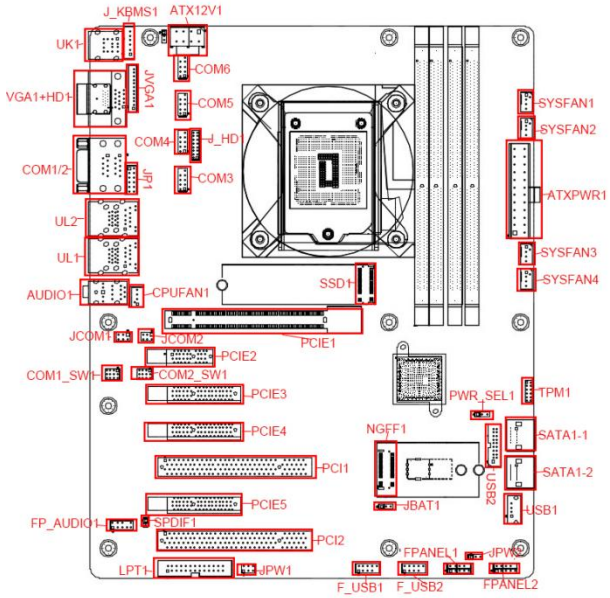
Specifications:

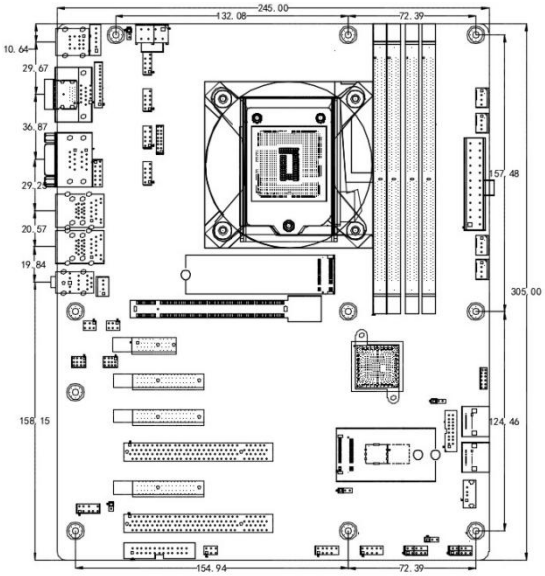
Model No.	W570DM VER:1.0A
Processor	Support LGA1200 10th/11th Intel® Celeron/Pentium/Core™ i3/i5/i7/i9 processor
Chipset	Intel Intel® Q570 high speed chipset
RAM	4* DIMM slot, support dual channel 3200MHz DDR4 memory, up to 128GB
Dispay	Intel® HD Graphics; support DirectX12.1,OpenGL4.5, support 4K display
	1* VGA; maximum resolution: 1920X1200@60Hz
	2* HDMI1.4; maximum resolution: 4096x2160 @24Hz
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* M.2, support M.2 Key M 2280 PCIE X2 standard SSD
	Note: By default, the M.2 slot supports only PCIe x2 signals. To support PCIe x4, an 11th Gen CPU is required, along with hardware and BIOS modifications.
Audio	Onboard ALC897 7.1+2 high-fidelity audio controller, support Mic,Line out,Line-in
Expansion Slot	1* PCIE3.0 x16
	1* PCIE 3.0 X1
	3* PCIE 3.0 X4
	2* PCI
	1* M.2; support M.2 Key B 2242/2252 4G/5G module
Rear I/O interface	1* PS/2 keyboard and mouse interface
	1* DB15 VGA
	1* HDMI
	2* DB9 RS232, supports the powered Pin 9 function, supports RS485/422
	2* USB 2.0
	4* USB 3.0, supports 2A current
	2* RJ-45 Gigabit Network Interface
	1* Three-port audio interface, supporting Line-out, MIC, and Line-in
Built-in I/O interface	4* USB 2.0 headers (2*5-pin)
	1* Vertical USB 2.0 port
	2* USB 3.0 headers (2*10-pin)
	1* Front panel audio header (2*5-pin)
	2* Front panel function button and indicator headers (2*5-pin)
	1* 24-pin ATX power connector, 1* 8-pin ATX power connector
	1* PS/2 keyboard/mouse header (6-pin)
	1* JVGA header (12-pin; signal compatible with DB15)
	1* JHDMI header (2*8-pin)
	1* TPM header (2*6-pin)
	4* RS-232 serial headers (2*5-pin)
	1* SIM card slot
	1* LPT header (2*13-pin; default printer port, configurable as GPIO via BIOS update)

Fan interface	1* 4pin CPU smart fan connector, 4* 4pin system smart fan connector
BIOS	128Mb Flash ROM
Watchdog	Support hardware reset function (256 levels, 0~255 seconds)
OS	Windows 10/Windows 11/Linux
Power type	ATX 24Pin & 8pin power supply
Operating temperature	-20℃ ~ 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	W570DM VER:1.0A	LGA1200	Q570	4*DDR4	1	2	2*I210AT	13	6	COM1/2	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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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