Z11PA-D8 Series

Intel® Xeon® server motherboard with 8 DIMM slots

Z11PA-D8

Z11PA-D8C

intel inside™ Xeon
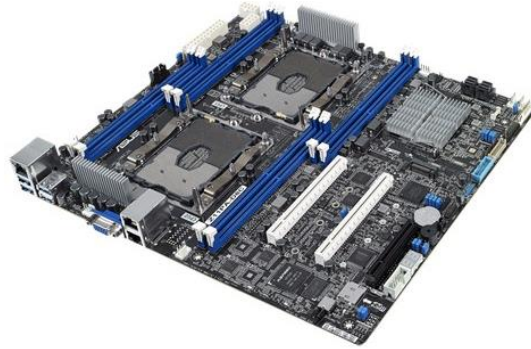
| CPU Number | 2 | Memory Number | 8 | SATA 6Gb/s ports | D8:12 D8C:8 |

Z11PA-D8 series are built on the Intel Xeon Scalable processor, which features higher per-core performance and four memory channels that provide 50% more memory bandwidth and capacity for 1.65X faster average system-level performance than previous-generation processors. The Intel Xeon Scalable processor also delivers better virtualization performance, enabling 4.2X more virtual machines (VMs) per system.

FEATURE

- Powerful performance with Intel® 1st and 2nd Gen Xeon® Scalable processor and ECC memory
- High-speed storage interface support with dual OCuLink for NVMe
- Increased performance with an M.2 (NGFF) 22110 slot
- Connect up to 16 SATA 6Gb/s storage devices

High-speed storage interface support with dual OCuLink for NVMe

Dual OCuLink for efficient connections to NVMe devices
Z11PA-D8 series features dual onboard OCuLink to provide efficient port-to-port connection with most OCuLink-supported NVMe devices, eliminating the need for PCIe transaction cards.

Connect up to 16 SATA 6Gb/s storage devices

Z11PA-D8 series come with four mini-SAS HD connectors that support up to 16 SATA ports each for high-speed 6Gb/s connectivity with external devices and cleaner cable routing.

CEB Motherboard with ATX Mounting Holes

Z11PA-D8 series support dual Intel Xeon Scalable processors in a compact, 12"x 10.5" CEB form factor. It also features ATX mounting holes, so you choose from a robust ecosystem of ATX cases instead of specially made, proprietary chassis, and benefit from up-to-date server technologies, even on a limited IT budget.

Comprehensive IT infrastructure management solution

ASMB9-iKVM and ASUS Control Center (ACC*)
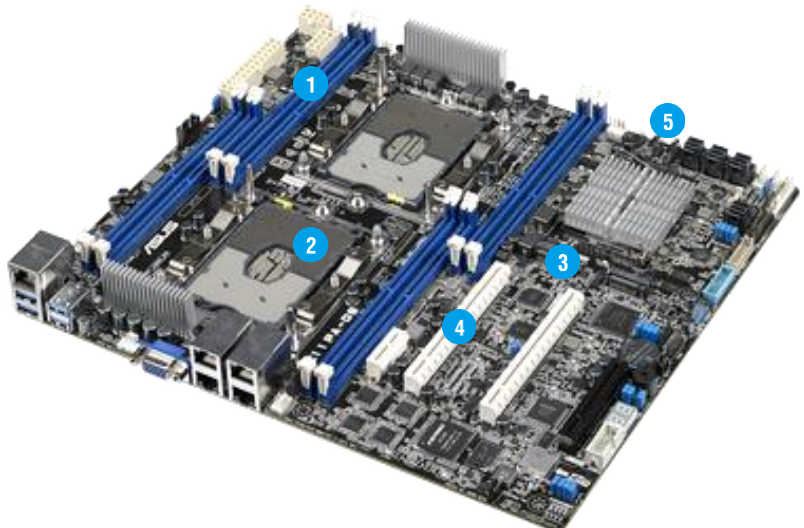
1. 8 x DIMM, DDR4-2933/2666/2400/2133, RDIMM, LRDIMM, LRDIMM 3DS, DCPMM
2. Intel® Xeon® Scalable Processor Family
3. M.2 (NGFF), 22110 /2280/2260/2242
4. 2 x PCI-E x16 (Gen3 x16 link) / 1 x PCI-E x8 (Gen3 x8 link)
5. 2 x Oculink support for NVMe

