



Optimized & Certified for Professionals

The P9D WS motherboard with the new Intel® C226 chipset and support for Intel® Xeon® E3-1200 v3 and 4th generation Core™ processors. Fully ISV (Independent Software Vendor) certified, the P9D WS has been designed for workstation and high-end desktop usage, with wider memory compatibility. It features ASUS Dr. Power utility, which monitors power supply health to prevent sudden shutdowns, and extensive I/O including diverse display ports.

[Add to comparison list](#)

Workstation Essentials for Your Business

The ASUS Workstation Series is the ideal foundation for a powerful PC. It delivers awesome power, dependable performance and unmatched multiple I/O scalability for the most demanding tasks and future upgrades. The ASUS Workstation Series intelligently reduces operating noise and dissipates heat through advanced and environmentally friendly methods to accommodate user needs. ASUS Workstation Series motherboards also bring you ultimate reliability and quality through our 24x24 initiative, which means 24-hour non-stop operation and a 24-month life cycle supply guarantee so you don't change computers so often. Instead, let the ASUS Workstation Series improve the quality of your work and life.



ASUS Workstation Exclusive Features

Ultimate Workstation Design

The P9D WS features Intel's Socket 1150 with the C226 chipset specially-designed for workstations. ISV application testing and certification with integrated graphics cores on E3-12x5 v3 processors are perfect for entry-level workstations and software such as Autodesk® AutoCAD 2013 and Inventor 2012. The P9D WS is your best choice for a DIY workstation build that rivals top-tier pre-built workstations.



ASUS Dr. Power

Detect, diagnose, and monitor power supply health LED messages clearly indicate any relevant power issues in the event your system fails to boot. Additionally, power supply health auto-detection helps prevent sudden system shutdown and provides warnings should power delivery be insufficient.



Multiple displays

Three Times the work efficiency

Without extra VGA card needed, the P9D WS gives users the ability to multitask on up to the independent displays through DisplayPort, HDMI and DVI-I connectors.

3 Independent Displays



Built-in Dual Intel Server-Class Gigabit LAN

The latest server class built-in dual Intel® I210 Gigabit LAN

For more reliable networking, the P9D WS features the latest server class built-in dual Intel® Gigabit LAN. This leads to lower CPU utilization and temperature, achieving outstanding performance as well as better support for diverse operating systems.



Diverse CPU and Memory Types

Both Intel® E3-1200/12x5 v3 series server/workstation processors and 4th generation Core™ i3 desktop processors are supported. Users can also choose DDR3 unbuffered non-ECC memory, widely available on the

Server-level Compatibility with RAID card and Lan card

The P9D WS provides complete compatibility with RAID and LAN cards. Users enjoy a wider selection of devices and higher reliability. As a workstation motherboard that puts an emphasis on system integration, offering the benefit of

market, or more stable and reliable DDR3 unbuffered ECC memory. The P9D WS provides flexible CPU and memory options to meet diverse needs.



greater confidence and convenience.



ASUS Exclusive Features

AI Suite III

One-stop access to innovative ASUS features

ASUS AI Suite III offers a brand new user experience through a clearer and more attractive interface with support for larger monitors. It consolidates all exclusive ASUS features into one simple-to-use package, allowing you to supervise overclocking, energy consumption, fan speeds, voltages and more. This all-in-one app offers diverse and easy to use functionality, with no need to switch back and forth between different utilities.



USB 3.0 Boost

Faster USB 3.0 UASP in Windows 8

ASUS USB 3.0 Boost technology supports UASP (USB Attached SCSI Protocol) in Windows 8. USB transmission speeds increase by up to 170%, adding to already fast USB 3.0 performance. USB 3.0 Boost automatically accelerates data rates for compatible USB 3.0 peripherals automatically and without any user-defined settings.



USB BIOS Flashback

Simple plug and press hardware-based BIOS updates

Hardware-level USB BIOS Flashback allows users to update to new UEFI BIOS versions even without a CPU or DRAM installed on the motherboard. Just plug in a USB flash drive containing the BIOS file, and press the BIOS Flashback button for 3 seconds with the power supply connected.



UEFI BIOS

Full-scale performance tuning with easy BIOS settings

Media-renowned UEFI BIOS from ASUS provides the smoothest mouse-controlled graphical BIOS, and now features a new look with more intuitive functions to perfect your BIOS experience.



