W270DM v:1.0

ATX_ form factor, Based on Intel® Kaby Lake_Q270 chipset

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

ideal for embedded systems, edge computing, IoT devices.



Features

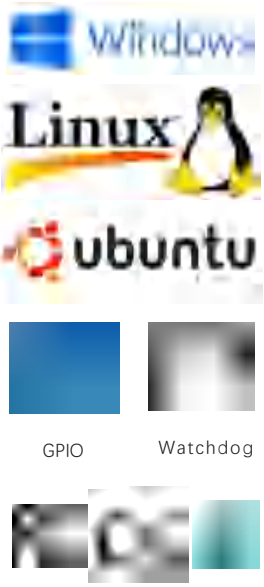
- CPU: LGA1151 6th/7th/8th/9th Celeron/Pentium/Core i3/i5/i7
- Memory: Dual channel DIMM DDR4 up to 128GB
- Display: Intel® HD Graphics; VGA+2*HDMI displays
- Ethernet: 2* I210AT GbE Ports
- Storage: 4* SATA3.0; 1* MSATA; 1* M.2
- Expansion: 1* PCIE3.0 x16; 3* PCIE3.0 x4; 1* PCIE3.0 x1; 2* PCI
- Power: ATX

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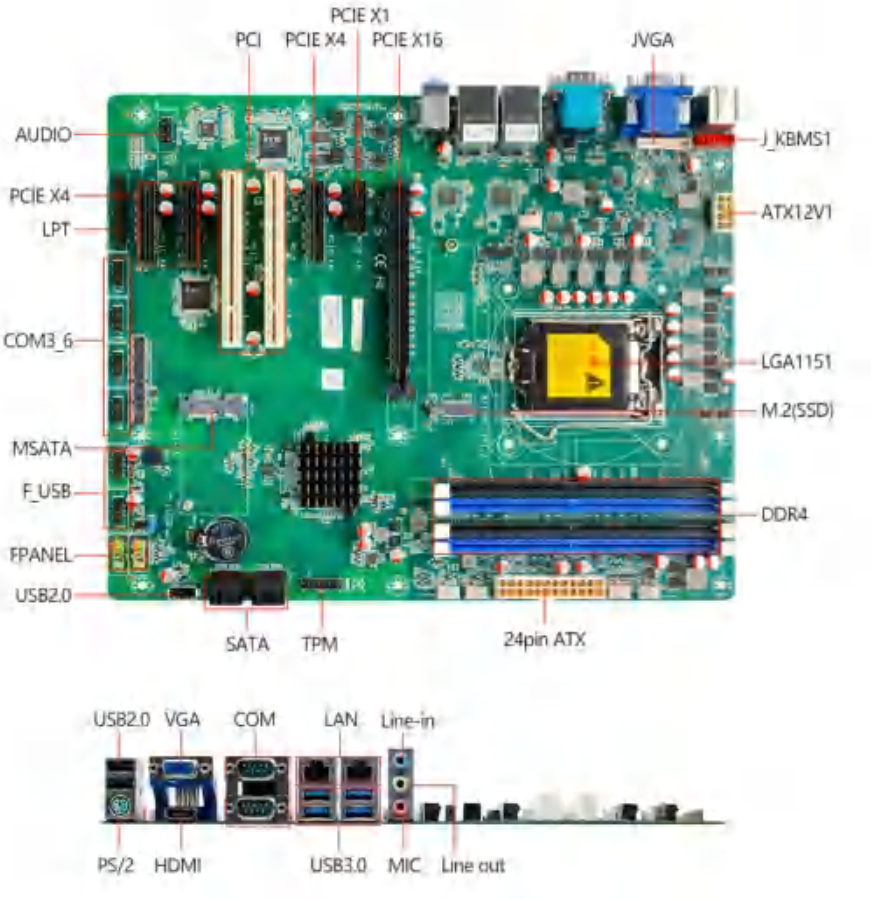
Introduction

The Senbainno W270DM motherboard utilizes the Intel Q270 high-speed 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 one VGA and two HDMI ports. The board offers four dual-channel DDR4 DIMM slots (supporting up to 128GB of memory), dual Intel® I210AT Gigabit Ethernet controllers, four SATA 3.0 interfaces, and six RS232 serial ports (with COM1 and COM2 supporting RS232/RS485/RS422 modes). Expansion options include one PCIe x16 slot, two PCI slots, three PCIe x4 slots, one PCIe x1 slot, and an 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. 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.

