Z68 Extreme4 Gen3

Intel® Z68 Chipset



CPU Temperature Sensing Chassis Temperature Sensing CPUChassis Yower Fan Tachometer CPUChassis Cuiet Fan (Alow Chassis Fan Speed Auto-Adjust by CPU Ter CPUChassis Cuiet Fan (Alow Chassis Fan Speed Auto-Adjust by CPU Ter Voltage Monitoring +12V, +5V, +3.3V, CPU Vcore

Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit compliant

FCC, CE, WHQL ErP/EuP Ready (ErP/EuP ready power supply is rea

1 x ASRock SLLBridge_2S Card Duck Installation Collect, Support CD, I/O Shield A SATA Data Cables (Optional) 2 x SATA 1 to 1 Power Cables (Optional) 1 x From USB 3.0 Panel 1 x From USB 3.0 Panel 6 x Chassis Scraws 5 x Chassis Scraws 1 x Rear USB 3.0 Bracket

Hardware Monitor

Certifications

Accessories

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	Detail Specification < < <			
Competible with	Platform	- ATX Form Factor: 12.0-in x 9.6-in, 30.5 cm x 24.4 cm - All Solid Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)		
	CPU	- Supports ²² " Generation Intel [®] Core ³⁴ 17 / 15 / 13 in LGA1155 Package Advanced V8 + 4 Power Phase Design - Supports Intel [®] Trube Boost 20 Technology - Supports Intel [®] K-Series unlocked CPU - Supports Intel [®] T-Interading Technology		
	Chipset	- Intel® Z68		
	Memory	- Dual Channel DDR3 memory technology 4 x DDR3 DIMM slots Supports DDR3 2133(OC)/1866(OC)/1600/1333/1066 non-ECC, un-buffered memory Max. capacity of system memory 32GB 5 Supports Intel [®] Extreme Memory Profile (XMP)		
	Expansion Slot	- 2 x PCI Express 3.0 x16 slots (PCIE2/PCIE4: single at x16 or dual at x8/x8 mode) (PCI Express 3.0 with Intel® Ivy Bridge CPU, PCI Express 2.0 with Intel® Sandy Bridge 1 x PCI Express 2.0 x16 slot (PCIE5: x4 mode) - 2 x PCI Express 2.0 x1 slots - 2 x PCI slots - 5upports AND Quad CrossFireX TM - 3.Way CrossFireX TM and CrossFireX TM - 5upports AND/A* Quad SLI TM and SLI TM		
	Graphics	Supports Intel [®] HD Graphics Bull in Visuals. Intel [®] Dukt Sync Video, Intel [®] Ihm [®] 20: Intel [®] Clear Video HD Technology, Intel [®] HD Graphics 2000/3000, Intel [®] Advanced Vector Extensions (AVX) Prival Shader A. D Direck 11 with Intel [®] typ Bridge CPU, Direck 10.1 with Intel [®] Sandy Bridge CPU Extensions (AVX) Four VGA Output options: D Sub. DVI-D, HDMI and DisplayPort Supports DVM Immax: resolution up to 1920x1200 @ 60Hz Supports DVM Immax: resolution up to 1920x1200 @ 60Hz Supports DVM Immax: resolution up to 1920x1200 @ 60Hz Supports D-Sub with max: resolution up to 1920x120C and HBR (High BIR Rate Audio) with HDMI (Compliant HDMI monitor is required) Supports Full D Sync, Deep Colin (2De)sin/SVC and HBR (High BIR Rate Audio) with HDMI (Compliant HDMI monitor is required) Supports Full D 1080p Blu-ray (BD) / HD-DVD playback with DVI, HDMI and DisplayPort ports		
<image/> <image/> <image/> <image/> <image/> <image/>	Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec) - Premium Blu-ray audio support - Supports THX TruStudio ^{nst}		
	LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Broadcom BCM57781 - Supports Exercited Concerner (Section 2014) - Supports Exercy Efficient Ethernet 802.3az - Supports PX-		
	Rear Panel I/O	ND Panel 1 x PS2 Keyboard Port 1 x DS3b Port 1 x DS4b Port 1 x SUND Port 1 x SUND Port 1 x SUND Port 1 x SUND Port 4 x Ready-to-Use USB 2.0 Ports 4 x Ready-to-Use USB 2.0 Ports 1 x 4SATA Sonnetor 2 x Ready-to-Use USB 3.0 Ports 1 x R2-45 LNB Port with LED (ACT/LINK LED and SPEED LED) 1 x R2-45 LNB Port with LED (ACT/LINK LED and SPEED LED)		
