

## Product Brief


- A-Style : Home Cloud, HDMI-In
- Gaming Armor
- CPU Power - Hi-Density Power Connector, DSM, MFC
- VGA Card - 15µ Gold Finger
- Cooling - 2oz copper PCB, Heat Pipe Design
- Internet - Intel LAN
- Audio - Creative Sound Core3D
- Supports 4th Gen Intel® Core™ i7 / i5 / i3 / Xeon® / Pentium® / Celeron® in LGA1150 Package
- Premium Gold Capacitor Design, Digi Power, 12 Power Phase Design
- Supports Dual Channel DDR3 2900+(OC)
- 3 PCIe 3.0 x16, 1 PCIe 2.0 x1, 1 mini-PCIe
- Supports AMD 3-Way CrossFireX, NVIDIA Quad SLI
- Dual-VGA Output Options : HDMI, DisplayPort
- Creative Sound Core3D 7.1 CH HD Audio, Supports SBX Pro Studio, Scout Mode, Premium Headset Amplifier
- Intel Dual Gigabit LAN with Teaming
- Supports A-Style, F-Stream, Key Master, XFast 555, Easy Driver Installer, FAN-Tastic Tuning, USB Key
- 10 x SATA3, 1 x eSATA, 8 x USB 3.0, 8 x USB 2.0 (1 x Fatal1ty Mouse Port)
- Free Bundle : XSplit 3 Months Premium License, 1 x Front USB 3.0 Panel with 2.5" HDD/SSD Rack, 1 x Rear USB 3.0 Bracket




## Detail Specification

<b>Platform</b>	- ATX Form Factor - Premium Gold Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)
<b>A-Style</b>	- Home Cloud - HDMI-In
<b>Gaming Armor</b>	<b>CPU Power</b> - Hi-Density Power Connector - Dual-Stack MOSFET (DSM) - Multiple Filter Cap (MFC) (Filter different noise by 3 different capacitors: DIP solid cap, POSCAP and MLCC) <b>VGA Card</b> - 15µ Gold Finger in VGA PCIe Slot (PCIe2) <b>Internet</b> - Intel® LAN <b>Cooling</b> - 2oz copper PCB - Heat Pipe Design <b>Audio</b> - Creative Sound Core3D
<b>CPU</b>	- Supports 4th Generation Intel® Core™ i7 / i5 / i3 / Xeon® / Pentium® / Celeron® in LGA1150 Package - Digi Power Design - 12 Power Phase Design - Supports Intel® Turbo Boost 2.0 Technology - Supports Intel® K-Series unlocked CPU - Supports ASRock BCLK Full-range Overclocking
<b>Chipset</b>	- Intel® Z87
<b>Memory</b>	- Dual Channel DDR3 memory technology - 4 x DDR3 DIMM slots - Supports DDR3 2933+(OC)/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 - Distortion-Free Slot
<b>Expansion Slot</b>	- 3 x PCI Express 3.0 x16 slots (PCIe2/PCIe3/PCIe4: single at x16 (PCIe2); dual at x8 (PCIe2) / x8 (PCIe3); triple at x8 (PCIe2) / x4 (PCIe3) / x4 (PCIe4)) - 1 x PCI Express 2.0 x1 slot - 1 x mini-PCI Express slot - 2 x PCI slots - Supports AMD Quad CrossFireX™, 3-Way CrossFireX™ and CrossFireX™ - Supports NVIDIA® Quad SLI™ and SLI™
<b>Graphics</b>	* 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 with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Insider™, Intel® HD Graphics 4400/4600 - Pixel Shader 5.0, DirectX 11.1 - Max. shared memory 1792MB - Dual VGA Output: support HDMI and DisplayPort ports by independent display controllers - Supports HDMI Technology with max. resolution up to 4K x 2K (4096x2304) @ 24Hz - Supports DisplayPort with max. resolution up to 4K x 2K (4096x2304) @ 24Hz - Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI (Compliant HDMI monitor is required) - Supports HDCP function with HDMI and DisplayPort ports - Supports Full HD 1080p Blu-ray (BD) playback with HDMI and DisplayPort ports
<b>Audio</b>	- 7.1 CH HD Audio - Creative Sound Core3D quad-core sound and voice processor - Supports SBX Pro Studio - Supports CrystalVoice - Supports Scout Mode - Supports EA1.0 to EA5.0 - Premium Headset Amplifier (PHA)
<b>LAN</b>	- Gigabit LAN 10/100/1000 Mb/s - 1 x Giga PHY Intel® I217V, 1 x GigaLAN Intel® I211AT - Supports Intel® Remote Wake Technology (on Intel® I217V) - Supports Wake-On-LAN - Supports Dual LAN with Teaming - Supports Energy Efficient Ethernet 802.3az - Supports PXE
<b>Rear Panel I/O</b>	- 1 x PS/2 Mouse/Keyboard Port - 1 x HDMI-Out Port - 1 x HDMI-In Port - 1 x DisplayPort - 1 x Optical SPDIF Out Port - 1 x eSATA Connector - 3 x USB 2.0 Ports - 1 x Fatal1ty Mouse Port (USB 2.0) - 4 x USB 3.0 Ports (ASMedia Hub) - 2 x RJ-45 LAN Ports with LED (ACT/LINK LED and SPEED LED) - 1 x Clear CMOS Switch - HD Audio Jack: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone


