79 Extreme7

Intel® X79 Chipset















Supports Intel* Core **M 17 processor family for the LGA 2011 Socket Digi Power Design Advanced V12 + 2 Power Phase Design Supports Intel* Turbo Boost 2.0 Technology Supports Hyper-Threading Technology Supports United Overclocking Technology CPU

Chipset Intel® X79

Quad Channel DDR3 memory technology
6 x DDR3 DIMM slots
Supports DDR3 2400+(OC)/1600/1333/1066/800 non-ECC, un-buffered memory
Supports DDR3 ECC, un-buffered memory with Intel* Workstation 1S Xeon* processors
E5 2xxx & 4xxx series in socket LGA 2011
Max. capacity of system memory: 48GB
Supports Intel* Extreme Memory Profile (XMP) 1.3 / 1.2 Memory

5 x PCI Express 3.0 x16 slots (PCIE1/PCIE2/PCIE3/PCIE4/PCIE5: x8/8/8/8/8 mode or x16/01/6/0/8 mode)
1 x PCI slot **Expansion Slot**

Supports AMD™ Quad CrossFireX™, 3-Way CrossFireX™ and CrossFireX™ Supports NVIDIA® Quad SLI™, 3-Way SLI™ and SLI™

7.1 CH HD Audio with Content Protection (Realtek ALC898 Audio Codec) Premium Blu-ray audio support Supports THX TruStudio $^{\rm TM}$ **Audio**

LAN

PCIE x1 Gigabit LAN 10/100/1000 Mb/s Broadcom BCM57781 Supports Wake-On-LAN Support Sergy Efficient Ethernet 802.3az Supports Dual LAN with Teaming function Supports PXE

I/O Panel

- 1 x PS/Z Mouse Port

- 1 x PS/Z Keyboard Port

- 1 x Coaxial SPDIF Out Port
- 1 x Coaxial SPDIF Out Port
- 1 x Copitcal SPDIF Out Port
- 6 x Ready-to-Use USB 2.0 Ports
- 1 x eSATA3 Connector
- 2 x Ready-to-Use USB 3.0 Ports
- 2 x R.-45 LAN Ports with LED (ACT/LINK LED and SPEED LED) Rear Panel I/O

2 x td. 45 LAN Ports with LED (ACT/LINK LED and SPEED LED)

1 x | EEE 1394 Port

1 x Clear CMOS Switch with LED

HD Audio Jack: Side Speaker / Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone

2 x SATA3 6.0 Gb/s connectors by Intel® X79, support RAID (RAID 0, RAID 1, RAID 5, RAID 10 and Intel Rapid Storage 3.0), NCO, AHCI and "Hot Plug" functions 2 x SATA3 6.0 Gb/s connectors by Marvell SE9182, support RAID (RAID 0 and RAID 1), NCO, AHCI and "Hot Plug" functions 3 x SATA3 6.0 Gb/s connectors by Marvell SE9172, support RAID (RAID 0 and RAID 1), NCO, AHCI and "Hot Plug" functions SATA3

2 x Rear USB 3.0 ports by ASMedia ASM1042, support USB 1.0/2.0/3.0 up to 5Gb/s 2 x Front USB 3.0 headers (support 4 USB 3.0 ports) by TI*, 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 and Intel Rapid Storage 3.0), NCO, AHCI and Hot Plug functions 7 x SATA3 6.0 Gb/s connectors 1 x IR header Connector

1 x IR header
1 x CIR header
1 x COM port header
1 x COM port header
1 x HDMI, SPDIF header
1 x IEEE 1394 header
1 x IEEE 1394 header
1 x IEEE 1394 header
24 pin ATX power connector
24 pin ATX power connector
SLIXFire power connector
SLIXFire power connector
3 x USB 2.0 headers (support 6 USB 2.0 ports)
2 x USB 3.0 headers (support 4 USB 3.0 ports)
1 x Dr. Debug with LED

Smart Switch

1 x Power Switch with LED
1 x Reset Switch with LED
1 x Clear CMOS Switch with LED

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, VCCSA, DRAM, VTT, CPU PLL, PCH1.1V, PCH1.5V Voltage Multi-adjustment

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

ASRock Extreme Tuning Utility (AXTU) **Unique Feature**

ASRock Instant Boot ASRock Instant Flash ASRock APP Charger

Hardware Monitor

ASRock APP Charger
ASRock Smart/lew
ASRock Smart/lew
ASRock XFast USB
ASRock XFast LAN
ASRock XFast Charger
ASRock XFast Charger
ASRock XFast RAM
ASRock XFAN
ASRock XFAN
CASROCK XFAN
ASROCK CASHIESS BIOS
Hybrid Booster:
- CPU Frequency Stepless Control
- ASRock U-COP
- Boot Failure Guard (B F G)

- Boot Failure Guard (B.F.G.) Good Night LED

CPU Temperature Sensing
Chassis Temperature Sensing
CPU/Chassis/Power/SB Fan Tachometer
CPU/Chassis Duiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature)
CPU/Chassis/SB 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 os

Certifications

FCC, CE, WHQL ErP/EuP Ready (ErP/EuP ready power supply is required)

Accessories

1 x ASRock SLI_Bridge_2S Card
1 x ASRock 3-Way SLI-2S15 Bridge Card
Oulck Installation Guide, Support CD, I/O Shield
6 x SATA Data Cables (Optionat)
2 x SATA 1 to 1 Power Cables (Optional)
1 x Front USB 3.0 Panel
4 x HDD Screws
6 x Chassis Screws
1 x Rear USB 3.0 Bracket



