Network iControl

Real-time network bandwidth management

With a single-click, important applications get their data and network bandwidth prioritized over other programs. You can prioritize favorite applications easily by configuring profiles through the intuitive user interface. Within profiles, programs can be re-scheduled to run in a specific time to avoid network congestion and long waits on downloads. This is the most intuitive network bandwidth control ever.



Fan Xpert2

Optimizes the Speed of All Fans for the Ultimate Cool and Quiet

Hardware-level ASUS Fan Xpert 2 provides the most customizable settings for an even cooler and quieter computing environment. Upgraded with Fan Auto Tuning mode, it enables tailored fan speed settings for each CPU and chassis fan with exclusive automatic fan speed detection, which scans through each fan to run at specific settings based on different criteria, achieving the best balance of cooling performance and low noise. Fan Xpert 2 also includes an RPM Fixed Mode for users who wish to reduce noise levels to near 0dB with highly specific fan speed control. It reacts

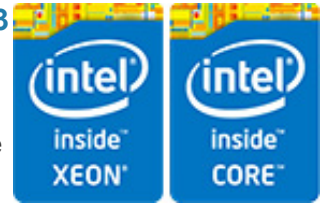


to system loads for greater control.

CPU, Chipset and Graphics features

Socket LGA1150 for Intel® 4th Generation Core i3 and Xeon E3-1200/12x5 v3 Processors

The latest Intel® 4th generation Core™ i3 and Xeon E3-1200/12x5 v3 series processors in the LGA1150 package are supported, with memory and PCI Express controllers integrated to enable 2-channel (4 DIMM) DDR3 memory and 16 PCI Express 3.0 lanes. This provides great graphics performance. Intel® 4th generation Core™ i3 and Xeon® E3-1200/12x5 v3 series processors are among the most powerful and energy efficient CPUs in the world.



C226

The Intel® C226 Express is the latest single-chipset design, supporting the new socket LGA1150 Intel® Core™ i3 4th generation processors and Intel® Xeon® E3-1200 v3 server processors. It improves performance by utilizing serial point-to-point links, allowing for increased bandwidth and stability. Additionally, the C226 comes with six SATA 6Gb/s ports for faster data retrieval, doubling the bandwidth of current bus systems. It also supports Intel's iGPU integrated graphics.



Intel® Smart Response Technology

SSD Speed with HDD Capacity

Intel® Smart Response Technology boosts overall system performance. It uses an installed fast SSD (min 18.6GB available capacity required) as a cache for frequently accessed data. Key benefits include reduced load and wait times, and lower power consumption through the elimination of unnecessary hard drive spin. This technology combines SSD performance with hard drive capacity, operating up to 6X faster than a hard drive-only system.



Intel® Smart Connect Technology

Auto Application Refresh with Reduced Wait Times

Your computer can receive web updates with fresh content for selected applications, even when the system is in sleep mode. This means less time waiting for applications to update and sync with the cloud, leading to a more efficient computing experience.

Intel® Rapid Start Technology

Instant Wake Up from Sleep Mode

Allows your computer to quickly resume from a low-power hibernate state in seconds. Saving system memory to the designated SSD, it provides your

computer faster wake-up response time, while still keeping energy use low.



Quad-GPU CrossFireX!

Flexible multi-GPU - your weapon of choice!

The P9D WS brings you AMD quad CrossFireX graphics, featuring the powerful Intel C226 platform to optimize PCI Express allocation in multiple GPU configurations. Expect a brand new gaming style like you've never experienced before!



CPU

Intel® Socket 1150 for 4th Generation Core™ i7/Core™ i5/Core™ i3/Xeon® E3-1200/12x5 v3 series Processors

Supports Intel® 22 nm CPU

* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.

* Refer to www.asus.com for CPU support list

Chipset

Intel® C226

Memory

4 x DIMM, Max. 32GB, DDR3 1600/1333 MHz ECC, Non-ECC, Un-buffered Memory

Dual Channel Memory Architecture

* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).

