

Z68M-ITX/HT

Intel® Z68 Chipset

ASRock®
www.asrock.com



FREE Bundle



Product Brief <<<

- ASRock DuraCap (2.5 x longer life time, 100% Japan-made high-quality Conductive Polymer Capacitors)
- Supports Intel® K-Series unlocked CPU
- Supports Dual Channel DDR3 2133(OC)
- Supports Intel® HD Graphics with Built-in Visuals
- Multi-VGA Output : D-Sub, DVI-D, HDMI
- Support Intel Smart Response, Lucid Virtu Switchable Graphics
- Supports ASRock XFast USB, XFast LAN Technologies
- Supports ASRock On/Off Play, graphical UEFI, ASRock Extreme Tuning Utility (AXTU)
- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec), Supports THX TruStudio™
- Free Bundle : 1 x MCE Remote Controller, 1 x Multi-Angle CIR Remote Receiver, 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.

Detail Specification <<<

Platform	- Mini-ITX Form Factor: 6.7-in x 6.7-in, 17.0 cm x 17.0 cm - All Solid Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)
CPU	- Supports 2 nd Generation Intel® Core™ i7 / i5 / i3 in LGA1155 Package - Supports Intel® Turbo Boost 2.0 Technology - Supports Intel® K-Series unlocked CPU - Supports Hyper-Threading Technology
Chipset	- Intel® Z68
Memory	- 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)
Expansion Slot	- 1 x PCI Express 2.0 x16 slot (blue @ x16 mode)
Graphics	- 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 11 with Intel® Ivy Bridge CPU, DirectX 10.1 with Intel® Sandy Bridge CPU - 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, xvYCC 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
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec) - Premium Blu-ray audio support - Supports THX TruStudio™
LAN	- 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
Rear Panel I/O	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 - 1 x eSATA2 Connector - 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
SATA3	- 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), NCQ, AHCI and "Hot Plug" functions
USB 3.0	- 2 x USB 3.0 ports by ASMedia ASM1042, support USB 1.0/2.0/3.0 up to 5Gb/s
Connector	- 2 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), NCQ, AHCI and Hot Plug functions - 2 x SATA3 6.0 Gb/s connectors - 1 x CIR header - 1 x Power LED header - CPU/Chassis FAN connector - 24 pin ATX power connector - 4 pin 12V power connector - Front panel audio connector - 2 x USB 2.0 headers (support 4 USB 2.0 ports)
BIOS Feature	- 32Mb 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
Support CD	- 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)
Unique Feature	- ASRock Extreme Tuning Utility (AXTU) - ASRock Instant Boot - ASRock Instant Flash - ASRock APP Charger - ASRock SmartView - ASRock XFast USB - ASRock XFast LAN - Lucid Virtu - ASRock On/Off Play Technology - Hybrid Booster: - CPU Frequency Stepless Control - ASRock U-COP - Boot Failure Guard (B.F.G.) - Good Night LED
Hardware Monitor	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU/Chassis Fan Tachometer - CPU/Chassis Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) - CPU/Chassis Fan Multi-Speed Control - Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore
OS	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit compliant
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 (Optional) - 1 x 3.5mm Audio Cable (Optional) - 1 x CIR Remote Receiver (Optional) - 1 x MCE Remote Controller (Optional)

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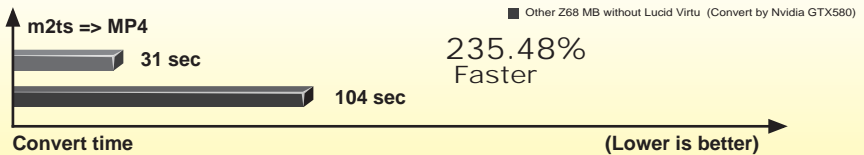
ASRock
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Lucid Virtu™



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.

Video File Convert Comparison



Test Platform :

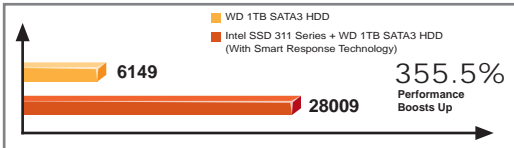
MB : ASRock Z68 Motherboard
Other Z68 Motherboard
CPU : Intel Core i7 2600K 3.4GHz
DRAM : Kingston DDR3-1333 2Gx2
HDD : WD 500GB
VGA : Nvidia GTX580 ; Intel HD Graphics
OS : Windows 7 64bit SP1
Lucid : Lucid VIRTU 1.0.105
Nvidia Driver : 266.58
Application : Cyberlink MediaEspresso 6.5
Original File : m2ts, 1080p, 2200MB

Intel Smart Response Technology

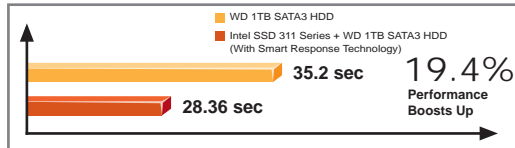


For users who are tempted to connect the SSD and HDD on Z68M-ITX/HT Motherboard, the Intel Smart Response Technology can make the SSD become the "Cache of the HDD" to boost up the HDD access speed.

PCMark 05 HDD Score



Boot time



System Configuration:

MB : Z68M-ITX/HT
BIOS : L0.33
CPU : i7-2600K 3.4G
DRAM : Kingston DDR3-1333 2Gx2
SSD : Intel SSD 311 Series
HDD : WD 1TB SATA3 HDD
OS : Windows 7 64bit SP1 on WD 1TB SATA3 HDD

XFast LAN Technology

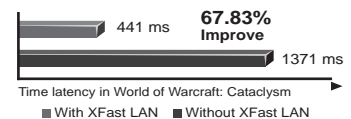


1 LAN Application Prioritization



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

2 Lower Latency In Game



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.

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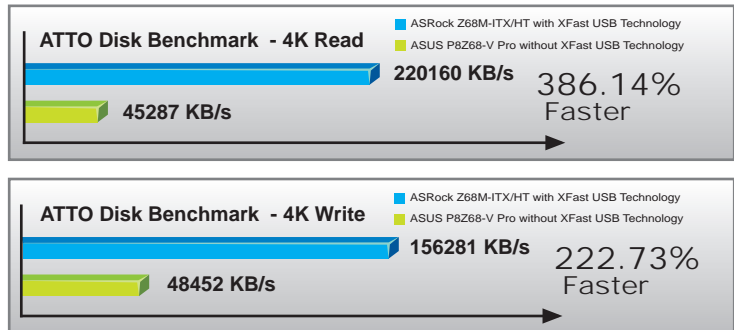
ASRock
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XFast USB Technology

The world's fastest USB transfer speed.



USB 3.0 Benchmark



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

Intel® HD Graphics Built-in Visuals



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

Graphical UEFI

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



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.



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.



THX TruStudio

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



App Charger

The best Apple charge companion



SmartView

The smart start page for IE that combines your most visited web sites, history, Facebook friends and real-time newsfeed.



ASRock Smart Remote

MCE Remote Controller
Multi-Angle CIR Remote Receiver



3 CIR Sensors in Different Angles

Cyberlink MediaEspresso 6.5 Trial

The fastest video media conversation software