	SATA3	1 x IEEE 1394 Port 1 x Clear CMOS Swlich with LED HD Audio Jack: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone 2 x SATA3 6.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 10, RAID 5, Intel Rapid Storage and Intel Smart Response Technology), NCO, AHCI and "Hot Plug" Innctions (SATA3, 0.0 Gb/s connectors by Marvell SEP100, support NCO, AHCI and "Hot Plug" Innctions (SATA3, M2 connector is shared with eSATA3 port)		
Fast LAN	USB 3.0	- 2 x Rear USB 3.0 ports by Etron EJ168A, support USB 1.0/2.0/3.0 up to 5Gb/s 1 x Front USB 3.0 header (supports 2 USB 3.0 ports) by Etron EJ168A, supports USB 1.0/2.0/3.0 up to 5Gb/s		
Pramium Gold Cape Unit of the spectrum MediaEspresso 6.5	Connector	4 x SATA2 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 Hot Plug functions 4 x SATA3 6 of Gb/s connectors 1 x Floppy connector 1 x CIN port header 1 x COM port header 1 x COM port header 1 x HMM, SPOTF header 2 x HMM, SPOTF header 3 x HMM, SPOTF header 4 x HMM, SPOTF header		
Product Brief < < < - Premium Gold Caps (2.5 x longer life time), 100%		- 8 ph 12V power connector - 5UXFtrie power connector - Front panel audio connector - 3 VLSB 2:0 header (supports 6 USB 2:0 ports) - 1 x USB 3:0 header (supports 2 USB 3:0 ports) - 1 x D:D audio with EED		
Japan-made high-quality Conductive Polymer Capacitors		- 1 x Power Switch with LED		
- Digi Power, Advanced V8 + 4 Power Phase Design	Smart Switch	- 1 x Power Switch with LED - 1 x Clear CMOS Switch with LED - 1 x Clear CMOS Switch with LED		
- 2 x PCIe 3.0 x16 Slots, 1 x PCIe 2.0 x16 Slot, Supports	BIOS Feature	- 64Mb AMI UEFI Legal BIOS with GUI support - Supports "Plug and Play"		
AMD 3-Way CrossFireX [™] and NVIDIA [®] Quad SLI [™]		- ACP 1.1 Compliance Wake Up Events - Supports Jumperfree - SMBIOS 2.3.1 Support - CPU Core, IGPU, DRAM, PCH, CPU PLL, VTT, VCCSA Voltage Multi-adjustment		
- Supports Intel [®] HD Graphics Built-in Visuals		Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial,		
- Dr. Debug, Smart Swith Design: Power/Reset/Clear	Support CD	ASRock Software Suite (CyberLink DVD Suite - OEM and Trial; ASRock MAGIX Multimedia Suite - OEM)		
CMOS Switch with LED	Unique Feature	- ASRock Extreme Tuning Utility (AXTU) - ASRock Instant Boot - ASRock Instant Flash - ASRock APP Charger		
- Support Intel Smart Response, Lucid Virtu Switchable		- ASRock SmartView - ASRock XFast USB - ASRock XFast LAN		
Graphics		- Lucid Virtu - ASRock On/Off Play Technology - Hybrid Booster: - CPU Frequency Stepless Control		
Supports ASRock XFast USB, XFast LAN TechnologiesSupports ASRock On/Off Play, graphical UEFI, ASRock		- CFD Frequency Suppose Control - AStrock U-COP - Boot Failure Guard (B.F.G.) - Combo Coder Option (C.C.O.) - Good Night LED		

- 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 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.

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Intel® Z68 Chipset

Next-Gen PCIe 3.0 Support



By adapting PCI-E 3.0 quick switch IC onboard, the ASRock motherboards can support the Next-Gen PCI-E 3.0! PCI Express 3.0 can maximize the bandwidth for the next-gen PCI Express 3.0 VGA cards, provide ultimate graphics performance.

