

## Product Brief

- Supports 4th Gen Intel® Core™ i7 / i5 / i3 / Xeon® / Pentium® / Celeron® in LGA1150 package
- 100% All Solid Capacitor design
- Supports Dual Channel DDR3 1600
- 1 x PCIe 2.0 x16, 5 x PCIe 2.0 x1
- Dual-VGA Output Options : D-Sub, HDMI
- Realtek Gigabit LAN
- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
- 2 x SATA3, 2 x SATA2, 2 x USB 3.0, 6 x USB 2.0 (4 x Front, 2 x Rear)
- Supports A-Tuning, XFast LAN, XFast RAM, Easy Driver Installer, FAN-Tastic Tuning, USB Key



Bitcoin Mining



All Solid Caps



Digi Power



A-Tuning



XFast LAN, XFast RAM



4 Power Phase Design



FAN-Tastic Tuning



USB Key



UEFI Tech Service



OMG

## Detail Specification

Platform	- ATX Form Factor - All Solid Capacitor design
CPU	- Supports 4th generation Intel® Core™ i7 / i5 / i3 / Xeon® / Pentium® / Celeron® in LGA1150 Package - Digi Power design - 4 Power Phase design - Supports Intel® Turbo Boost 2.0 Technology
Chipset	- Intel® H81
Memory	- Dual Channel DDR3 Memory Technology - 2 x DDR3 DIMM Slots - Supports DDR3 1600/1333/1066 non-ECC, un-buffered memory - Max. capacity of system memory: 16GB - Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2
Expansion Slot	- 1 x PCI Express 2.0 x16 Slot (PCIe2: x16 mode) - 5 x PCI Express 2.0 x1 Slots
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 with AVC, MVC (S3D) and MPEG-2 Full HW Encode, 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 Graphics Output: support HDMI and D-Sub ports by independent display controllers - Supports HDMI Technology with max. resolution up to 1920x1200 @ 60Hz - Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz - Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI Port (Compliant HDMI monitor is required) - Supports HDCP with HDMI Port - Supports Full HD 1080p Blu-ray (BD) playback with HDMI Port
Audio	- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
LAN	- PCIe x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111GR - Supports Realtek RealWoW! Technology - Supports Wake-On-LAN - Supports LAN Cable Detection - Supports Energy Efficient Ethernet 802.3az - Supports PXE
Rear Panel I/O	- 1 x PS/2 Mouse Port - 1 x PS/2 Keyboard Port - 1 x Serial Port: COM1 - 1 x Parallel Port (ECP/EPP support) - 1 x D-Sub Port - 1 x HDMI Port - 2 x USB 2.0 Ports - 2 x USB 3.0 Ports - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jack: Line in / Front Speaker / Microphone

Storage	- 2 x SATA3 6.0 Gb/s Connectors, support NCQ, AHCI and Hot Plug - 2 x SATA2 3.0 Gb/s Connectors, support NCQ, AHCI and Hot Plug
Connector	- 1 x IR Header - 1 x COM Port Header - 1 x Power LED Header - 1 x TPM Header - 2 x CPU Fan Connectors (1 x 4-pin, 1 x 3-pin) - 2 x Chassis Fan Connectors (1 x 4-pin, 1 x 3-pin) - 1 x Power Fan Connector (3-pin) - 1 x 24 pin ATX Power Connector - 1 x 8 pin 12V Power Connector - 2 x SLI/XFire Power Connectors - 1 x Front Panel Audio Connector - 1 x SPDIF Out connector - 2 x USB 2.0 Headers (Support 4 USB 2.0 ports)
BIOS Feature	- 32Mb AMI UEFI Legal BIOS with multilingual GUI support - ACPI 1.1 Compliant wake up events - SMBIOS 2.3.1 support - CPU, DRAM, PCH 1.05V Voltage multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar, Start8 (30 days trial)
Unique Feature	- ASRock A-Tuning - ASRock Instant Flash - ASRock APP Charger - ASRock XFast LAN - ASRock XFast RAM - ASRock Crashless BIOS - ASRock OMG (Online Management Guard) - ASRock Internet Flash - ASRock UEFI Tech Service - ASRock Dehumidifier - ASRock Easy Driver Installer - ASRock Interactive UEFI - ASRock Fast Boot - ASRock Restart to UEFI - ASRock USB Key - ASRock FAN-Tastic Tuning - Hybrid Booster: - ASRock U-COP - Boot Failure Guard (B.F.G.) - Good Night LED
Hardware Monitor	- CPU/Chassis temperature sensing - CPU/Chassis/Power Fan Tachometer - CPU Quiet Fan (Auto adjust chassis fan speed by CPU temperature) - CPU/Chassis Fan multi-speed control - Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore
OS	- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit
Certifications	- FCC, CE, WHQL - ErP/EuP ready (ErP/EuP ready power supply is required)
Accessories	- Quick Installation Guide, Support CD, I/O Shield - 2 x SATA Data Cables

## Bitcoin

The Best Bitcoin Mining Machine  
– H81 Pro BTC –

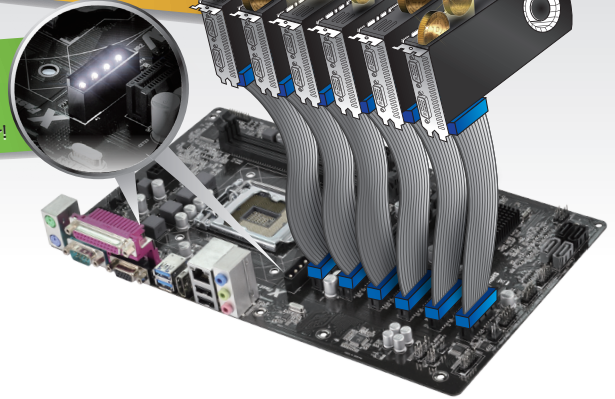


### Bitcoin Mining

This motherboard is specifically designed for mining Bitcoins, the revolutionary digital crypto-currency that may be used anywhere in the world. The abundant onboard PCIe slots guarantee fast GPU mining, while the additional power connectors provide advanced system stability while mining.

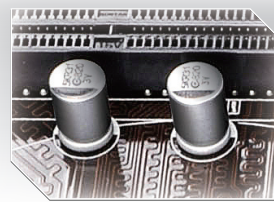
**1** PCIe 2.0x16 +  
**5** PCIe 2.0x1 slots  
For installing up to  
6 graphics cards

**2** Extra **4** pin  
power connectors  
Gain extra mining power!



### 4 Power Phase Design

Compared to other competitors' 3 Power Phase design, ASRock uses 4 Power Phase design and sturdy components for delivering smoother power to the CPU, thus enhancing the motherboard's performance at lower temperatures.



### All Solid Caps

All the capacitors on this board are built with 100% all solid capacitors. With these solid caps, ASRock motherboards are allowed to perform more stably and ensure longer lifetime.



### Digi Power

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



### A-Tuning

A-Tuning is ASRock'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.



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.



XFast LAN can lower latency in the game after setting online game priority higher.



### FAN-Tastic Tuning

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.



### USB Key

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



### UEFI Tech Service

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



### OMG

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.