



Rack-Optimized solution with excellent thermal efficiency

The ASUS Z9PR-D12 serverboard is able to provide an ideal foundation for reliable performance and upgrades in the future. Through ASUS' innovative design, the Z9PR-D12 supports AHCI/ PIKE storage and dual Intel LAN ports, and provides high I/O expandability. Moreover, the ASMB6 let users obtain high manageability. It is ideal for entry socket 2011 applications, IP data center, social network data center, web hosting, rack-optimized server and other general purpose applications.

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Lean & Cool Design Romley Socket 2011 Serverboard

Lean and Cool Design for Rack-optimized Solutions

With the CPU and memory in front parallel design, the Z9PR-D12 provides excellent thermal efficiency by smooth air ventilation, making it rack optimized and suitable for data center.

7 Expansion Slots Support

The Z9PR-D12 provides high expandability with 7 expansion slots, including 6 PCI-E G3 x8 slots (x8 link) and 1 x PCI-E G3 x16 slot (x16 link, switch to x8 link automatically if the slot 5 is occupied), meeting the demand of future expansion. In addition, there is also a propriety slot for ASUS PIKE SAS RAID Upgrade kit.

Cutting-edge Architecture

The Z9PR-D12 supports new generation Intel Xeon processor E5-2600 product family. With 12 DIMM sockets on board, the serverboard supports DDR3 1333/1600 RDIMM/UDIMM up to 384GB memory capacity, providing high computing capability. Additionally, there are more PCI-E lanes with PCI-E gen 3 support, which is suitable for the systems that require high I/O connectivity and bandwidth and supports more PCI-E devices.

Complete Storage Solution Supported

The Z9PR-D12 is built with SATA solutions from C602 PCH, which supports the latest SATA 6G technology. While the ASUS optional PIKE providing slim-sized and flexible storage options, direct SAS RAID upgrades can be achieved directly via a unique slot—without sacrificing expansion capability. The ASUS PIKE further provides customers with multiple I/O solutions and RAID functions; and is cost effective for customers.

Onboard ASMB6 for Easy Troubleshooting

The ASMB6 enables dashboard and monitor system health, remote power on /off and control, virtual media over LAN and network bonding support. In addition, the ASMB6 function is based on BIOS-level access; thus even if the server OS is down, the KVM module is still able to provide around-the-clock remote monitor and diagnosis through a user-friendly GUI (Web-based Graphical User Interface).

Processor / System Bus

2 x Socket 2011
Intel® Xeon® processor E5-2600 product family
Intel® Xeon® processor E5-2600 v2 product family
QPI 6.4 / 7.2 / 8.0 GT/s

Core Logic

Intel® C602-A PCH

Memory

Total Slots : 12 (4-channel per CPU, 8 DIMM for CPU1, 4 DIMM for CPU2)
Capacity : Maximum up to 384GB RDIMM
Memory Type :
DDR3 1866/1600/1333/1066 RDIMM*

DDR3 1866/1600/1333/1066 UDIMM*

DDR3 1866/1600/1333/1066 LRDIMM*

Memory Size :

32GB, 16GB, 8GB, 4GB, 2GB RDIMM

8GB, 4GB, 2GB UDIMM

32GB, 16GB, 8GB LRDIMM

Expansion Slots

Total Slot : 7

Slot Location 1 : PCI-E x8 (Gen3 X8 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), Auto switch to x8 link if slot 5 is occupied

Slot Location 7 : PCI-E x8 (Gen3 X8 Link)

Additional Slot 1 : PIKE Slot for Storage expansion

Follow SSI Location#

Form Factor

EEB (12"x13")

ASUS Features

7 Expansion Slots Support

Rack Optimized (Dedicated for Rack)

ASWM Enterprise

Storage

SATA Controller :

Intel® C602-A AHCI

4 x SATA2 3Gb/s ports

2 x SATA3 6Gb/s ports

Intel® Rapid Storage Technology Enterprise(RSTe) (For Windows Only)

(Support Software RAID 0, 1, 5, 10)

LSI® MegaRAID (For Linux/Windows)

(Support Software RAID 0, 1, 10)

SATA Controller :

Intel® C602-A SCU

4 x SATA2 3Gb/s ports

Intel® Rapid Storage Technology Enterprise(RSTe) (For Windows Only)

(Support Software RAID 0, 1, 5, 10)

SAS Controller :

ASUS PIKE 2008 8-port SAS2 6G RAID card (Optional)

ASUS PIKE 2008/IMR 8-port SAS2 6G RAID card(Optional)

ASUS PIKE 2108-32PD 8-port SAS2 6G RAID card (Optional)

ASUS PIKE 2208 8-port SAS 6G HW RAID card (Optional)

ASUS PIKE 2308 8-port SAS 6G RAID card (Optional)
ASUS PIKE 9230 4-port SATA 6G RAID card (Optional)

Networking

2 x Intel® 82574L + 1 x Mgmt LAN

Graphic

Aspeed AST2300 with 16MB 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 Management Connector , Onboard socket for management card
2 x USB pin header , Up to 4 Devices
1 x Internal A Type USB Port
8 x Fan Header , 4pin
1 x Chassis Intruder
1 x Serial Port Header
1 x SMBus

Back I/O Ports

2 x External USB Port
1 x VGA Port
2 * GbE LAN + 1 * Mgmt LAN
1 x PS/2, 1 KB/mouse

Regulatory Compliance

CE, FCC(Class B)

Management Solution

ASWM Enterprise
ASMB6-iKVM for KVM-over-Internet

Accessories

Gift Box Pack :

1 x User's Guide
1 x ASUS Mainboard Support CD
1 x I/O Shield
1 x ASWM Enterprise SDVD
10 x SATA Data Cables
1 x ASMB6-iKVM Support CD
1 x ASMB6-iKVM User Guide
1 x USB to SATA DOM Power cable

Bulk Pack :

1 x User's Guide

1 x ASUS Mainboard Support CD
1 x I/O Shield
1 x ASWM Enterprise SDVD
1 x ASMB6-iKVM Support CD
1 x ASMB6-iKVM User Guide

Product SKUs

Standard Gift Box Pack with ASMB6-ikvm
Standard Bulk Pack with ASMB6-ikvm

Monitoring

CPU Temperature
Fan RPM

Note

* DDR3 1866 can only be supported with Intel® Xeon® processor E5-2600 v2 product family, refer to www.asus.com for latest memory AVL update

** Specifications are subject to change without notice.
