

ASUS Z11PA-D8C

Intel® Xeon® server motherboard with 8 DIMM slots



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

Z11PA-D8C is 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.

With eight DIMM slots that support up to 1TB of fast DDR4-2933, 2666, 2400MHz 3DS ECC RDIMMs or LRDIMMs, Z11PA-D8C delivers industry-leading memory capability for your business

Compact CEB motherboard with ATX mounting holes to fit PC chassis, tower or 12" x 10.5" rack systems

Z11PA-D8C supports 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.

Increased performance with M.2

With a native PCI Express 3.0 bandwidth, M.2 supports up to 16Gb/s data-transfer speeds and up to 22110 NGFF for additional OS storage and PCIe 3.0 x4 bandwidth for 5.3X faster boot speeds than 6 Gb/s SATA III.

Two high-speed mini-SAS HD connections

Z11PA-D8C comes with two mini-SAS HD connectors that support up to eight SATA for 6Gb/s connectivity with external devices and cleaner cable routing. Z11PA-D8C also supports ASUS PIKE II 3000 series, the latest enterprise storage solution, featuring support for 6Gb/s SATA and 12Gb/s SAS storage and integrated RAID data protection. With an ASUS PIKE card, you can immediately improve the storage capacity and performance of Z11PA-D8C, making it a great upgrade option.



Highlights

- Powerful performance with Intel® 1st and 2nd Gen Xeon® Scalable processor and ECC memory
- Compact CEB motherboard with ATX mounting holes to fit PC chassis, tower or 12" x 10.5" rack systems
- Integrated M.2 (NGFF) 22110 provides PCIe 3.0 x4 bandwidth for faster boot speeds and OS performance
- Increased performance with an M.2 (NGFF) 22110 slot
- High-speed, high-capacity storage capability with up to eight SATA via two mini-SAS HD connections
- Complete IT infrastructure management with ASMB9 out-of-band remote management and in-band ASUS Control Center
- Quick initialization guidance for faster BIOS tracking enhancement

Specification

| | |
|-------------------------------|--|
| Processor / System Bus | 2 x Socket P (LGA 3647) 1st and 2nd Gen Xeon® Scalable Processor Family (Up to 140W) *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 |
| Graphic | Aspeed AST2500 with 64MB VRAM |
| ASUS Features | ASUS Fan Speed control technology ASUS Control Center |
| Storage | SATA Controller : Intel® C621 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 : 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 | 2 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 1 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 2 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) |

