W86DM v:1.0

ATX_ form factor, Based on Intel® Lynx Point_Z87 chipset

Processor-**LGA1150** socket / **4.1**W TDP

ideal for embedded systems, edge computing, IoT devices.



Features

- CPU: LGA1150 4th Intel® Celeron/Pentium/Core™ i3/i5/i7
- Memory: Dual channel DIMM DDR3 up to 32GB
- Display: Intel® HD Graphics; VGA+2*HDMI displays
- Ethernet: 2* 82583V GbE Ports
- Storage: 5* SATA3.0; 1* MSATA
- Expansion: 1* PCIE x16; 1* PCIE x4; 1* PCIE x1; 4* PCI; 1* Mini-PCIE
- Power: ATX

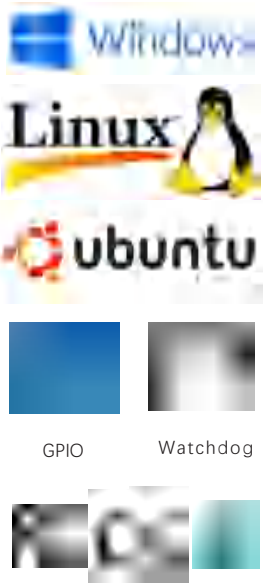
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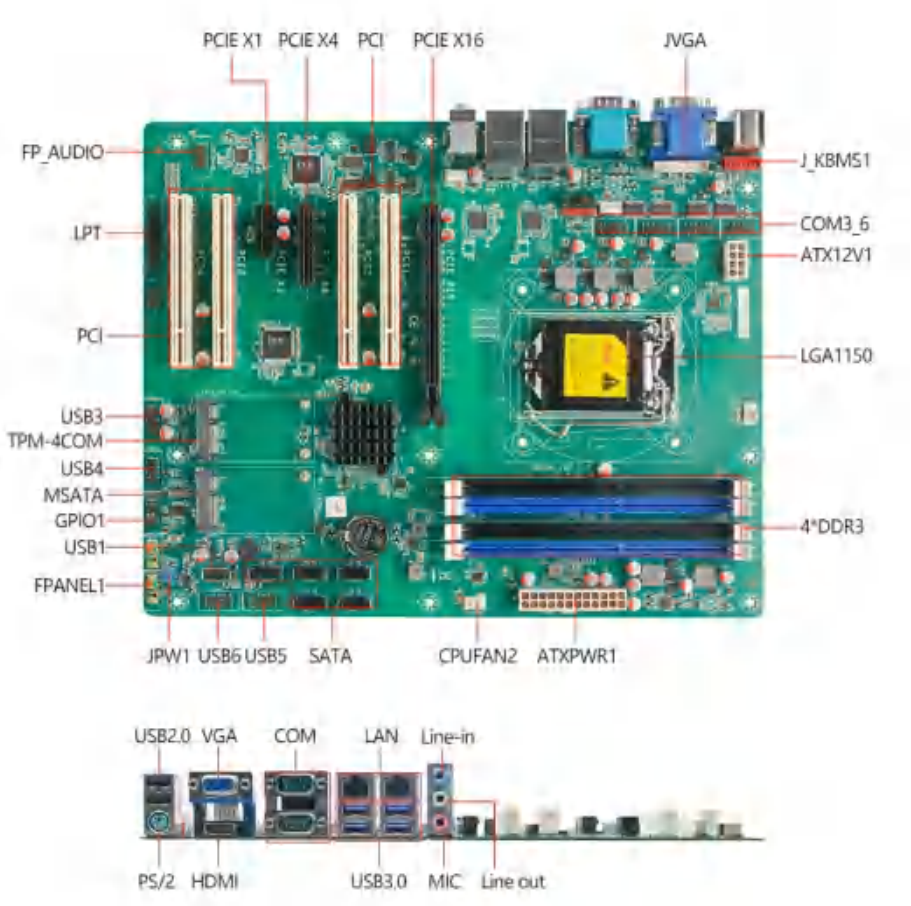
Introduction

The Senbainno W86DM motherboard utilizes the Intel® H87/Z87 high-speed chipset and supports LGA1150-based 4th/5th generation Intel® Core™ i7/i5/i3, Pentium, and Celeron processors. It features integrated Intel® HD graphics for high-performance display output, supporting two VGA ports and one HDMI port with independent dual-display capabilities. The board is equipped with four dual-channel DDR3 DIMM slots (supporting up to 32GB of memory), dual Intel® 82583V Gigabit Ethernet controllers, six SATA 3.0 ports, and ten RS-232 serial ports (with COM3 supporting RS-485/422 functionality).

