

# X79 Professional

Intel® X79 Chipset



## Product Brief

- Premium Gold Caps (2.5 x longer life time), 100% Japan-made high-quality Conductive Polymer Capacitors
- Digi Power Design, 16+ 2 Power Phase Design
- Supports Quad Channel DDR3 2600+(OC)
- 4 x PCI-E 3.0 x16 slots, supports AMD 4-Way CrossFireX™, NVIDIA® 4-Way SLI™
- Dr. Debug, Smart Switch Design: Power/Reset/Clear CMOS Switch with LED
- 8 x USB 3.0 (4 Front, 4 Back), 6 x SATA3, 1 x Fatal1ty Mouse Port (USB 2.0)
- Supports Fatal1ty XFast USB, XFast RAM, XFast LAN, XFast Charger
- Supports Fatal1ty F-Stream, Graphical UEFI, UEFI System Browser, APP Charger, SmartView
- 7.1 CH HD Audio with Content Protection (Realtek ALC898 Audio Codec), Supports THX TruStudio™
- Free Bundle : 1 x Front USB 3.0 Panel, CyberLink MediaEspresso 6.5 Trial, MAGIX Multimedia Suite

## Detail Specification

<b>Platform</b>	- 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)
<b>CPU</b>	- Supports Intel® Core™ i7 processor family for the LGA 2011 Socket - Digi Power Design - 16 + 2 Power Phase Design - Supports Intel® Turbo Boost 2.0 Technology - Supports Hyper-Threading Technology - Supports Unlocked Overclocking Technology
<b>Chipset</b>	- Intel® X79
<b>Memory</b>	- Quad Channel DDR3 memory technology - 4 x DDR3 DIMM slots - Supports DDR3 2600+(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, un-buffered memory - Supports DDR3 ECC, un-buffered memory with Intel® Workstation 1S Xeon® processors E5 16xx/26xx/46xx series in socket LGA 2011 - Max. capacity of system memory: 32GB - Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2
<b>Expansion Slot</b>	- 4 x PCI Express 3.0 x16 slots (PCI-E1/PCI-E2/PCI-E4/PCI-E5: x16/8/16/0 mode or x16/8/8/8 mode) - 1 x PCI Express 2.0 x1 slot - 2 x PCI slots - Supports AMD Quad CrossFireX™, 4-Way CrossFireX™, 3-Way CrossFireX™ and CrossFireX™ - Supports NVIDIA® Quad SLI™, 4-Way SLI™, 3-Way SLI™ and SLI™
<b>Audio</b>	- 7.1 CH HD Audio with Content Protection (Realtek ALC898 Audio Codec) - Premium Blu-ray audio support - Supports THX TruStudio™
<b>LAN</b>	- PCI-E x1 Gigabit LAN 10/100/1000 Mb/s - Broadcom BCM57781 - Supports Wake-On-LAN - Supports Energy Efficient Ethernet 802.3az - Supports PXE
<b>Rear Panel I/O</b>	I/O Panel - 1 x PS/2 Keyboard Port - 1 x Coaxial SPDIF Out Port - 1 x Optical SPDIF Out Port - 5 x Ready-to-Use USB 2.0 Ports - 1 x Fatal1ty Mouse Port (USB 2.0) - 2 x eSATA3 Connectors - 4 x Ready-to-Use USB 3.0 Ports - 1 x RJ-45 LAN Ports with LED (ACT/LINK LED and SPEED LED) - 1 x IEEE 1394 Port - 1 x Clear CMOS Switch with LED - HD Audio Jack: Side Speaker / Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone
<b>SATA3</b>	- 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), NCQ, AHCI and "Hot Plug" functions - 4 x SATA3 6.0 Gb/s connectors by Marvell SE9172, support RAID (RAID 0 and RAID 1), NCQ, AHCI and "Hot Plug" functions
<b>USB 3.0</b>	- 4 x Rear USB 3.0 ports by TI®, 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®, support USB 1.0/2.0/3.0 up to 5Gb/s
<b>Connector</b>	- 4 x SATA3 3.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 5, RAID 10 and Intel Rapid Storage 3.0), NCQ, AHCI and Hot Plug functions - 6 x SATA3 6.0 Gb/s connectors - 1 x IR header - 1 x CIR header - 1 x COM port header - 1 x HDMI_SPDIF header - 1 x IEEE 1394 header - 1 x Power LED header - CPU/Chassis/Power connectors - 24 pin ATX power connector - 8 pin 12V power connector - SLI/XFire power connector - Front panel audio 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
<b>Smart Switch</b>	- 1 x Power Switch with LED - 1 x Reset Switch with LED - 1 x Clear CMOS Switch with LED
<b>BIOS Feature</b>	- 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
<b>Support CD</b>	- Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, ASRock Software Suite (ASRock MAGIX Multimedia Suite - OEM)
<b>Unique Feature</b>	- F-Stream - ASRock Instant Boot - ASRock Instant Flash - ASRock APP Charger - ASRock SmartView - ASRock XFast USB - ASRock XFast LAN - ASRock XFast Charger - ASRock XFast RAM - ASRock Crashless BIOS - Hybrid Booster: - CPU Frequency Stepples Control - ASRock U-COP - Boot Failure Guard (B.F.G.) - Good Night LED
<b>Hardware Monitor</b>	- CPU Temperature Sensing - 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® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit compliant
<b>Certifications</b>	- FCC, CE, WHQL - ErP/EuP Ready (ErP/EuP ready power supply is required)
<b>Accessories</b>	- 2 x ASRock SLI_Bridge Cards - 1 x ASRock SLI_Bridge_3S Card - 1 x ASRock 3-Way SLI Bridge Card - Quick Installation Guide, Support CD, I/O Shield - 6 x SATA Data Cables (Optional) - 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

