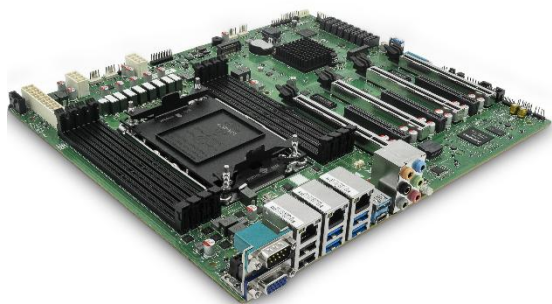# P15SWA-BMC

One-way high-performance motherboard

P15SWA is a high-performance single-channel server motherboard based on Intel® high-performance workstation W790 chipset and using Sapphire Rapids series W2400 Processor 64L and W3400 Processor 112L processors. This product is a brand new scalable server motherboard from appearance design to internal structure. It reflects the company's business philosophy of pursuing "technology/innovation/environmental protection" and its service philosophy of "continuous efforts to be customer- oriented and make the most professional products". It has greatly improved the scalability and performance of the supporting equipment. This server motherboard can also provide ODM customized services for customers with individual needs, making it the first choice for industry users to tailor refined IT platforms.
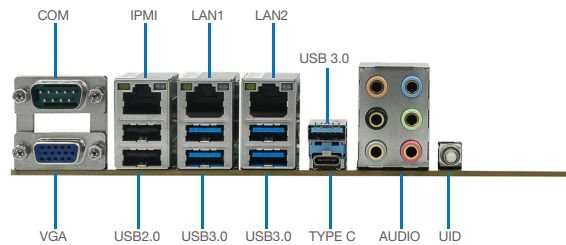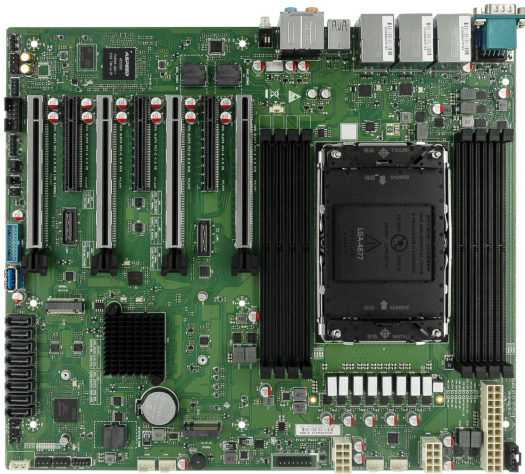

- Using the Sapphire Rapids series W2400 Processor 64L and W3400 Processor 112L processors;
- Provide 8 DDR5 RDIMM memory slots, with a maximum memory support of 2TB ECC RDIMM
- Supports 3 PCI E 5.0 x8 and 4 PCI E 5.0 x16 expansion slots
- Supports 8 hard drives and 6G SATAIII storage types, providing multiple storage solutions for enterprise applications.
- Supports IPMI, hardware monitoring, and can remotely monitor the working status of hardware such as host power, voltage, temperature, and fans;
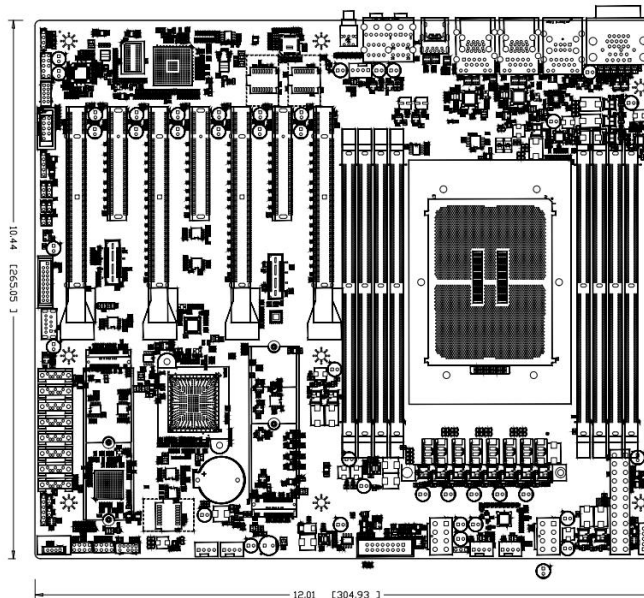
01
specifications

Processor	CPU	1 SocketE，Intel®Xeon®Sapphire Rapids Workstation Series Processors
	CHIPSET	Intel®W790
	BIOS	AMI UEFI BIOS
Display	CHIP	ASPEED AST2500 BMC
	PORT	1 x VGA
Memory	TYPE	8 SLOTS；64L Support only DIMMA1/DIMMB1/DIMME1/DIMMF1 Support 4800/4400MHz ECC DDR5 RDIMM
	Memory Capacity	W2400 Processor 64L MAX 1TB 3DS RDIMM W3400 Processor 112L MAX 2TB 3DS RDIMM
	SIZE	16G , 32G, 64GB, 128GB, 256GB
Network	Controller	Intel Enterprise-grade I226LM 2.5G network controller
	2.5G	2 x RJ-45 2.5GbE LAN，Support10/100/1000Mbps/2500Mbps
	IPMI	1 RJ45，10/100/1000Mbps Interface
Storage	SATA	8 SATA3 6Gb/s interface，Support Raid 0，1，5，10
	M.2	2M.2 2280 interface，support PCI-E 4.0 x4
Expansion slot	PCIe	3 PCIe 5.0 x16 slot（x16）1PCIe 5.0 x16slot（X8）64L support PCIE SLOT1/3/5/7
		3 PCIe 5.0 x8（x8slot）
I/O Port	Back I/O port	1 x VGA，1 x COM，1 x IPMI，2 x USB 2.0，5 x USB 3.0，2 x RJ-45 2.5GbE LAN ,1 x type-C，1 x 8 Channel audio interface，1 x UID Switch (with LED light)
	Onboard I/O	1 x 24-pin Power interface+ 8-pin+8-pin
		1 x Front COM ,1 x TPM，5 x 4pin Fan interface,1 x Chassis opening detection interface, 1x Front Audio pin
		1 x USB 3.0 pin , Up to 2 devices；1 x USB 2.0 pin , Up to 2 devices,2 x M.2 junctor , NGFF : 2280/2242,nvme SSD；1 x SMBus；1 x USB3.0 Type A
Product Dimension	Size	265.05*304.93mm
Temperature and humidity requirements	Operation Tem	0~35 ℃
	Operating humidity	8%~90% No condensation
	Storage Tem	-40~70 ℃
	Non-Operating humidity	5%~95% No condensation

02 Product view

| COM | IPMI | LAN1 | LAN2 | | | | USB 3.0 |
| VGA | USB2.0 | USB3.0 | USB3.0 | TYPE C | AUDIO | UID |

03 Dimensions

10.44 【265.05】
12.01 【304.93】

04 Product Selection

Type	production configuration
P15SWA-BMC	P15SWA-BMC V1.0, AST2500, I226-LM, ALC897