

# Z68M/USB3

Intel® Z68 Chipset

**ASRock**  
www.asrock.com



## Product Brief <<<

- 100% All Solid Capacitor Design
- Supports Intel® HD Graphics Built-in Visuals
- Multi-VGA Output : D-Sub, DVI-D and HDMI
- Support Intel Smart Response, Lucid Virtu Switchable Graphics
- Supports ASRock XFast USB, XFast LAN Technologies
- Supports 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 : 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.

## Detail Specification <<<

<b>Platform</b>	- Micro ATX Form Factor: 9.6-in x 8.6-in, 24.4 cm x 21.8 cm - All Solid Capacitor design
<b>CPU</b>	- Supports 2 <sup>nd</sup> Generation Intel® Core™ i7 / i5 / i3 in LGA1155 Package - 4 + 2 Power Phase Design - Supports Intel® Turbo Boost 2.0 Technology - Supports Intel® K-Series unlocked CPU - Supports Hyper-Threading Technology
<b>Chipset</b>	- Intel® Z68
<b>Memory</b>	- Dual Channel DDR3 memory technology - 2 x DDR3 DIMM slots - Supports DDR3 2133(Oc)/1866(Oc)/1600/1333/1066 non-ECC, un-buffered memory - Max. capacity of system memory: 16Gb - Supports Intel® Extreme Memory Profile (XMP)
<b>Expansion Slot</b>	- 1 x PCI Express 2.0 x16 slot (blue @ x16 mode) - 2 x PCI Express 2.0 x1 slots - 1 x PCI slot
<b>Graphics</b>	- Supports Intel® HD Graphics Built-in Visuals : Intel® Quick Sync Video, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® HD Graphics 2000/3000, Intel® Advanced Vector Extensions (AVX) - Pixel Shader 4.1, DirectX 10.1 - Max. shared memory 1759MB - Three VGA Output options: D-Sub, DVI-D and HDMI - Supports HDMI 1.4a Technology with max. resolution up to 1920x1200 @ 60Hz - Supports DVI with max. resolution up to 1920x1200 @ 60Hz - Supports D-Sub with max. resolution up to 2048x1536 @ 75Hz - Supports Auto Lip Sync, xVCC and HBR (High Bit Rate Audio) with HDMI (Compliant HDMI monitor is required) - Supports HDCP function with DVI and HDMI ports - Supports Full HD 1080p Blu-ray (BD) / HD-DVD playback with DVI and HDMI ports
<b>Audio</b>	- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec) - Premium Blu-ray audio support - Supports THX TruStudio™
<b>LAN</b>	- PCIe x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111E - Supports Wake-On-LAN - Supports LAN Cable Detection - Supports Energy Efficient Ethernet 802.3az - Supports PXE
<b>Rear Panel I/O</b>	I/O Panel - 1 x PS/2 Keyboard Port - 1 x D-Sub Port - 1 x DVI-D Port - 1 x HDMI Port - 1 x Optical SPDIF Out Port - 4 x Ready-to-Use USB 2.0 Ports - 2 x Ready-to-Use USB 3.0 Ports - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jack: Rear Speaker / Central / Bass / Line In / Front Speaker / Microphone
<b>SATA3</b>	- 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), NCC, AHCI and "Hot Plug" functions
<b>USB 3.0</b>	- 2 x USB 3.0 ports by Etron EJ168A, support USB 1.0/2.0/3.0 up to 5Gb/s
<b>Connector</b>	- 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), NCC, AHCI and Hot Plug functions - 2 x SATA3 6.0 Gb/s connectors - 1 x Floppy connector - 1 x IR header - 1 x CIR header - 1 x Print Port header - 1 x COM port header - 1 x HDMI SPDIF header - 1 x Power LED header - CPU/Chassis/Power FAN connector - 24 pin ATX power connector - 8 pin 12V power connector - Front panel audio connector - 3 x USB 2.0 headers (support 6 USB 2.0 ports)
<b>BIOS Feature</b>	- 64Mb AMI UEFI Legal BIOS with GUI support - Supports "Plug and Play" - ACPI 1.1 Compliance Wake Up Events - Supports jumperfree - SMBIOS 2.3.1 Support - iGPU, DRAM, PCH, CPU PLL, VTT, VCCSA Voltage Multi-adjustment
<b>Support CD</b>	- 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)
<b>Unique Feature</b>	- ASRock Extreme Tuning Utility (AXTU) - ASRock Instant Boot - ASRock Instant Flash - ASRock APP Charger - ASRock SmartView - ASRock XFast USB - ASRock XFast LAN - Lucid Virtu - Hybrid Booster: - CPU Frequency Stepless Control - ASRock U-COP - Boot Failure Guard (B.F.G.) - Combo Cooler Option (C.C.O.) - Good Night LED
<b>Hardware Monitor</b>	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU/Chassis/Power Fan Tachometer - CPU/Chassis Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) - CPU Fan Multi-Speed Control - Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore
<b>OS</b>	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit compliant
<b>Certifications</b>	- FCC, CE, WHQL - ErP/EuP Ready (ErP/EuP ready power supply is required)
<b>Accessories</b>	- Quick Installation Guide, Support CD, I/O Shield - 2 x SATA Data Cables (Optional)

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## XFast LAN Technology

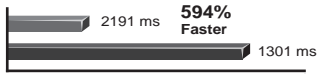


**1 LAN Application Prioritization**



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

**2 Lower Latency In Game**




Time latency in World of Warcraft: Cataclysm

■ With XFast LAN ■ Without XFast LAN


After setting online game priority higher in XFast LAN, it can lower the latency in game.

**3 Traffic Shaping**



You can watch Youtube HD video and download files simultaneously.

**4 Real-Time Analysis Of Your Data**



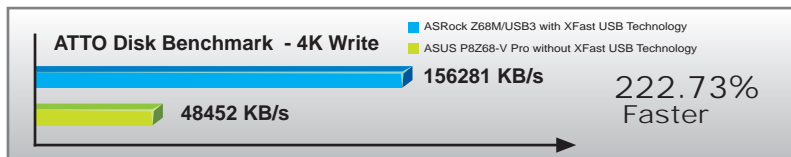
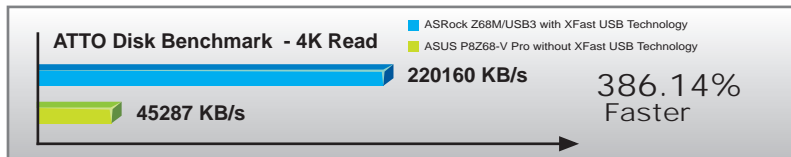
With the status window, you can easily recognize which data streams you are currently transferring.

## XFast USB Technology

The world's fastest USB transfer speed.



### USB 3.0 Benchmark



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## Graphical UEFI

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



## Cyberlink MediaEspresso 6.5 Trial

The fastest video media conversion software



## THX TruStudio

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



## 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 ever thought possible.



## Lucid Virtu™

With Lucid Virtu software, next-generation PCs with 2<sup>nd</sup> 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 a userfriendly interface, which includes Hardware Monitor, Fan Control, Overclocking, OC DNA and IES.



## Intel® HD Graphics Built-in Visuals

## Multi-VGA Output Options

D-Sub / DVI-D / HDMI



Intel® Quick Sync Video Intel® InTru™ 3D Intel® Clear Video HD Intel® HD Graphics 2000/3000 Intel® Advanced Vector Extensions (AVX)

