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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 : DVI-D, 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, 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

	- Supports Intel® K-Series unlocked CPU - Supports Intel® K-Series unlocked CPU - Supports Hyper-Threading Technology - Supports Intel® Rapid Start Technology and Smart Connect Technology with Intel® by Bridge CPU
Chipset	- Intel® 277
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® Extreme Memory Profile (XMP) 1.3 / 1.2
Expansion Slot	- 1 x PCI Express 3.0 x 1/6 stot (PCIE2: x16 mode) * PCIE 3.0 is only supported with Intel® lyv Bridge CPU. With Intel® Sandy Bridge CPU, it only supports PCIE 2.0. - 1 x PCI Express 2.0 x 1 slot (PCIE3: x4 mode) - 1 x PCI Express 2.0 x 1 slot (PCIE3: x4 mode) - 1 x PCI Express 2.0 x 1 slot (PCIE3: x4 mode) - 3 x PCI slots - Supports AMD Quad CrossFireX TM and CrossFireX TM
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® Oulck Sync Video 2.0, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Intel® HD Graphics 2500/4000. Pixel Shader 5.0, DirectX 11 with Intel® Iny Bridge CPU, Pixel Shader 4.1, DirectX 10.1 with Intel® Sandy Bridge CPU. Max. shared memory 1760MB - Three VGA Output options: D-Sub, DVt-D and HDMI - Supports HDMI 1.4a Technology with max resolution up to 1920x1200 @ 60Hz - Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz - Supports D-Sub with max. resolution up to 2048x1536 @ 75Hz - Supports D-D Ip Symc, Deep Color (172bp.), xYPCC and HBR (High Bit Rate Audio) with HDMI (Compilant HDMI monitor is required) - Supports HDP function with DVI and HDMI ports - Supports Full HD 1080p Biu-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 PC
Rear Panel I/O	I/O Panel - 1 x PS/2 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 - 6 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: 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), NCO, AHCI and Hot Plug functions - 2 x SATA3 6.0 Gb/s connectors by ASMedia ASM1061, support 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
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 ICR header - 1 x CR header - 1 x CR header - 1 x CMD port header - 1 x CMD port header - 1 x FMDMI, SPDIF header - 1 x FMDMI, SPDIF header - 1 x POWER LED header - 2 x POWER LED header - 2 x POWER LED header - 2 y LED header - 3 y LED head
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 Instant Flash - ASRock ASP Charger - ASRock Order - ASRock Order - ASRock Order - ASRock Order - Boot Order - Combo Cool Of Play Technology - Hydror - ASRock Order - ASRock Order - ASRock Crost Play Technology - Boot Failure Guard (B.F.G.) - Combo Cooler Option (C.C.O.) - Good Night LED
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-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	- Ouck Installation Guide, Support CD, I/O Shield - 2 x SATA Data Cables (Optional)
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Virtu Universal MVP - Uncompromised Game Response Performance



1. HyperFormance™:

A new technology which combines integrated and discrete graphics for uncompromised performance and get up to a 90% performance boost!

The performance boost percentage may vary with a different configuration.

- Virtu HyperFormance ON (discrete VGA+ integrated VGA)
- Virtu HyperFormance OFF (discrete VGA only)

3DMark11 (Extreme 1080p) - Graphics Score

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.



3. Switchable Graphics:

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







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

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.





