Z97 Pro4

Intel® Z97 Chipset





Product Brief

- ASRock Super Alloy
  Premium Alloy Choke (Reduces 70% core loss compared to iron powder choke)
  NexFET™ MOSFET
  12K Platinum Caps (100% Japan made high quality conductive polymer capacitors)
  Sapphire Black PCB
- Supports 5th Generation, New 4th and 4th Generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® Processors (Socket 1150)
- Digi Power
- Supports Dual Channel DDR3 3100+(OC)
- 1 PCIe 3.0 x16, 1 PCIe 2.0 x16, 2 PCIe 2.0 x1, 2 PCI
- Supports AMD Quad CrossFireX™ and CrossFireX™
- Graphics Output Options: D-Sub, DVI-D, HDMI
- Supports Triple Monitor
- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec), Nichicon Fine Gold Series Audio Caps
- Intel® Gigabit LAN
- 1 SATA Express, 6 SATA3, 1 M.2 (Gen2 x2/SATA), 6 USB 3.0 (2 Front, 4 Rear), 8 USB 2.0 (4 Front, 4 Rear)
- 1 COM Port Header, 1 Thunderbolt AIC Connector
- Supports ASRock Full Spike Protection, ASRock Cloud, APP Shop, A-Tuning, Full HD UEFI

Detail Specification

Platform	- ATX Form Factor - High Density Glass Fabric PCB
Unique Feature	ASRock Super Alloy - Premium Alloy Choke (Reduces 70% core loss compared to iron powder choke) - NexFET™ MOSFET - 12K Platinum Caps (100% Japan made high quality conductive polymer capacitors) - Sapphire Black PCB ASRock Full Spike Protection ASRock Cloud ASRock APP Shop
CPU	- Supports 5th Generation, New 4th and 4th Generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® Processors (Socket 1150) - Digi Power design - 6 Power Phase design - Supports Intel® Turbo Boost 2.0 Technology - Supports Intel® K-Series unlocked CPUs - Supports ASRock BCLK Full-range Overclocking
Chipset	- Intel® Z97
Memory	- Dual Channel DDR3 Memory Technology - 4 x DDR3 DIMM Slots - Supports DDR3 3100+(OC)/2933(OC)/2800(OC)/2400(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, un-buffered memory - Max. capacity of system memory: 32GB - Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2
Expansion Slot	- 1 x PCI Express 3.0 x16 Slot (PCIE1: x16 mode) - 1 x PCI Express 2.0 x16 Slot (PCIE3: x4 mode) * If PCIE2 or PCIE4 slot is occupied, PCIE3 slot will run at x2 mode. - 2 x PCI Express 2.0 x1 Slots - 2 x PCI Slots - Supports AMD Quad CrossFireX™ and CrossFireX™
Graphics	* Intel® HD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated. - Supports Intel® HD Graphics Built-in Visuals : Intel® Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Insider™, Intel® HD Graphics 4400/4600 - Pixel Shader 5.0, DirectX 11.1 - Max. shared memory 1792MB - Three graphics output options: D-Sub, DVI-D and HDMI - Supports Triple Monitor - Supports HDMI with max. resolution up to 1920x1200 @ 60Hz - Supports DVI-D with max. resolution up to 1920x1200 @ 60Hz - Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz - Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI Port (Compliant HDMI monitor is required) - Supports HDCP with DVI-D and HDMI Ports - Supports Full HD 1080p Blu-ray (BD) playback with DVI-D and HDMI Ports