<b>Storage</b>	- 6 x SATA3 6.0 Gb/s connectors by Intel® Z87, support RAID (RAID 0, RAID 1, RAID 5, RAID 10, Intel Rapid Storage Technology 12 and Intel Smart Response Technology), NCQ, AHCI and Hot Plug - 4 x SATA3 6.0 Gb/s connectors by ASMedia ASM1061, support NCQ, AHCI and Hot Plug (SATA3_A4 connector is shared with the eSATA port) - 1 x eSATA connector by ASMedia ASM1061, supports NCQ, AHCI, Hot Plug and Port Multiplier
<b>Connector</b>	- 1 x IR header - 1 x COM port header - 1 x Power LED header - 2 x CPU Fan connectors (1 x 4-pin, 1 x 3-pin) - 3 x Chassis Fan connectors (1 x 4-pin, 2 x 3-pin) - 1 x Power Fan connector (3-pin) - 1 x 24 pin ATX power connector - 1 x 8 pin 12V power connector - 1 x SLI/XFire power connector - 1 x Front panel audio connector - 1 x SPDIF Out connector - 2 x USB 2.0 headers (support 4 USB 2.0 ports) - 2 x USB 3.0 headers (support 4 USB 3.0 ports) - 1 x Dr. Debug with LED - 1 x Power Switch with LED - 1 x Reset Switch with LED
<b>BIOS Feature</b>	- 2 x 64Mb AMI UEFI Legal BIOS with Multilingual GUI support (1 x Main BIOS and 1 x Backup BIOS) - Supports Secure Backup UEFI Technology - ACPI 1.1 Compliance Wake Up Events - SMBIOS 2.3.1 Support - CPU, DRAM, PCH 1.05V, PCH 1.5V Voltage Multi-adjustment
<b>Support CD</b>	- Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, Google Chrome Browser and Toolbar, Start8, MeshCentral, Splashtop Streamer, XSplit
<b>Unique Feature</b>	- ASRock F-Stream - ASRock Instant Flash - ASRock APP Charger - ASRock XFast USB - ASRock XFast LAN - ASRock XFast RAM - ASRock Crashless BIOS - ASRock OMG (Online Management Guard) - ASRock Internet Flash - ASRock UEFI System Browser - ASRock UEFI Tech Service - ASRock Dehumidifier Function - ASRock Easy RAID Installer - ASRock Easy Driver Installer - ASRock Interactive UEFI - ASRock Fast Boot - ASRock Restart to UEFI - ASRock USB Key - ASRock Key Master - ASRock Home Cloud - ASRock FAN-Tastic Tuning - Hybrid Booster: - CPU Frequency Stepless Control - ASRock U-COP - Boot Failure Guard (B.F.G.) - Good Night LED
<b>Hardware Monitor</b>	- CPU/Chassis Temperature Sensing - CPU/Chassis/Power 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
<b>OS</b>	- Microsoft® Windows® 8 / 8.64-bit / 7 / 7.64-bit compliant
<b>Certifications</b>	- FCC, CE, WHQL - ErP/EuP Ready (ErP/EuP ready power supply is required)
<b>Accessories</b>	- 1 x ASRock SLL Bridge_2S Card - Quick Installation Guide, Support CD, I/O Shield - 8 x SATA Data Cables - 2 x SATA 1 to 1 Power Cables - 1 x Front USB 3.0 Panel with 2.5" HDD/SSD Rack - 4 x HDD Screws - 6 x Chassis Screws - 1 x Rear USB 3.0 Bracket - 1 x WiFi Module Screw





HDMI-In

Connect your PC and another device to one monitor and toggle between the primary and secondary screen without replugging the connectors every time.








Home Cloud

### Intel® Ethernet

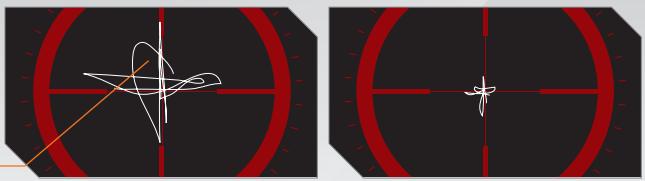
This motherboard supports remote wake with the onboard Intel LAN, so you can connect with your PC from anywhere in the world. You will be able to power your PC on or turn it off, monitor and take control of it remotely with another smartphone, tablet or computer.



Key Master

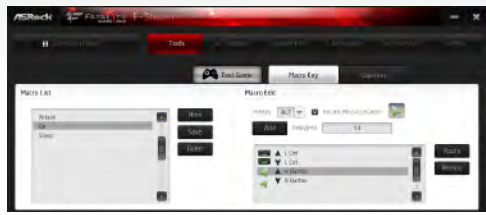
**Sniper Key** Use Sniper Key to shift the mouse speed when you're in sniper mode, it will greatly sharpen your accuracy.