Graphic

Integrated Graphics Processor *1

Multi-VGA output support : HDMI/DVI/DisplayPort ports

- Supports HDMI with max. resolution 4000 x 2000 @ 24 Hz

- Supports DVI with max. resolution 1920 x 1200 @ 60 Hz

- Supports DisplayPort with max. resolution 3200 x 2000 @ 60 Hz

Maximum shared memory of 1024 MB

Supports Intel® HD Graphics, InTru™ 3D, Quick Sync Video, Clear Video HD Technology, Insider™

Multi-GPU Support

Supports AMD 4-Way CrossFireX Technology

Expansion Slots

3 x PCIe 3.0/2.0 x16 (x16 or dual x8 or x8/x4/x4)
1 x PCIe 2.0 x16 (x4 mode)
1 x PCIe 2.0 x1 (x1 mode)
2 x PCI

Storage

Intel® C226 Chipset :

6 x SATA 6Gb/s port(s), gray

Support Raid 0, 1, 5, 10

Intel® Rapid Storage Technology supports

LAN

Intel® I210

Audio

Realtek® ALC892 8-Channel High Definition Audio CODEC

- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking

IEEE 1394

1 x IEEE 1394a port(s)

(1 at mid-board)

USB Ports

Built-in Controller :

4 x USB 3.0/2.0 port(s) (2 at back panel, , 2 at mid-board)

Built-in Controller :

9 x USB 2.0/1.1 port(s) (4 at back panel, , 5 at mid-board)

Workstation Feature

4 x PCIe x16 slot(s)

G.P. Diagnosis Card bundled

Quick Gate: 1 x vertical USB 2.0 on board

ASUS Dr. Power

Special Features

ASUS EPU :

- EPU

- EPU switch

ASUS Power Design :

- 4 +2 Phase Power Design

ASUS Exclusive Features :

- MemOK!

- AI Suite 3

- Anti-Surge

- ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface

- Network iControl

- USB 3.0 Boost

ASUS Quiet Thermal Solution :

- Stylish Fanless Design Heat-sink solution

- ASUS Fan Xpert 2

ASUS EZ DIY :

- ASUS CrashFree BIOS 3

- ASUS EZ Flash

ASUS Q-Design :

- ASUS Q-Connector

Back I/O Ports

1 x PS/2 keyboard/mouse combo port(s)

1 x DVI-I

1 x DisplayPort

1 x HDMI

2 x LAN (RJ45) port(s)

2 x USB 3.0

4 x USB 2.0

1 x Optical S/PDIF out

6 x Audio jack(s)

1 x USB BIOS Flashback Button(s)

Internal I/O Ports

1 x AAFP connector

1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s) (19-pin)

2 x USB 2.0 connector(s) support(s) additional 2 USB 2.0 port(s)

1 x USB 2.0/1.1 vertical port(s)

1 x TPM header

1 x LPT1 header

1 x COM port(s) connector(s)

6 x SATA 6Gb/s connector(s)

1 x IEEE 1394a connector(s)

1 x CPU fan with PWM control

4 x Chassis Fan connector(s)

1 x S/PDIF out header(s)

1 x 24-pin ATX Power connector

1 x 8-pin ATX 12V Power connector(s)

1 x Front panel connector(s) (1 x 20 -pin)

1 x Mem OK! button(s)

Accessories

User's manual

1 x G.P. Diagnosis card *2

I/O Shield

1 x COM port cable(s)

6 x SATA 6Gb/s cable(s)
1 x Q-connector(s) (2 in 1)
1 x 2-port USB2.0 + 1394 bracket(s)

BIOS

64 Mb Flash ROM, EFI AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.6, ACPI 2.0a, Multi-language BIOS, ASUS EZ Flash Utility, ASUS CrashFree BIOS 3

Manageability

WfM 2.0, DMI 2.0, WOL by PME, WOR by PME, PXE

Operating System

Windows® 8 32/64-bit
Windows® 7 32/64-bit

Note

*1: Only using processors which feature Intel HD Graphics, Intel integrated graphics could enable.

*2: If installing G.P Diagnosis card on TPM port, the PCIE card which installed on PCIEX16_4 should be less than 13cm*0.5cm (length*depth). For more detail, please go to this link

http://www.asus.com/Motherboards/P9D_WS/#support_Knowledge_E1F9E779-8883-4693-BB3D-82122294A894
