Z68 Extreme7 Gen3

Intel® Z68 Chipset









Detail Specification



Platform	- ATX Form Factor: 12.0-in x 9.6-in, 30.5 cm x 24.4 cm - Premium Gold Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)		
CPU	- Supports 2 nd Generation Intel [®] Core [™] 17 / 15 / 13 in LGA1155 Package - Advanced V8 + 4 Power Phase Design - Supports Intel [®] Turbo Boost 2.0 Technology - Supports Intel [®] K-Series unlocked CPU - Supports Intel [®] K-Series unlocked CPU - Supports Intel [®] Threading Technology		
Chipset	- Intel® Z68		
Memory	- Dual Channel DDR3 memory technology - 4x DDR3 DIMM slots - Supports DDR3 2133(0C)/1866(0C)/1400/1333/1066/800 non-ECC, un-buffered memory - Max. capacity of system memory: 32GB - Supports Intel [®] Extreme Memory Profile (XMP)		
Expansion Slot	- 5 x PCI Express x16 slots (single at PCIE 3.0* x16 (PCIE2) mode, dual at PCIE 2.0 x16 (PCIE1) / PCIE 2.0 x16 (PCIE4) mode, or tripple at PCIE 2.0 x16 (PCIE1) / PCIE 2.0 x8 (PCIE4) PCIE5 2.0 x16 (PCIE5) PCIE5 2.0 x16 (PCIE4) PCIE5 2.0 x16 (PCIE5) PCIE5 2.0 x16 (PCIE5) PCIE5 2.0 x16 (P		

Graphics

(PCIE4) I PCIE 2.0 x8 (PCIE5) mode: PCIE5: PCIE 2.0 x4 mode)

*PCIE 3.0 is only supported with Intel® ky Bridge CPU. With Intel® Sandy Bridge CPU,
it only supports PCIE 2.0

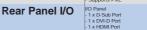
1 x PCI Express 2.0 x1 slot
1 x PCI Express 2.0 x1 slot
1 x PCI Express 2.0 x1 slot
2 x PCI Supports MO Loud CrossFireX™, 3-Way CrossFireX™ and CrossFireX™
Supports MO Loud CrossFireX™, 3-Way SLI™ and SLI™

Supports NVIDIA® Coud SLI™, 3-Way SLI™ and SLI™

Supports NNUP Quant Strong Process Fire XTM and CrossFire XTM supports NNUPA Quant Strip X-34W Str

7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec) Premium Blu-ray audio support Supports THX TruStudio™ Audio

PCIE x1 Gigabit LAN 10/100/1000 Mb/s Broadcom BCM57781 LAN



Supports PXE
(D Panel
1 x D-Sub Port
1 x DVLD Port
1 x MPLD Port
1 x MPLD Port
1 x MPLD Port
1 x SplapPort
1 x Option Port
1 x

- Hu Audio Jack: Real' speaker / Centinal Jass's Line in r Front speaker / Microphol 2. x SATA's 6.0 Gbls connectors by Intel" 268, support RAID (RAID 0, RAID 1, RAID 10, RAID 5, Intel Rapid Storage and Intel Smart Response Technology NCC, JAHCI and "Hot Plug" functions 4. x SATA's 6.0 Gbls connectors by ASMedia ASM1041, support NCC, AHCI and "Hot Plug" functions (SATA's Ad connector is shared with eSATA's port) 4. x Rear USB 3.0 ports by ASMedia ASM1042, support USB 1.0/2.0/3.0 up to 5Gbls SATA3

USB 3.0 T x Front USB 3.0 header (supports 2 USB 3.0 ports) by ASMedia ASM1042, supports USB 1.0/2.0/3.0 up to 5Gb/s

Connector

- 1 x Froit USB 3 of Ject 2013 of up to SEODIS A USB 3 of ports by SAMBWAR ASMINOUZ.