I/O Interfaces



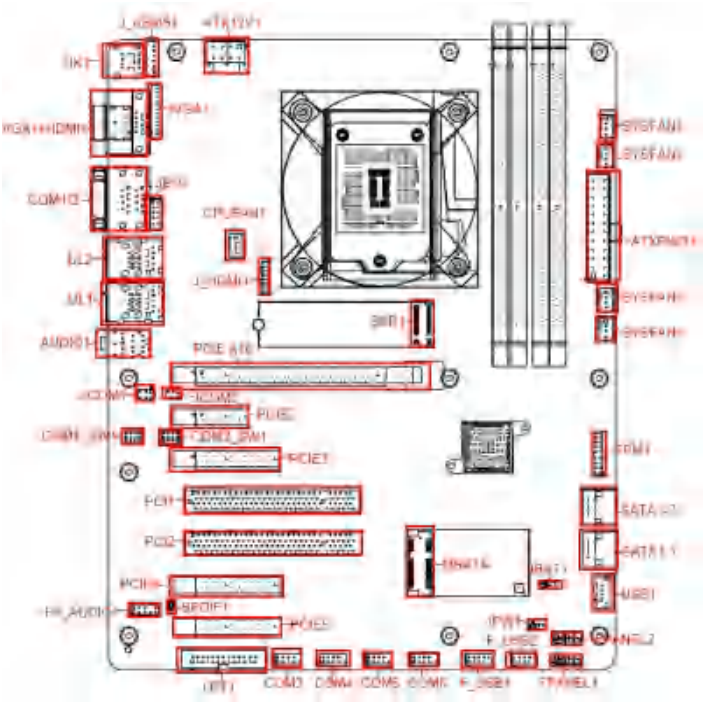
Specifications:

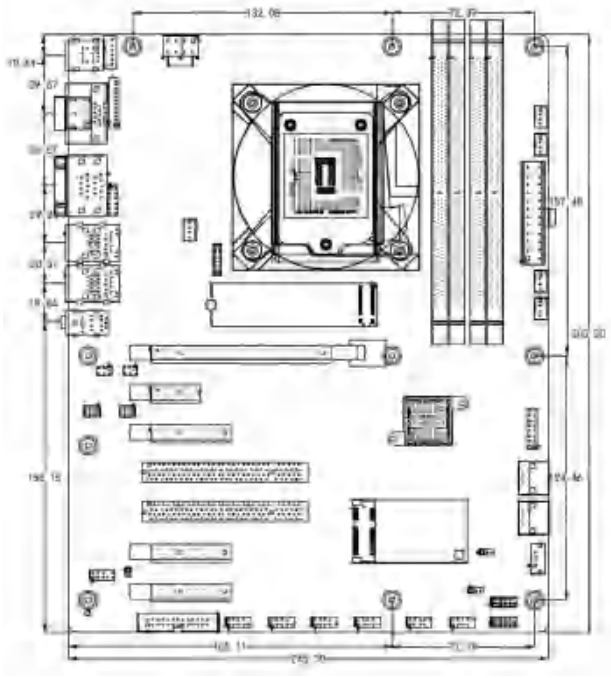
Model No.	W270DM VER:1.0
Processor	Support LGA1151 6th/7th/8th/9th Celeron/Pentium/Core i3/i5/i7 processor
Chipset	Intel Q270 high speed chipset
RAM	4* DIMM slot, support dual channel 2666MHz DDR4 memory, up to 128GB
Dispay	Intel® HD Graphics
	1* VGA; 2* HDMI1.4
	supports independent display, dual-display 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)
	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; 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	W270DM VER:1.0	LGA1151	Q270	4*DDR4	1	2	2*I210AT	11	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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