







































Technology



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
- Multi-VGA Output Options: D-Sub, DVI-D, 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

		www.asrock.com
	Detail Speci	fication
	Platform	- Micro ATX Form Factor: 9.6-in x 9.6-in, 24.4 cm x 24.4 cm - All Solid Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)
	CPU	- Supports 3 st and 2 st Generation Intel* Coro™ i7 / i5 / i3 in LGA1155 Package - Digi Power Design - 4 + 2 Power Phase Design - Supports intel* Turbo Boost 2.0 Technology - Supports Intel* K-Series unlocked CPU - Supports Hyper-Threading Technology
	Chipset	- Intel® Z77 - Supports Intel® Rapid Start Technology and Smart Connect Technology
	Memory	- Dual Channel DR3 memory technology -4 x DR3 DIMM slots - Supports DDR3 2800+(OC)/2400(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, un-buffered memory - Max. capacity of system emory: 32GB - Supports Intel [®] Extreme Memory Profile (XMP) 1.3 / 1.2
	Expansion Slot	- 1 x PCI Express 3.0 x16 stot (PCIE1: x16 mode) * PCIE 3.0 is only supported with Intel® hy Bridge CPU. With Intel® Sandy Bridge CPU, it only supports PCIE 2.0 - 2 x PCIE Express 2.0 x1 slot - 1 x PCIE Express 2.0 x1 slot - Supports AMD Quad CrossFireX™ and CrossFireX™
	Graphics	Intel® HD Craphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU Integrated - Supports Intel® HD Craphics Built-in Visuals: Intel® Quick Sync Video 2.0, Intel® Intru™ 3D, Intel® Clare Video HD Technology, Intel® Intel® Clare Video HD Technology, Intel® Instel® Clare Video HD Technology, Intel® Instel® Clare Video HD Technology, Intel® Instel® Sandy Bridge CPU. - Max. shared memory 1760MB - 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 1920x1200 & HD Intel® Clare Video HDMI - Supports D-Sub with max. resolution up to 2048x1536 @ 75Hz - Supports LD LI pSync. Deep Cofor (72bp.) xYPCC and HBR (High Bit Rate Audio) with HDMI - Compliant HDMI monitor is required) - Supports HDMI HDMI Intel® DVI and HDMI ports - Supports Full HD 1080p Bitu-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 - Support THX TruStudio ¹¹
	LAN	PCIE XT Gigabit LAN 10/100/1000 Mb/s - Realiek RTL411TE - Supports Wake-On-LAN - Supports LAN Cable Detection - Supports Energy Efficient Ethernet 802.3az - Supports Energy Efficient Ethernet 802.3az
	Rear Panel I/O	I/O Panel - 1 x PS:// Keyboard Port - 1 x D-Sub Port - 1 x D-Vub 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 eSATA3 Connector - 2 x Ready-to-Use USB 3.0 Ports - 1 x R.1-45 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 by Intel* 277, support RAID (RAID 0, RAID 1, RAID 5, RAID 10, Intel Rapid Storage and Intel Smart Response Technology), NCQ, AHCl and "Hot Plug" functions - 2 x SATA3 6.0 Gb/s connectors by ASMedia ASM1061, support NCQ, AHCl and "Hot Plug" functions (SATA3_A1 connector is shared with eSATA3 port)
	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
	Connector	- 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), NCQ, AHCI and Hot Plug functions - 4 x SATA3 6.0 Gb/s connectors - 1 x IR header - 1 x Print Port header - 1 x Print Port header - 1 x CMD port header - 1 x FMDMI_SPDIF header - 1 x F
	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 Flash - ASRock APP Charger - ASRock APP Charger - ASRock XFast USB - ASRock XFast LAN - ASRock Notion (Contine Management Guard) - ASRock Off Contine Management Guard) - ASRock Internet Flash - Luicid Virtu Universal MVP - Lucid Virtu Virt
	Hardware Monitor	- CPU Temperature Sensing - Chassis Temperature Sensing - Chassis Temperature Sensing - CPU/Chassis/Power Fan Tachometer - CPU/Chassis Quiel 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 hit / Vista™ / Vista™ 64 hit / YP / YP 64 hit compliant

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

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)

Certifications

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/sHigher 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.

On/Off Play

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

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.

