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Intel® Rapid Start Technology

Product Brief

- 100% All Solid Capacitor Design
- Digi Power Design
- Supports Dual Channel DDR3 2800+(OC)
- 1 x PCIe 3.0 x16 Slot, Supports AMD Quad CrossFireX™, CrossFireX[™]
- PCIE Gigabit LAN
- Supports Intel® HD Graphics with Built-in Visuals
- Dual-VGA Output Options : D-Sub, HDMI
- Combo Cooler Option (C.C.O.)
- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec), Supports THX TruStudio™
- Supports ASRock XFast RAM, XFast LAN, XFast USB, OMG, Internet Flash, On/Off Play, UEFI System Browser
- Supports Intel Smart Connect, Intel Rapid Start, Lucid Virtu Universal MVP
- Free Bundle: CyberLink MediaEspresso 6.5 Trial, ASRock MAGIX Multimedia Suite

	/ISRock
	www.asrock.com
Detail Specification	
Detail Speci	
Platform	- ATX Form Factor: 12.0-in x 7.6-in, 30.5 cm x 19.3 cm - All Solid Capacitor design
CPU	- Supports 3rd and 2rd Generation Intel® Core™ 17 / 15 / 13 in LGA1155 Package - Digl Power Dossign - 4 + 1 Power Phase Design - Supports Intel® Turbo Boost 2.0 Technology - Supports Intel® K-Serles unlocked CPU - Supports Hyper-Threading Technology - Supports Hyper-Threading Technology and Smart Connect Technology with Intel® Ivy Bridge CPU
Chipset	- Intel® Z77
Memory	- Dual Channel DDR3 memory technology - 4 x DDR3 DIMM slots - Supports DDR3 2800+(OC)/2400(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, un-buffered memory - Max. capacity of system memory: 32GB - Supports Intel [®] Extrems Memory Profile (XMP) 1.3 / 1.2
Expansion Slot	- 1 x PCI Express 3.0 x16 slot (PCIE2: x16 mode) * PCIE 3.0 is only supported with Intel* lvy 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 - 2 x PCI slots - Supports AMD Quad CrossFireX™ and CrossFireX™
Graphics	¹ 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 2.0, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Intel® Sandy Bridge CPU. - Max. shared memory 1760MB - Dual VGA Output: support HDMI and D-Sub ports by independent display controllers - Supports HDMI 1-4a Technology with max. resolution up to 1920x1200 @ 60Hz - Supports D-Sub with max. resolution up to 2048x1536 @ 75Hz - Supports HDMI monit rois required. - Compiliant HDMI monit rois required. - Supports HDCP function with HDMI port - Supports HDCP function with HDMI port
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 RT18111E - Supports Wake-On-LAN - Supports LAN Cable Detection - Supports Energy Efficient Ethernet 802.3az
Rear Panel I/O	I/O Panel - 1 x PSI/2 Keyboard Port - 1 x D-Sub Port - 1 x HDMI Port - 1 x HDMI Port - 4 x Ready-to-Use USB 2.0 Ports - 2 x Ready-to-Use USB 3.0 Ports - 1 x RJ-45 LAN Ports with LED (ACT/LINK LED and SPEED LED) - HD Audio Jack: Side Speaker / 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 5, RAID 10, Intel Rapid Storage and Intel Smart Response Technology), NCO, AHCI and Hot Plug functions
USB 3.0	- 2 x Rear USB 3.0 ports, 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), supports USB 1.0/2.0/3.0 up to 5Gb/s
	- 4 x SATA2 3.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 5, RAID 10, Intel Rapid Storage and Intel Smart Response Technology), NCO, AHCI and Hot Plug functions - 2 x SATA3 6.0 Gb/s connectors - 1 x IR header - 1 x CDM pert header - 1 x COM pert header - 1 x HDML_SPDIF header - 1 x HDML_SPDIF header - 1 x HDML_SPDIF header - 1 x Power LED header - 2 x Power LED header - 3 x HDML_SPDIF header - 3 x HDML_SPDIF header - 3 x HDML_SPDIF header - 1 x Power LED header - 3 x HDML_SPDIF header - 4 x HDML_SPDIF header - 5 x HDML_SPDIF header - 5 x HDML_SPDIF header - 6 x HDML_SPDIF header - 7 x HDML_SPDIF header - 8 x HDML_SPDIF header - 8 x HDML_SPDIF header - 9 x HDML_SPDIF header - 9 x HDML_SPDIF header - 1 x HDML
BIOS Feature	- 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 - CPU Core, IGPU, DRAM, 1.8V PLL, VTT, VCCSA Voltage Multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, ASRock MAGIX Multimedia Suite - OEM
Unique Feature	- ASRock Extreme Tuning Utility (AXTU) - ASRock Instant Boot - ASRock Instant Boot - ASRock Instant Flash - ASRock Potarger

Hardware Monitor

CPU Temperature Sensing Chassis Temperature Sensing CPU/ChassiS/Power Fan Tachometer CPU Quiel Fan (Allow Chassis Fan Speed Auto-Adju CPU/Chassis 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 power supply is required) Quick Installation Guide, Support CD, I/O Shield 2 x SATA Data Cables (Optional)

Accessories





Virtu Universal MVP - Uncompromised Game Response Performance



1. HyperFormance™:

A new technology which combines integrated and discrete graphics for uncompromised performance and improves gaming frame rates 30-70%.

The performance boost percentage may vary with a different configuration.

It's also supported with both ATI and NVIDIA graphics cards.

3. Switchable Graphics:

Dynamically assigns tasks to the best graphics resource regardless of physical cable connections.



2. Virtual Vsync:

A technology designed to solve the ever lasting debate between quality and performance. Bring GPU performance from 60 FPS Vsync limit back to its maximum while keeping Vsync image quality and no tearing.





Technology

Intel Smart Connect Technology keeps content continuously updated while the PC is asleep! It will periodically wake up the PC while in a sleep state and check updates for things like email, Twitter, Facebook, etc



Intel Smart Connect Intel Rapid Start **Technology**

Quickly return to where you left off with a PC that goes from deep-sleep to full awake in a flash.



Digi Power

By adopting digital Pulse-width modulation (PWM), the Z77 motherboard can provide CPU Vcore voltage more efficiently and smoothly.



4 x DDR3 2800+(OC)

ASRock 7-Series motherboards unlock maximum memory performance, coming with 4 DIMM slots for dual-channel memory, supporting up to DDR3 2800+(OC) MHz!





Next-Gen PCIe 3.0

- 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

Note: Supported with 3rd Gen Intel Core Processor

ASRock OMG (Online Management Guard)

Fast, Easy and Free - ASRock OMG technology allows you to establish an internet curfew or restrict internet access at specified times. Administrators are able to schedule the starting and ending hours of internet access granted to other users.

Internet Flash

Internet Flash searches for available UEFI firmware updates from ASRock servers System can auto-detect the latest UEFI from our servers and flash them within UEFI setup without entering Windows * OS.

Intel HD Graphics

Intel® HD Graphics, simplifies your designs by eliminating additional discrete graphics hardware, while integrating stunning visuals and performance for immersive gaming.

















THX TruStudio

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

UEFI System Browser

UEFI system browser is a useful tool included in graphical UEFI. It can detect the devices and configurations that users are currently using in their PC.

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, IES and XFast RAM.

Cyberlink MediaEspresso 6.5 Trial

The fastest video media conversation software









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.