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec) - Premium Blu-ray Audio support - Supports Surge Protection (ASRock Full Spike Protection) - Nichicon Fine Gold Series Audio Caps
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Intel® I218V - Supports Intel® Remote Wake Technology - Supports Wake-On-LAN - Supports Lightning/ESD Protection (ASRock Full Spike Protection) - Supports Energy Efficient Ethernet 802.3az - Supports PXE
Rear Panel I/O	- 1 x PS/2 Mouse/Keyboard Port - 1 x D-Sub Port - 1 x DVI-D Port - 1 x HDMI Port - 1 x Optical SPDIF Out Port - 4 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 4 x USB 3.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jacks: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone
Storage	- 6 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1, RAID 5, RAID 10, Intel Rapid Storage Technology 13 and Intel Smart Response Technology), NCQ, AHCI and Hot Plug - 1 x SATA Express Connector (shared with SATA3_4, SATA3_5 and M.2 Socket) * Support to be announced - 1 x M.2_SSD (NGFF) Socket 3, supports M.2 SATA3 6.0 Gb/s module and M.2 PCI Express module up to Gen2 x2 (10 Gb/s)
Connector	- 1 x COM Port Header - 1 x Chassis Intrusion Header - 1 x TPM Header - 1 x Power LED Header - 2 x CPU Fan Connectors (1 x 4-pin, 1 x 3-pin) - 2 x Chassis Fan Connectors (1 x 4-pin, 1 x 3-pin) - 1 x Power Fan Connector (3-pin) - 1 x 24 pin ATX Power Connector - 1 x 8 pin 12V Power Connector - 1 x PCIe Power Connector - 1 x Front Panel Audio Connector - 1 x Thunderbolt AIC Connector - 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x USB 3.0 Header (Supports 2 USB 3.0 ports) (Supports ESD Protection (ASRock Full Spike Protection))
BIOS Feature	- 64Mb AMI UEFI Legal BIOS with multilingual GUI support - ACPI 1.1 Compliant wake up events - SMBIOS 2.3.1 support - CPU, DRAM, PCH 1.05V, PCH 1.5V Voltage Multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar, Start8 (30 days trial), Orbweb.ME Professional (Win 8.1)
Software and UEFI	Software - ASRock A-Tuning - ASRock Disk Health Report - ASRock USB Key - ASRock APP Charger - ASRock XFast LAN - ASRock XFast RAM - ASRock Restart to UEFI UEFI - ASRock Full HD UEFI - ASRock My Favorites in UEFI - ASRock UEFI Guide - ASRock Instant Flash - ASRock Internet Flash - ASRock Crashless BIOS - ASRock OMG (Online Management Guard) - ASRock UEFI System Browser - ASRock UEFI Tech Service - ASRock Dehumidifier - ASRock Easy RAID Installer - ASRock Easy Driver Installer
Hardware Monitor	- CPU/Chassis temperature sensing - CPU/Chassis/Power Fan Tachometer - CPU/Chassis Quiet Fan (Auto adjust chassis fan speed by CPU temperature) - CPU/Chassis Fan multi-speed control - CASE OPEN detection - Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore
OS	- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit
Certifications	- FCC, CE, WHQL - ErP/EuP ready (ErP/EuP ready power supply is required)
Accessories	- Quick Installation Guide, Support CD, I/O Shield - 2 x SATA Data Cables - 1 x Screw for M.2_SSD (NGFF) Socket 3