4 x SATA 2 3.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 10, RAID 5, Intel Rapid Storage and Intel Smart Response Technology), NCO, AHCI and Hol Plug function 6 x SATA 3 6.0 Gb/s connectors

1 x IR Reader

1 x CIR header

1 x CIR header

1 x CIR header

1 x CIR header

1 x CIR beader

1 x COM port header

1 x FEE 1996 header

1 x Power Switch with LED 1 x Reset Switch with LED 1 x Clear CMOS Switch with LED **Smart Switch BIOS Feature**

- 64Mh AMI LEFT Legal BIOS with GUI support
- Supports "Plug and Play"
- ACPI 1.1 Compliance Wake Up Events
- Supports jumperfree
- SMBIOS 2.3 I Support
- CPU Core, IGPU, DRAM, PCH, CPU PLL, VTT, VCCSA Voltage Multi-adjustmi - Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, ASRock Software Suite (CyberLink DVD Suite - OEM and Trial: ASRock MAGIX Multimedia Suite - OEM) **Support CD**

Unique Feature

ASNOCA Solivate Surface (Special Initial United Solidary Color Multimedia Suffer OEM)

ASRock Extreme Tuning Utility (AXTU)

ASRock Instant Bost

ASRock Instant Bost

ASRock Shart Hash

ASRock Strast USB

ASRock Strast USB

ASRock AST Solidary

ASRock AST Solidary

ASRock AST Solidary

ASRock Mars LOB

ASRock On/Off Play Technology

Hybrid Booster

- CPU Frequency Stepless Control

- ASRock DIVCOP

- Boot Failure Guard (B.F.G.)

Combo Cooler Option (C.C.O.)

Hardware Monitor

os

CPU Temperature Sensing
Chassis Temperature Sensing
CPUChassis/Power Fan Tachometer
CPUChassis Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Tem
CPUChassis Fan Multi-Speed Control
Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore Microsoft* Windows* 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit compliant

Certifications

FCC, CE, WHOL ErP/EuP Ready (ErP/EuP ready pov

1 x ASRock S.I., Bridge, 2S Card
1 x ASRock 3-Way S.I. J 2S2S Bridge Card
Oulck Installation Guide, Support CD, I/O Shield
6 x SATA Data Cables (Optional)
2 x SATA 1 b 1 Power Cables (Optional)
1 x 3 Smm Audio Cable (Optional)
1 x 3 Smm Audio Cable (Optional)
4 x HDD Screws Accessories











DIGIPOWER

















Product Brief < < <

- Premium Gold Caps (2.5 x longer life time), 100% Japan-made high-quality Conductive Polymer Capacitors

- Digi Power, Advanced V8 + 4 Power Phase Design

- Nvidia NF200 Chip Onboard (Dual VGA cards at PCI-E x16/x16; three VGA cards at x16 / x8 / x8)

- 1x PCle 3.0 x16 Slot, 4 PCle 2.0 x16 Slots, Supports AMD 3-Way CrossFireX[™] and NVIDIA® 3-Way SLI[™]

- Supports Intel® HD Graphics Built-in Visuals

- Multi-VGA Output : D-Sub, DVI-D, HDMI, DisplayPort

- Supports Dual LAN with Teaming function

- Dr. Debug, Smart Switch Design: Power/Reset/Clear CMOS Switch with LED

- Support Intel Smart Response, Lucid Virtu Switchable

- Supports ASRock XFast USB, XFast LAN Technologies

- Supports ASRock On/Off Play, graphical UEFI, ASRock Extreme Tuning Utility (AXTU)

- Combo Cooler Option (C.C.O.)

- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec), Supports THX TruStudio™

- Free Bundle: 1 x Front USB 3.0 Panel, 1 x Rear USB 3.0 Bracket, 1 x 3.5mm Audio Cable, CyberLink MediaEspresso 6.5 Trial, ASRock MAGIX Multimedia Suite

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

Z68 Extreme7 Gen3

Intel® Z68 Chipset

Next-Gen PCIe 3.0 Support

By adopting PCI-E 3.0 quick switch IC onboard, the ASRock motherboards can support the

PCI Express 3.0 can maximize the bandwidth for the next-gen PCI Express 3.0 VGA cards, provide ultimate graphics performance





Get PCI-E 3.0 Benefits

- Higher bit rate 8.0GT/s
- Higher bandwidth per lane 1GB/s
- Higher efficiency 98.5% encoding efficiency
- 100% backward compatible with previous PCI-E 2.0 / 1.0 standard