Mouse Track

Without Sniper Key      With Sniper Key

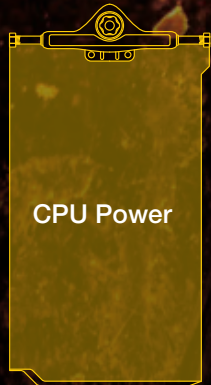
**Macro Key** Create your own set of keyboard hotkeys and macros with Macro Key to save the trouble.



Key Master consists of two major features, Sniper Key and Macro Key. It enhances your mouse and keyboard with customizable macros, sniper modes, key repeat rates and repeat delay.

# Gaming Armor

Enjoy The Pwnage



CPU Power



## Hi-Density Power Connector

Hi-Density Power Connectors can reduce 23% power loss and decrease the power connector's temperature up to 22°C.



## Dual-Stack MOSFET

By stacking two dies into one MOSFET, DSM provides larger die area and lower Rds(on), so the power supply for the CPU Vcore is more efficient.



## Multi Filter Caps

With the combined power of three kinds of capacitors, MFC allows users to overclock their PC rig to extreme levels without worrying about the hardware components.



## 15µ Gold Finger

Fatal1ty ASRock Z87 Professional Series provides 15µ gold components within the VGA PCIe slot for delivering triple performance than usual.



VGA



Internet



## Intel LAN

Intel® Gigabit LAN provides better performance, lower CPU utilization and enhances the stability of internet connections.



Audio



## Creative SoundCore 3D

The onboard Creative SoundCore 3D quad-core sound and voice processor brings truly immersive audio experiences to your ears.



Cooling



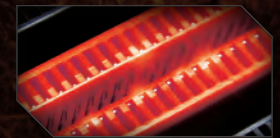
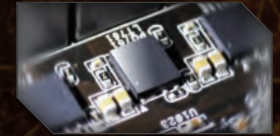
## Heat Pipe Design

Using the best materials for heat dissipation to keep your whole system ultra cool.



## 2oz Copper PCB

When overclocking, the 2 ounces of copper inner layers deliver lower temperature and higher energy efficiency.



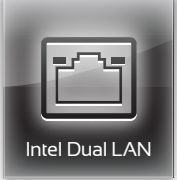

XSplit Broadcaster is a desktop application designed to make your multimedia broadcasting, live-streaming and recording a lot easier and more fun. We are giving the 3 month premium license for FREE! A US\$24.95 value!



Premium Gold Caps are 100% made in Japan; these solid capacitors are sleek, high gloss caps with a premium gold coating representing long life and stable performance.



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





The two Intel LAN ports and Teaming function on this motherboard allows two single connections to act as one single connection for twice the transmission bandwidth.







The onboard Creative SoundCore 3D quad-core sound and voice processor supports various technologies such as SBX Pro Studio, CrystalVoice, Scout Mode, EAX 1.0 to 5.0. It also comes with ASRock Premium Headset Amplifier (PHA) for up to 600 ohm high-end headsets, bringing truly immersive audio experiences to your ears.



After plugging a USB mouse into the Fatal1ty Mouse Port and running F-Stream, gamers can adjust their own preferred mouse polling rate from 125 Hz to 1000 Hz.




F-Stream is Fatal1ty's multi purpose software suite with a new interface, more new features and improved utilities, including XFast RAM, OC Tweaker and a whole lot more.




This motherboard comes with a front USB 3.0 panel which not only provides connection for 2 USB 3.0 ports but also serves as a 2.5" HDD/SDD rack.




ASRock's new pin design for the memory slots that effectively reduces distortion and promotes performance.




This motherboard supports Triple-Monitor. You may choose up to three display interfaces to connect monitors and use them simultaneously.



ASRock's unique XFast 555 technology (XFast RAM, XFast LAN and XFast USB) allows users to experience 5 times performance boost in terms of system performance, LAN speed and USB transfer speed.




Configure different fan speeds for respective temperatures using the graph. The fans will automatically shift to the next speed level when the assigned temperature is met.




For users that don't have an optical disk drive to install the drivers from our support CD, Easy Driver Installer is a handy tool in the UEFI that installs the LAN driver to your system via an USB storage device, then downloads and installs the other required drivers automatically.




Just plug in the USB Key and let your computer log in to windows automatically without having to type your username and password!




Contact ASRock Tech Service by sending a support request form from the UEFI setup utility if you are having trouble with your PC.




With ASRock's exclusive Fast Boot technology, it takes less than 1.5 seconds\* to logon to Windows 8 from a cold boot. No more waiting! The speedy boot will completely change your user experience and behavior. \*The boot time may vary with a different configuration.



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.



ASRock "Restart to UEFI" technology is designed for those requiring frequent UEFI access. It allows users to easily enter the UEFI SETUP automatically when turning on the PC next time.



Users may prevent motherboard damages due to dampness by enabling "Dehumidifier Function". When enabling Dehumidifier Function, the computer will power on automatically to dehumidify the system after entering S4/S5 state.