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



I/O Interfaces



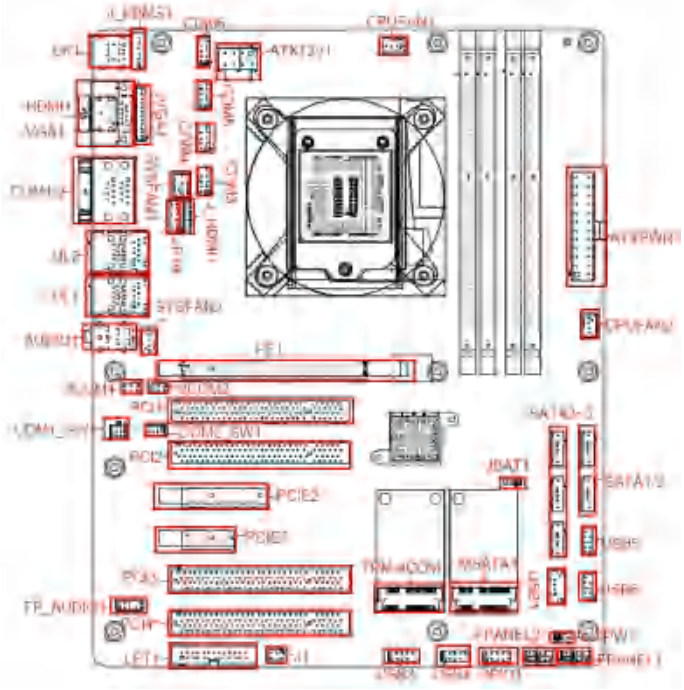
Specifications:

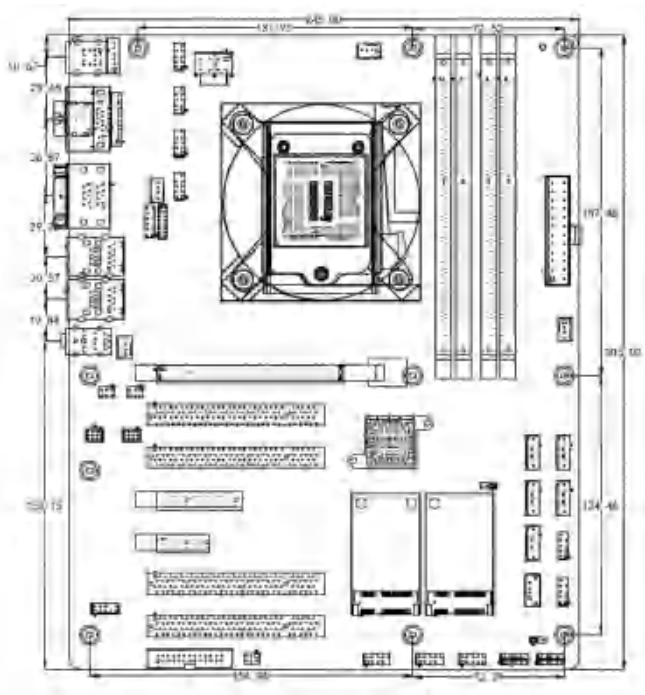
Model No.	W86DM VER:1.0
Processor	Support LGA1150 4th Intel® Celeron/Pentium/Core™ i3/i5/i7 processor
Chipset	Intel Z87 high speed chipset
RAM	4* DIMM slot ,support dual channel 1600/1333/1066MHz DDR3 memory, up to 32GB
Dispay	Intel® HD Graphics
	1* VGA; 2* HDMI1.4
	Support independent display, dual display mode, extended mode
Ethernet	2* Intel® 82583V Gigabit Ethernet Lan, support Wake_on_LAN/PXE function
Storage	5* SATA 3.0, the transfer rate is up to 6Gbps
	1* MSATA, the transfer rate is up to 6Gbps
Audio	Onboard ALC897 7.2+2 high-fidelity audio controller, support Mic,Line out,Line-in
Expansion Slot	1* PCIE x16
	1* PCIE x4
	1* PCIE x1
	4* PCI
	1* Mini-PCIE; supports the TPM-4COM daughterboard to expand by 4 serial ports
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, supports 2A current
	4* USB 3.0, supports 2A current
	2* RJ-45 Gigabit Network Interface
	1* Line out(green)、1* MIC(red)
Built-in I/O interface	4* RS232
	1*HDMI; 2*8pin
	1* JVGA, 1*12pin (same signal as external VGA)
	1* PS/2 keyboard and mouse interface, 1*6pin
	1 *LPT, 2*13pin
	1* Front audio interface, 2*5pin
	8*USB2.0; 2*5Pin one USB port among 6 shares pinout with vertical USB2.0 (alternate selection). Vertical USB2.0 is default
	1* USB2.0,
	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	2* 4pin CPU smart fan connector, 2* 4pin system smart fan connector
BIOS	64Mb Flash ROM
GPIO	Support 4-way input output GPIO function

Watchdog	Support hardware reset function (256 levels, 0~255 seconds)
OS	Windows 7/Windows 10/Linux
Power type	ATX 24Pin
Operating temperature	-10℃ ~ 60℃
Storage temperature	-20℃ ~ 70℃
Working humidity	5%-95% relative humidity, non-condensing
Size	305mm x 245mm

*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	W86DM VER:1.0	LGA1150	Z87	4*DDR3	1	2	2*82583V	14	10	COM3	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.

Shenzhen Senba Innovation Technology Co., Ltd.

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