PCI-E architecture	Raw bit rate	Bandwidth per lane	Encoding Efficiency
PCI-E 2.0	5.0GT/s	500MB/s	80%
PCI-E 3.0	8.0GT/s	1GB/s	98.5%

NVIDIA NF200 Chip Onboard



NVIDIA NF200 chip generates more PCI-E lanes for you! With this chip onboard, the ASRock Z68 Extreme7 Gen3 is capable of running dual VGA cards at PCI-E x16 / x16 mode and three VGA cards at x16 / x8 / x8 mode to get maximum graphics performance



Dual VGA Cards

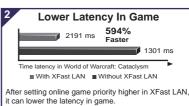
Three VGA Cards 3-Way SLI / CrossFireX







You can configure your application priority ideally and/or add new programs.





You can watch Youtube HD video and download files simultaneously.



With the status window, you can easily recognize which data streams you are currently transferring.



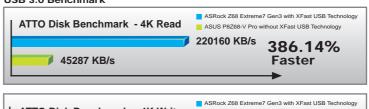


XFast USB Technology

The world's fastest USB transfer speed



USB 3.0 Benchmark





Z68 Extreme7 Gen3

Intel® Z68 Chipset

ISRoc www.asrock.com

On/Off Play

Enjoy great audio experience from the portable audio devices via PC speaker even when the system is powered off.





Free Bundle 3.5mm Audio Cable

Suite

Graphical UEFI

- * Graphical Visual Experience
- Mouse Enabling
- * Supports 3TB bootable HDD



Cyberlink MediaEspresso 6.5 Trial

The fastest video media conversation



THX TruStudio

Delivering the fullest audio experience for games, music and movies

MAGIX Multimedia Lucid Virtu™

The ultimate solutions to enhance your media experience. From music

management, music creation, video editing to photo management.

With Lucid Virtu software, next-generation PCs with 2nd

Generation Intel® Core™ processor platforms will dynamically assign tasks in real time to the best available graphics resource based on power, performance and features.

Intel Smart Response Technology

For users who are tempted to connect the SSD and HDD on ASRock Z68 Motherboard Series, the Intel Smart Response Technology can make the SSD become the "Cache of the HDD" to boost up the HDD access speed.









AXTU

ASRock Extreme Tuning Utility (AXTU) is an all-in-one software to fine-tune different features in an userfriendly interface, which includes Hardware Monitor, Fan Control, Overclocking, OC DNA and IES



Intel® HD Graphics Built-in Visuals Dual LAN Teaming









Dual LAN with Teaming function enabled on this motherboard allows two single connections to act as one single connection for twice the transmission bandwidth, making data transmission more effective.



Intel* Quick Sync Video Intel* $InTru^{TM}$ 3D

Intel® Clear Video HDIntel® HD Graphics Technology

Digi Power

By adopting digital Pulse-width modulation (PWM), the Z68 Extreme7 Gen3 can provide CPU Vcore voltage more efficiently and smoothly



6 SATA3 + 6 USB 3.0

Coupled with six USB 3.0 and six SATA3 ports, the ASRock Z68 Extreme7 Gen3 offers plenty of storage options. Based on the concept of customization, this board is specially equipped with six USB 3.0 ports (two from external Front USB 3.0 panel, four from real I/O) and six SATA 3 connectors to satisfy PC DIYer's various needs



Advanced V8 + 4 Power **Phase**

The ASRock Z68 Extreme7 Gen3 is designed with a V8 + 4 Power Phase, featuring sturdy components and completely smooth power delivery to the CPU. It offers unmatched overclocking capability and enhanced performance with the lowest temperatures for PC gaming enthusiasts



C.C.O. (Combo **Cooler Option)**

C.C.O. provides the flexible option to adopt three different CPU cooler types, Socket LGA 775, LGA 1155 and LGA 1156



Premium Gold Caps

Premium Gold Caps are 100% Japan-made solid capacitors are sleek, high gloss caps with a premium gold coating representing long life and stable performance



Craftsman Heatsink Design

The ASRock Z68 Extreme7 Gen3 features a craftsman heatsink design. The metallic and minimalism look of the package brings the atmosphere of technology; On the other hand, the stylish brushed aluminum heatpipe design also ensures its effective heat dissipation.