Z11PA-D8 Series

SPECIFICATION

Processor Support.		2 x Socket P (LGA 3647)
		D8: 1st and 2nd Generation Intel® Xeon® Scalable Processor Family (Up to 165W)
		D8C: 1st and 2nd Generation Intel® Xeon® Scalable Processor Family (Up to 140W)
		UPI 10.4 GT/s
Core Logic		Intel® Lewisburg PCH C621
Memory	**Total Slots**	8 (4-channel per CPU, 4 DIMM per CPU)
	Capacity	Maximum up to 4096GB
	Memory Type	2933/2666/2400
		*Refer to Asus server AVL for the latest update
	Memory Size	32GB, 16GB, 8GB, 4GB (RDIMM) / 64GB, 32GB (LRDIMM) / 128GB, 64GB (LR-DIMM 3DS) / 128GB, 256GB, 512GB (DCPMM)
		*Refer to Asus server AVL for latest update
		* Actual memory frequency differs from Intel CPU types and memory module.
		*Please check Intel official site for more detail about the memory types supported by each CPU.
Expansion Slots	**Total PCI/PCI-X/PCI-E/PIKE Slots**	Total Slot : 3
	Slot Type	Slot Location 1 : PCI-E x8
		Slot Location 3 : PCI-E x16
		Slot Location 5 : PCI-E x16
		D8: Slot Location 6 : MIO Slot for Audio card
Disk Controller	**SATA Controller**	Intel® Lewisburg PCH 621
		D8: - 12 x SATA3 6Gb/s ports (12 by 3 mini-SAS Connector)
		-4 x SATA3 6Gb/s port by 1 mini-SAS connector (Marvell 88SE9230)
		-2 x M.2 connector(SATA 6Gb/s & PCI-E Gen3 x4 link)
		D8C: -8 x SATA3 6Gb/s ports (8 by 2 mini-SAS HD Connector)
		-1 x M.2 connector(SATA 6Gb/s & PCI-E Gen3 x4 link)
		Intel® Rapid Storage Technology Enterprise(RSTe) (For Linux/Windows)
		(Support Software RAID 0, 1, 5, 10)
		Intel® VROC (for Windows only; Support software RAID 0, 1, 10 & 5)
	SAS Controller	Optional kits:
		ASUS PIKE II 3008 8-port SAS HBA card
		ASUS PIKE II 3108 8-port SAS HW RAID card
		12G SAS Support
Networking	**LAN**	**D8:** 4 x Intel® I210AT
		D8C: 2 x Intel® I210AT
		1 x Mgmt LAN
Graphic	**VGA**	Aspeed AST2500 with 64MB VRAM
On Board I/O		1 x TPM header
		1 x PSU Power Connector (24-pin SSI power connector + 8-pin SSI 12V + 8-pin SSI 12V power connector)
		1 x USB 3.0 pin header , Up to 2 Devices
		1 x USB 2.0 pin header , Up to 2 Devices
		8 x Fan Header , 4pin (3pin/4pin fan dual support)
		1 x Serial Port Header
		1 x SMBus
		1 x Chassis Intruder
		4 x Front LAN LED
		1 x VROC Key Header
		1 x Q-Code/Port 80 LED
		D8: 2 x M.2 Connector , NGFF Type : 22110/2280/2260/2242
		D8C: 1 x M.2 Connector , NGFF Type : 22110/2280/2260/2242
Back I/O Ports		4 x USB 3.0 ports
		1 x VGA port
		1 x RJ-45 Mgmt LAN port
		D8: 4 x RJ-45 GbE LAN ports
		D8C: 2 x RJ-45 GbE LAN ports
		Rear Switch/LED:
		1 x Power switch
		1 x Message LED
		1 x HDD LED
		1 x Location LED
		1 x BMC LED
		1 x P5V LED
ASUS Features		ASUS Control Center (Classic)
		ASUS Fan Speed control technology
Form Factor		CEB (12"x10.5", 305mm x 267mm)
Environment		Operation temperature: 10°C ~ 35°C
		Non operation temperature: -40°C ~ 70°C
		Non operation humidity: 20% ~ 90% (Non condensing)