Highlights

- Powerful performance with Intel® 1st and 2nd Gen Xeon® Scalable processor and ECC memory

- Increased performance or data redundancy with dual M.2 SSDs in RAID mode

- High-speed storage interface support with dual OCuLink for NVMe

- Connect up to 16 SATA 6Gb/s storage devices

- Comprehensive IT infrastructure management software – **ACC (ASUS Control Centre)** software to provide comprehensive in-band and out-of-band management features for small and mid-size businesses.

- More flexible storage capability with SD card support

- Quick initialisation guidance for faster BIOS tracking enhancement

ASUS Z11PA-D8

Intel® Xeon® server motherboard with 8 DIMM slots

Powerful performance with Intel® Xeon® 1st and 2nd Gen Xeon® Scalable and ECC memory

Z11PA-D8 is built on the Intel® Xeon® Scalable Platform to deliver higher per-core performance and four memory channels that provide 50% more memory bandwidth and capacity for 1.65X faster average system-level performance compared to previous-generation processors. The Intel® Xeon® Scalable platform also delivers better virtualization performance, enabling 4.2X more virtual machines(VMs) per system.

With 8 DIMM slots that support up to 2TB of fast DDR4-2666, 2400MHz 3DS ECC RDIMMs or LRDIMMs, Z11PA-D8 delivers industry-leading memory capability for your business.

Increased performance or data redundancy with dual M.2 SSDs in RAID mode

Dual M.2 SATA SSDs enable top performance or data redundancy in RAID mode - In performance-maximising RAID 0 configurations with dual M.2 SSDs, write speeds are up to 40% faster than a single M.2 SSD drive setup and read operations are an astonishing 84% faster. Or, for total reassurance, pair your M.2 devices into a RAID 1 configuration for instant data redundancy.

High-speed storage interface support with dual OCuLink for NVMe

Z11PA-D8 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 comes 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.

Onboard MicroSD card slot for easy maintenance

Z11PA-D8 includes a microSD card slot to provide additional storage for video and log files, as well as ISO files for OS recovery via the web-based ASMB9-iKVM user interface. This additional storage option enables users to view their files on other devices and keep their data backed up.

Specification

Processor / System Bus	2 x Socket P (LGA 3647) 1st and 2nd Gen Xeon® Scalable Processor Family (Up to 165W) *Refer to support page for more information 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 256GB RDIMM/Maximum up to 512GB LRDIMM/Maximum up to 1024GB LR-DIMM 3DS/ Maximum up to 4096GB DCPMM **Memory Type :** 2933/2666/2400 **Memory Size :** 32GB, 16GB, 8GB, 4GB RDIMM 64GB, 32GB LRDIMM 128GB, 64GB LR-DIMM 3DS 128GB, 256GB, 512GB (DCPMM) * Refer to support page for more information * 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 Slot : 3 Slot Location 1 : PCI-E x8 Slot Location 3 : PCI-E x16 Slot Location 5 : PCI-E x16 Slot Location 6 : MIO Slot for Audio card
Graphic	Aspeed AST2500 with 64MB VRAM
ASUS Features	ASUS Fan Speed control technology ASUS Control Center
Storage	**SATA Controller :** Intel® C621 12 x SATA3 6Gb/s ports (12 by 3 mini-SAS Connector) Intel® Rapid Storage Technology Enterprise(RSTe) (For Linux/Windows) (Support Software RAID 0, 1, 5, 10) 4 SATA3 6Gb/s port by 1miniSAS connector (Marvell 88SE9230) Intel® VROC (for Windows only; Support software RAID 0, 1, 10 & 5) **SAS Controller :** ASUS PIKE II 3008-8i 8-port SAS 12G RAID card (Optional) ASUS PIKE II 3108-8i 8-port SAS 12G HW RAID card (Optional)
Networking	4 x Intel® I210AT + 1 x Mgmt LAN
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 2 x M.2 Connector , NGFF Type : 22110/2280/2260/2242 1 x VROC Key Header 1 x Q-Code/Port 80 LED
Back I/O Ports	4 x USB 3.0 ports 1 x VGA port 4 x RJ-45 GbE LAN ports 1 x RJ-45 Mgmt LAN port 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
Environment	Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing)
Form Factor	CEB (12"x10.5", 305mm x 267mm)

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