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	PCI-E architecture	Raw bit rate	Total bandwidth for x16 link
	PCI-E 1.0	2.5GT/s	8GB/s
	PCI-E 2.0	5.0GT/s	16GB/s
	PCI-E 3.0	8.0GT/s	32GB/s
Alter and Alter a	*Tota	I bandwidth represents the agg	egate interconnect bandwidth in both directions

Lucid Virtu[™]



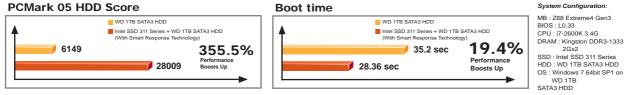
With Lucid Virtu software, next-generation PCs with 2nd Generation Intel[®] Core[™] processor platforms will dynamically assign tasks in real time to the best available graphics resource based on power, performance and features.

		Test Platform :
Video File Convert Comparison	ASRock Z68 MB with Lucid Virtu (Convert by Intel HD Graphics)	MB : ASRock Z68 Motherboard Other Z68 Motherboard
3 Sec = -	Other Z88 MB without Lucid Virtu (Convert by Nvidia GTX580) 5.48% ster	CPU : Intel Core i7 2600K 3.4GHz DRAM : Kingston DDR3-1333 2Gx2 HDD : WD 500GB VGA : Wolda GTX580 : Intel HD Graphics OS : Windows 7 64bit SP1 Lucid : Lucid VIRTU 1.0.105 Nvidia Driver : 266 58
Convert time	(Lower is better)	Application : Cyberlink MediaEspresso 6.5 Original File : m2ts, 1080p, 2200MB

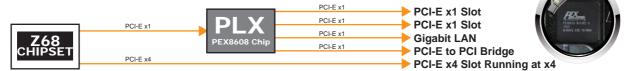
Intel Smart Response Technology



For users who are tempted to connect the SSD and HDD on ASRock Z68 Extreme4 Gen3 Motherboard, the Intel Smart Response Technology can make the SSD become the "Cache of the HDD" to boost up the HDD access speed.



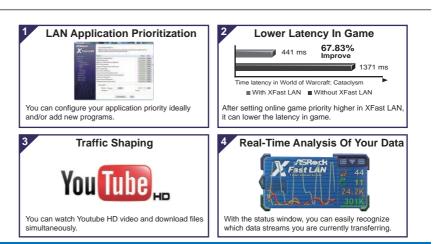
PLX PEX8608 Chip Onboard



With PLX PEX8608 chip, it generates more PCI-E lanes for PCI-E devices, so that all PCI-E devices are able to work at the proper speed simultaneously!

XFast LAN Technology





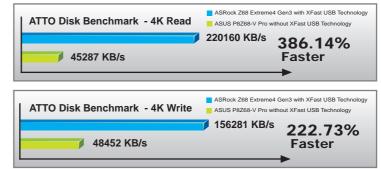
Z68 Extreme4 Gen3

Intel[®] Z68 Chipset

The world's fastest USB transfer speed.

XFast USB Technology

USB 3.0 Benchmark



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On/Off Play

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

Boosts up your USB speed





Free Bundle 3.5mm Audio Cable



Technology

Intel[®] HD Graphics Built-in Visuals

Intel® Quick Sync Video Intel® InTru™ 3D Intel® Clear Video HDIntel® HD Graphics

Intel® Advanced Vector Extensions (AVX)

Digi Power

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

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.

Multi-VGA Output Options

D-Sub / DVI-D / Display / HDMI

THX TruStudio

2000/3000

Delivering the fullest audio experience for games, music and movies.





Graphical UEFI

* Graphical Visual Experience

Mouse Enabling * Supports 3TB bootable HDD

DIGI POWER





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.



MAGIX Multimedia Suite

The ultimate solutions to enhance your media experience. From music management, music creation, video editing to photo management. Simply do more with your media than you even thought possible.



Cyberlink MediaEspresso 6.5 Trial

The fastest video media conversation software





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