Product Brief

- Premium Gold Caps (2.5 x longer life time), 100% Japan-made high-quality Conductive Polymer Capacitors
- Intel® Core™ i7 processor family for the LGA 2011 Socket
- Supports Quad Channel DDR3 2400+(OC) memory, 6 DIMM slots, Max capacity up to 48GB
- Digi Power Design, Advanced V12 + 2 Power Phase Design
- 5 x PCIe 3.0 x16 Slots, Supports AMD 3-Way CrossFireX[™] and NVIDIA® 3-Way SLI[™]
- Dr. Debug, Smart Switch Design: Power/Reset/Clear CMOS Switch with LED
- Supports ASRock X-FAN, XFast RAM, XFast LAN, XFast USB, XFast Charger, Graphical UEFI, UEFI System Browser, AXTU
- 7.1 CH HD Audio with Content Protection (Realtek ALC898 Audio Codec), Supports THX TruStudio™
- Free Bundle: CyberLink MediaEspresso 6.5 Trial, ASRock MAGIX Multimedia Suite

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www.asrock.com

Next-Gen PCIe 3.0 Support

By adopting PCI-E 3.0 quick switch IC onboard, the ASRock motherboards can support the Next-Gen PCI-E 3.0! PCI Express 3.0 can maximize the bandwidth for the next-gen PCI Express 3.0 VGA cards, provide ultimate graphics performance.





Get PCI-E 3.0 Benefits

- 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

PCI-E 2.0	5.0GT/s	500MB/s	80%
PCI-E architecture	Raw bit rate	Bandwidth per lane	Encoding Efficiency

PCI-E 3.0 requires both a supporting CPU and motherboard at the same time.

Currently Intel* Socket 2011 Sandy Bridge-E Processor doesn't support PCI-E 3.0, but this motherboard is already PCI-E 3.0 hardware ready it depends on Intel CPU to enable DCI-E 3.0 Please check Intel website for information on future CPU updates and releases.

XFast RAM Technology



5X Faster for Photoshop Execution



The XFast RAM will create a virtual disk from system memory to boost up the performance.

Fully Utilize Wasted Memory under 32bit OS



XFast RAM is part of ASRock Extreme Tuning Utility (AXTU). It fully utilizes the memory space that cannot be used under 32-bit OS.

Enhance Internet Surfing Experience



Exactly shortens the loading time of previously visited webpages, making web surfing faster than ever.

Extend SSD / HDD Lifespan



It will reduce the frequency of accessing your SSDs or HDDs in order to extend their

XFast LAN Technology



LAN Application Prioritization



You can configure your application priority ideally and/or add new programs.

Lower Latency In Game

594% Faster 1301 ms Time latency in World of Warcraft: Cataclysn ■ With XFast LAN ■ Without XFast LAN

After setting online game priority higher in XFast LAN, it can lower the latency in game.

Traffic Shaping



You can watch Youtube HD video and download files simultaneously.

Real-Time Analysis Of Your Data



With the status window, you can easily recognize which data streams you are currently transferring.

XFast Charger Technology



XFast Charger is the best and fastest technology to charge your mobile devices via PC. With the superb XFast Charger USB port, users are assured to enjoy the quick charging experience anytime. In addition to Apple devices, it is also capable of charging the BC 1.1 standard smar



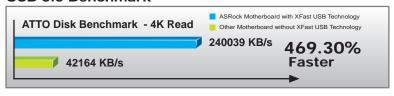




XFast USB Technology



USB 3.0 Benchmark





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Dual LAN Teaming

Dual LAN with Teaming function enabled on this motherboard allows two single connections to act as one single connection for twice the transmission bandwidth. making data transmission more effective.

Graphical UEFI

- * Graphical Visual Experience
- Mouse Enabling * Supports 3TB bootable HDD

The UEFI system browser can let you easily

UEFI System Browser

check your current system configuration in UEFI setup.

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.









THX TruStudio

Delivering the fullest audio experience for games, music and movies.

Cyberlink MediaEspresso 6.5 Trial

The fastest video media conversation software

MediaEspresso 6.5

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.



Digi Power

By adopting digital Pulse-width modulation (PWM), the ASRock Modulation (F-WWI), the ASROCK X79 Extreme7 can provide CPU Vcore voltage more efficiently and smoothly. Compared to analog PWM, Digi Power can optimize the CPU power solution and provide a proper and stable Vcore for the processor



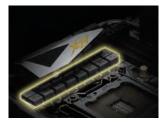
Premium Gold Caps

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



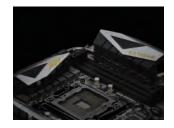
Advanced V12 + 2 Power Phase

The ASRock X79 Extreme7 is designed with a V12 + 2 Power Phase, featuring sturdy components and completely smooth power delivery to the CPU. It offers unmatched overclocking capability and enhanced performance with the lowest temperatures for PC gaming enthusiasts



Craftsman Heatsink Design

The ASRock X79 Extreme7 features a craftsman heatsink design. The metallic and minimalism look of the package brings the atmosphere of technology: On the other hand, the stylish brushed aluminum heatpipe design also ensures its effective heat dissipation.



X-FAN

ASRock X-FAN will be automatically activated only when the system rises to a certain temperature under heavy-loading. Normally, ASRock X-FAN will remain deactivated to give users the quietest computing experience.

