ASUS Z11PR-D16

Scalable server motherboard with industry-leading 4TB memory capacity

Highlights

- Industry-leading 4TB memory capacity

- Dual M.2 SSD slots

- Intel® Xeon® Scalable Platform design

- Comprehensive IT infrastructure management solution - **ACC (ASUS Control Centre)** and ASMB9-iKVM

- Rack-optimized thermal performance

Industry-leading memory capability

With 16 RAM slots that support up to 4TB of fast, DDR4-2933MHz 3DS ECC RDIMMs or LRDIMMs, the Z11PR-D16 server motherboard delivers industry-leading memory capability for your business.

Dual M.2 SSD slots

Z11PR-D16 features dual M.2 SSD slots which support two transmission interfaces: SATA and PCI-E Gen3 x4. Both interfaces could be set in RAID mode. In particular, in the mode of PCI-E RAID, it supports Intel® VROC technology. The disk array system with Dual M.2 can be used as the main system disk, and also can be used as memory caching to enhance the data access speed.

Intel® Xeon® Scalable Platform design

Z11PR-D16 is built on the Intel® Xeon® Scalable Platform to deliver higher per-core performance and six 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.
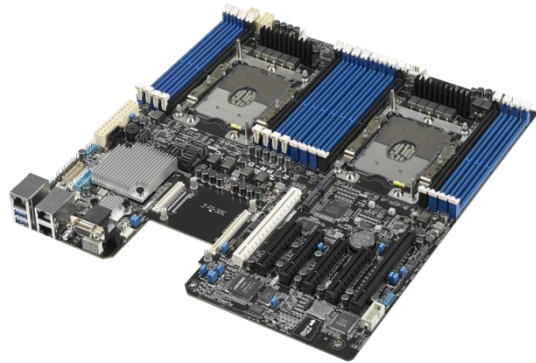
Rack-optimized thermal performance

With the CPU and memory configured in a front parallel design that enables efficient airflow for excellent thermal performance, Z11PR-D16 is optimized for rack placement.

Flexibility to grow with your business

Z11PR-D16 comes with a wide range of ports to provide a flexible and cost-effective computing environment with the ability to grow together with your business. Z11PR-D16 features:

- 2 x mini SAS HD connectors
- 3 x 7-pin SATA ports
- 11 x SATA 6Gb/s storage device support (maximum)
- 1 x VGA
- 2 x USB 3.0
- 2 x 1GbE LAN
- 1 x Mgmt LAN
- 1 x Q-Code/port 80 LED

Specification

Processor / System Bus	2 x Socket P (LGA 3647) 1st Gen Intel® Xeon® Processor Scalable Family 2nd Gen Intel® Xeon® Processor Scalable Family (150W) *Refer to support page for more information UPI (10.4 GT/s)
Core Logic	Intel® Lewisburg PCH C621
Memory	**Total Slots :** 16 (6-channel per CPU, 8 DIMM per CPU) **Capacity :** Maximum up to 512GB RDIMM/Maximum up to 2048GB RDIMM 3DS/Maximum up to 2048GB LRDIMM/Maximum up to 4096GB LR-DIMM 3DS **Memory Type :** DDR4 2933 (1 DIMM per Channel) DDR4 2666/2400/2133 RDIMM/LRDIMM/LRDIMM 3DS (2DIMM per Channel) *Refer to Asus server AVL for the latest update *if 2DPC, 2933MHz speed will drop to 2666MHz **Memory Size :** 4GB,8GB, 12GB, 32GB (RDIMM) 64GB,128GB(RDIMM 3DS) 32GB, 64GB,128GB(LRDIMM) 64GB,128GB ,256GB(LRDIMM 3DS) *Refer to Asus server AVL for latest update
Expansion Slots	Slot Location 1 : PCI-E x16 (Gen3 X16 Link) Slot Location 2 : PCI-E x8 (Gen3 X8 Link) Slot Location 3 : PCI-E x8 (Gen3 X8 Link) Slot Location 4 : PCI-E x8 (Gen3 X8 Link) Slot Location 5 : PCI-E x8 (Gen3 X8 Link) Slot Location 6 : PCI-E x16 (Gen3 X16 Link) Additional Slot 1 : OCP 2.0 module support (X16 Gen3 Link)
Graphic	Aspeed AST2500 with 64MB VRAM
ASUS Features	ASUS Fan Speed control technology, ASUS Control Center, Rack Optimized (Dedicated for Rack)
Storage	**SATA Controller :** Intel® C621 11 x SATA3 6Gb/s ports (8 by 2 mini-SAS Connector) 2 x M.2 connector (2280/2260/2242) (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) (HW Optional) **Optional kits Controller :** ASUS PIKE II 3008-8i 8-port SAS 12G RAID card ASUS PIKE II 3108-8i 8-port SAS 12G HW RAID card
Networking	1 x Dual Port Intel I350-AM2 Gigabit LAN controller + 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 2 x USB 2.0 pin header , Up to 4 Devices 9 x Fan Header , 4pin 1 x SMBus 2 x Chassis Intruder 2 x Front LAN LED 1 x Serial Port Header 1 x VROC Key Header 1 x Micro SD Card Slot 2 x M.2 Connector , NGFF Type : 2280/2260/2242
Back I/O Ports	2 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 Q-Code/Port 80 LED 1 x Message LED 1 x HDD LED 1 x Location LED
Environment	Operation temperature: 10℃ ~ 35℃ Non operation temperature: -40℃ ~ 70℃ Non operation humidity: 20% ~ 90% (Non condensing)
Form Factor	EEB (12"x13", 305mm x 330mm)

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