79 Extreme4 Intel[®] X79 Chipset















Premium Gold Cap



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)
- Digi Power, Advanced V6 + 2 Power Phase Design
- 3 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

	ASRock www.asrock.com
Detail Speci	fication
Platform	- ATX Form Factor: 12.0-in x 9.6-in, 30.5 cm x 24.4 cm - Premium Gold Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)
CPU	- Supports Intel [®] Core [™] i7 processor family for the LGA 2011 Socket - Digi Power Design - Advanced V6 + 2 Power Phase Design - Supports Intel [®] Turbo Boost 2.0 Technology - Supports Hyper-Threading Technology - Supports Untiled Overclocking Technology
Chipset	- Intel® X79

	Capacitors)
CPU	- Supports Intel [®] Core [™] i7 processor family for the LGA 2011 Socket - Digl Power Design - Advanced V6 + 2 Power Phase Design - Supports Intel [®] Turbo Boost 2.0 Technology - Supports Hyper-Threading Technology - Supports United Overclocking Technology
Chipset	- Intel® X79
Memory	Ouad Channel DDR3 memory technology 4 x DDR3 DIMM slots Supports DDR3 2400+(OC)/1600/1333/1066/800 non-ECC, un-buffered memory 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: 32CB Supports Intel* Extreme Memory Profile (XMP) 1.3 / 1.2
Expansion Slot	- 3 x PCI Express 3.0 x16 slots (PCIE1 @ x16 mode; PCIE3 @ x16 mode; PCIE4 @ x8 mode - 2 x PCI Express 2.0 x1 slots - 2 x PCI slots - Supports AMD™ Quad CrossFireX™, 3-Way CrossFireX™ and CrossFireX™ - Supports NVIDIA* Quad SLI™, 3-Way SLI™ and SLI™
Audio	 - 7.1 CH HD Audio with Content Protection (Realtek ALC898 Audio Codec) - Premium Biu-ray audio support - Supports THX TruStudio¹¹⁴
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Broadcom BCM57781 - Supports Wake-On-LAN - Supports Energy Efficient Ethernet 802.3az - Supports PXE
Rear Panel I/O	I/O Panel I/O Panel 1 X PS/2 Keyboard Port 1 X PS/2 Keyboard Port 1 X PS/2 Keyboard Port 1 X Coaxial SPDIF Out Port 1 X Coaxial SPDIF Out Port 4 Coaxial SPDIF Ut Port 5 X Ready-to-Use USB 3.0 Ports 1 X REATA3 Connector 2 X Ready-to-Use USB 3.0 Ports 1 X REATA3 Port 1 X ICEAr CMOS Switch with LED 1 X ICEAr CMOS Switch with LED 1 A Clear CMOS Switch with LED 1 A Clear CMOS Switch with LED 1 Microphone 1 X ICEAR SPONT 1 X REATA3 Connector 1 X ICEAR SPONT 1 X IC
SATA3	- 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), NCO, AHCI and "Hot Plug" functions - 3 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 by ASMedia ASM1042, 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) by ASMedia ASM1042, 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 and Intel Rapid Storage), NCO, AHC1 and Hot Plug functions - 5 x SATA3 6 0 Gb/s connectors - 1 x IR header - 1 x CIR header - 1 x COM port header - 1 x CIR header - 1 x EDPL Feader - 1 x IEEE 1394 header - 1 x IEEE 1394 header - 1 x IEEE Ta94 header - 2 PU/Chassis/Power/SB FAN connector - 2 dpin ATX power connector - 8 pin 12V power connector - 5LI/XFire power connector - Front panel audio connector - Front panel audio connector - Front panel audio connector - S u US 8 2.0 header (support 6 US 8 2.0 ports) - 1 x US 8 3.0 header (supports 2 US 8 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
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 APP Charger ASRock Arast USB ASRock XFast LAN ASRock XFast LAN ASRock XFast RAM ASRock XFast RAM ASRock XFast RAM ASRock X-FAN ASRock X-FAN ASRock X-FAN ASRock Crashless BIOS Hybrid Booster: -CPU Frequency Stepless Control -ASRock U-COP Boot Failure Guard (B.F.G.) Good Night LED
Hardware Monitor	CPU Temperature Sensing Chassis Temperature Sensing Churchassis Temperature Sensing CPU/Chassis/Power/SB Fan Tachometer CPU/Chassis/Quer/SB Fan Autor Adjust by CPU Temperature) CPU/Chassis/SB 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	- 1 x ASRock SLL_Bridge_2S Card - 1 x ASRock 3-Way SLI-251S Bridge Card - Ouck Installation Guide, Support CD, I/O Shield - 4 x SATA Data Cables (Optional)

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.





• 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

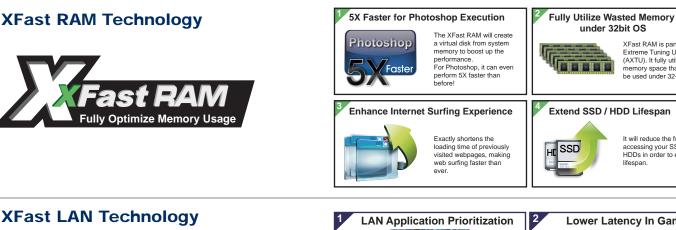
PCI-E architecture	Raw bit rate	Bandwidth per lane	Encoding Efficiency
PCI-E 2.0	5.0GT/s	500MB/s	80%
PCI-E 3.0	8.0GT/s	1GB/s	98.5%

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

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

lifespan.

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 PCI-E 3.0. Please check Intel website for information on future CPU updates and releases.



XFast LAN Technology



1 LAN Application Prioritization Image: state	2 Lower Latency In Game 219 ms 594% Faster 1301 ms Time latency in World of Warcraft: Cataclysm With XFast LAN Without XFast LAN After setting online game priority higher in XFast LAN it can lower the latency in game.
3 Traffic Shaping	4 Real-Time Analysis Of Your Data
You can watch Youtube HD video and download files simultaneously.	With the status window, you can easily recognize which data streams you are currently transferring.

XFast Charger Technology

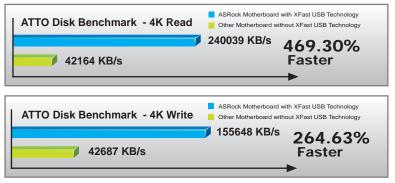




XFast USB Technology



USB 3.0 Benchmark







Graphical UEFI

* Graphical Visual Experience

* Mouse Enabling * Supports 3TB bootable HDD



UEFI System Browser

The UEFI system browser can let you easily check your current system configuration in UEFI setup.



THX TruStudio

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



ΑΧΤυ

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.

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	CHASSIS FANT	
	Tearbase 1990 -	
Votore Dava	CHASSIS FANT	
	Target Based A.P. Tat.	
	CHASSIS FAN1	
Options		
	Targe Samer LEVELS	





Digi Power

By adopting digital Pulse-width modulation (PWM), the ASRock X79 Extreme4 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.

Advanced V6 + 2 Power Phase

The ASRock X79 Extreme4 is designed with a V6 + 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.

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.

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.







