







































Intel® Rapid Start Technology

#### Product Brief

- 100% All Solid Capacitor Design
- Digi Power Design
- Supports Dual Channel DDR3 1600
- 1 x PCIe 3.0 x16 Slot, Supports AMD Quad CrossFireX™ and 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, UEFI System Browser, OMG, On/Off Play
- Supports Intel Smart Connect, Intel Rapid Start
- Free Bundle: CyberLink MediaEspresso 6.5 Trial, ASRock MAGIX Multimedia Suite

atible with		Detail Specific		
		Platform	1	- Mic

CPU











Supports 3<sup>st</sup> and 2<sup>st</sup> Generation Intel\* Core<sup>tts</sup> 17 / 15 / 13 in LGA1155 Package
Digl Power Design
4 + 2 Power Phase Design
Supports Intel\* Turbo Boost 2.0 Technology
Supports Intel\* Turbo Boost 2.0 Technology
Supports Intel\* Turbo Boost 2.0 Supports Intel\* Series Intel® 18 Supports Intel\* Series Intel® 18 Supports Intel\* Repla Start Technology and Smart Connect Technology with Intel® by Bridge CPU

Chipset - Intel® H77

Memory

Dual Channel DDR3 memory technology
4 x DDR3 DIMM slots
Supports DDR3 fe00/1333/1066 non-ECC, un-buffered memory
(DDR3 1600 with Intel® hy Bridge CPU, DDR3 1333 with Intel® Sandy Bridge CPU)
Max. capacity of system memory: 32GB
Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2

**Expansion Slot** 

1 x PCI Express 3.0 x16 slot (PCIE1: x16 mode)

1 PCIE 3.0 is only supported with Intel\* by Bridge CPU. With Intel\* Sandy Bridge CPU, it only supports PCIE 2.0

2 x PCI Express 2.0 x16 slots (PCIE3: x1 mode: PCIE4: x4 mode)

1 x PCI Express 2.0 x1 slot

Supports AMD Quad CrossFireX™ and CrossFireX™

**Graphics** 

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® Insider™ Intel® HD Graphics 2500/4000 Pixel Shader 5.0, DirectX 11 with Intel® Ivy Bridge CPU. Pixel Shader 4.1, DirectX 10.1 with Intel® Sandy Bridge CPU.

Pleas Situation 3.0.

Sandy Bridge CPU.

Max. shared memory 1760MB

Three VGA Duptat options: D-Sub, DVI-D and HDMI

Three VGA Duptat options: D-Sub, DVI-D and HDMI

Three VGA Duptat options: D-Sub, DVI-D and HDMI

Supports HDMI 1.4a Technology with max. resolution up to 1920x1200 @ 60Hz

Supports HDMI 1.4b Technology with max. resolution up to 2048x18x8 @ 75 Hz

Supports Auto Lip Symc Secondary to 12 2048x18x8 @ 75 Hz

Supports Auto Lip Symc Secondary

(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

7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec)
Premium Blu-ray audio support
Supports THX TruStudio<sup>TM</sup> Audio

PCIE x1 Gigabit LAN 10/100/1000 Mb/s Realtek RTL8111E LAN

Rear Panel I/O

SATA3

1 x HIDMI Fort
1 x Optical SPDIF Out Port
4 x Ready-to-Use USB 2.0 Ports
1 x eSATAS Connector
2 x Ready-to-Use USB 3.0 Ports
2 x Ready-to-Use USB 3.0 Ports
1 x RJ-415 LAN Port with LED (ACT/LINK LED and SPEED LED)
Un Audin Jack: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone

2 x SATA3 6.0 Gb/s connectors by Intel® H77, 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" function (SATA3\_AT connector is shared with eSATA3 port)

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 **USB 3.0** 

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 Connector

64Mb AMI UEFI Legal BIOS with GUI support Supports "Plug and Play" ACPI 1.1 Compilance Wake Up Events Supports lumperfree **BIOS Feature** 

ACPT-1:1 Compilative Wake Up Events
Supports jumperfree
SMBIOS 2.3.1 Support
CPU Core, IGPU, DRAM, 1.8V PLL, VTT, VCCSA Voltage Multi-adjustment

Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, ASRock MAGIX Multimedia Suite - OEM Support CD

**Unique Feature** 

- ASRock Extreme Tuning Utility (AXTU)
- ASRock Instant Boot
- ASRock Instant Flash
- ASRock APP Charger
- ASRock STP Charger
- ASRock STR Charger
- ASRock STR ST LAN
- ASRock XF ST LAN
- ASRock XF ST LAN
- ASRock XF ST LAN
- ASRock CANGO (Online Management Guard)
- ASRock OMG (Online Management Guard)
- Hybrid Booster:
- ASRock U-COP
- Boot Failure Guard (B.F.G.)
- Combe Cooler Option (C.C.O.)

**Hardware Monitor** 

OS

CPU Temperature Sensing
Chassis Temperature Sensing
Chassis Temperature Sensing
CPUI/Chassis/Power Fan Tachometer
CPUI/Chassis Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature)
CPUI/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 power supply is required)

Quick Installation Guide, Support CD, I/O Shield 2 x SATA Data Cables (Optional) Accessories

Intel® H77 Chipset













5X Faster for Photoshop Execution

XFast RAM will create a virtual disk from the system memory to boost the performance for Photoshop. It can even perform 5X faster than before.

The performance boost percentage may vary with a different configuration.



latency in the game after setting online game priority higher.



#### **Intel Smart Connect** Intel Rapid Start 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



# **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 H77 motherboard can provide CPU Vcore voltage more efficiently and smoothly.



#### **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 3<sup>rd</sup> 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**

UFFI 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.



### **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.



#### **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.