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than the original product specification is not guaranteed.

Z97 Pro4

Intel® Z97 Chipset

ASRock

Super Alloy Motherboard

Stable and Reliable

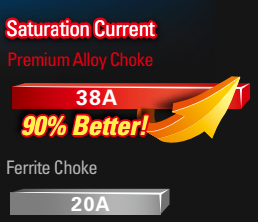
NexFET MOSFET for Memory Power

The next generation NexFET MOSFETs provide lower Rds(on) 2.9 mΩ, delivering higher efficiency and lower temperature.



Premium Alloy Choke

The new generation alloy chokes effectively increase up to 90% saturation current and feature a highly magnetic and heat resistant design, making the motherboard more efficient, stable and reliable.



Sapphire Black PCB

Pure black PCB appearance. The new Sapphire Black PCB represents rock-solid quality and gives the motherboard a more mysterious touch.

12K Platinum Caps

Supreme 12K platinum caps! The industry's longest lifespan - 12,000 hours.*

* Tested under industry standard 105 degree Celsius ambient temperature.

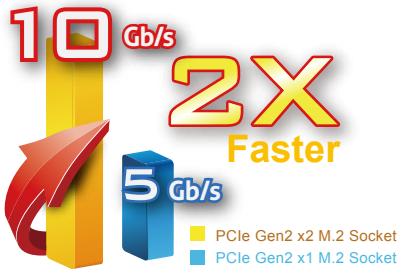


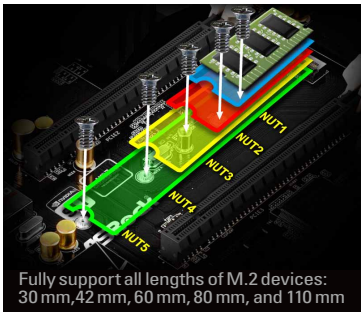


M.2 Socket (PCIe Gen2 x2/SATA)

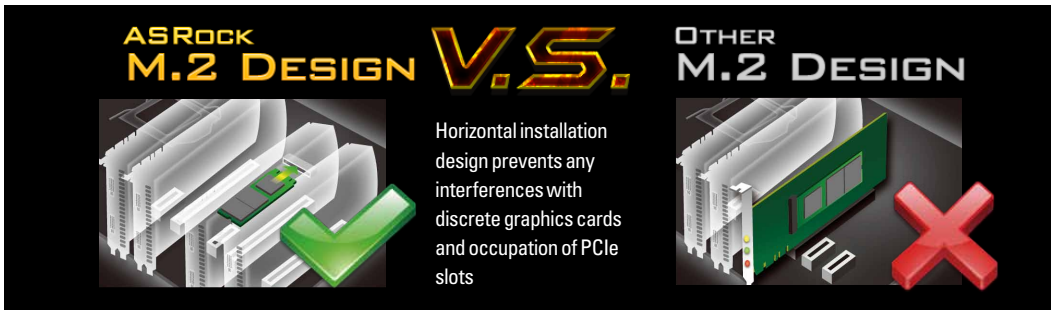
M.2 SOCKET

The onboard M.2 socket is a new interface for connecting Next Generation Form Factor (NGFF) solid state drives or other devices. ASRock supports M.2 SATA3 6.0 Gb/s modules and M.2 PCI Express modules up to Gen2 x2 10 Gb/s, which is 2X faster compared to other M.2 Gen2 x1 solutions that are limited to 5 Gb/s.





Fully support all lengths of M.2 devices: 30 mm,42 mm, 60 mm, 80 mm, and 110 mm

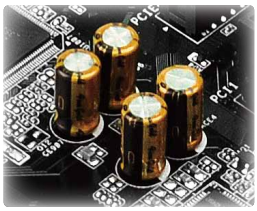


Horizontal installation design prevents any interferences with discrete graphics cards and occupation of PCIe slots



Nichicon Fine Gold Audio Caps

ASRock applied Nichicon Fine Gold Series audio capacitors that every audiophile has been longing for on a PC! Compared with traditional solid caps, the leakage current of Nichicon audio caps is merely 10uA. This is the key to reduce noise level significantly and satisfy even the pickiest audiophiles.





The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than the original product specification is not guaranteed.



ASRock Cloud

ASRock Cloud* technology makes your mobile devices connect to your PC seamlessly! We offer a one-year subscription to Orbweb.ME Professional version, a personal cloud service which is $49.99 per year. It allows you to get connected with your PC's files, music, photos, and video clips remotely with tablets anytime, anywhere. Plus an additional one-month upgrade to Orbweb.ME Ultimate package with Remote Desktop function.





* OrbWeb ME is provided by a third party. Restriction may apply and the offer is subject to change, termination or discontinuation by the third party without prior notice. Please visit the website for further details: http://www.asrock.com/feature/cloud/index.html



ASRock APP Shop

We provide various apps and support software for users to download. You can easily optimize your system and keep your motherboard up to date with ASRock APP Shop.





Digi Power

By adopting digital Pulse-width modulation (PWM), the ASRock motherboard can provide CPU Vcore voltage more efficiently and smoothly.



SATA Express Connector

The SATA Express* interface provides PCIe Gen2 x2 (10Gb/s) data transfer speed. This motherboard offers the latest SATA Express connector to enjoy the ultimate performance.

* Support to be announced.



Intel LAN

Intel® Gigabit LAN provides better performance, lowers CPU utilization and enhances the stability of internet connections.



Triple Monitor

This motherboard supports Triple Monitor. You may choose up to three display interfaces to connect monitors and use them simultaneously.



A-Tuning

A-Tuning is ASRock's multi purpose software suite with a new interface, more new features and improved utilities, including XFast RAM and a whole lot more.

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than the original product specification is not guaranteed.