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**ASRock**  
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## Digi Power

By adopting digital Pulse-width modulation (PWM), the Fatal1ty X79 Professional 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.



## 16+2 CPU Power Phase

To improve CPU power solution, this board is designed with the advanced 16+2 power phase design which signatures tough components and smooth power delivery to the CPU. The Fatal1ty X79 Professional Series offers unmatched overclocking capability and enhanced performance with the lowest temperatures for PC enthusiasts.



## Fatal1ty Mouse Port

Fatal1ty Mouse Port is a customizable technology for PC gamers that is a part of F-Stream. After plugging the USB mouse into the Fatal1ty Mouse Port and running F-Stream, gamers can use Fatal1ty's personal preferred mouse polling rate at 500 Hz. F-Stream also provides the flexibility for gamers to adjust the mouse polling rate from 125 Hz to 1000 Hz. This is helpful for professional gamers to experience smoother gameplay and faster response time to the mouse.



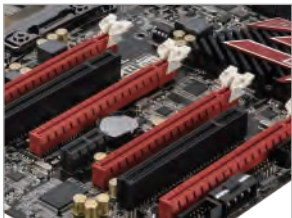
## Premium Gold Caps

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



## PCI-E 3.0 slots - Support 4-Way SLI™, 4-Way CrossFireX™

The board comes with 4 x PCI-E 3.0 slots supporting Nvidia® 4-Way SLI™ and AMD 4-Way CrossFireX™. PCI Express 3.0 slots maximize the bandwidth for the next-gen PCI Express 3.0 VGA cards, provide ultimate graphics performance.



Note:  
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.

## UEFI System Browser

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



## F-Stream

The Fatal1ty F-Stream tuning program is an all-in-1 software utility that supports overclocking and hardware tuning such as energy usage, H/W monitor, fan speed control, Fatal1ty Mouse Port Configuration and XFast RAM.



## XMP 1.3 Support

XMP 1.3 provides more precise DRAM timing settings! Simply load XMP 1.3 profile in the BIOS to explore the maximum speed of your DDR3 memory. For unbelievably powerful overclocking without having to adjust the settings in BIOS manually, the rig builder should look no longer than the XMP 1.3 support!



## Broadcom Gigabit LAN

Equipped with Broadcom Gigabit Ethernet Controller (BCM57781), the Fatal1ty X79 Professional provides top-class computing experience with increased wire-speed performance and low power consumption.



## THX TruStudio™

THX TruStudio is specially designed to bring the same great audio experience found in live performances, films, and recording studios to the PC.



## 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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## XFast RAM Technology



### • 5X Faster for Photoshop Execution



The XFast RAM will create a virtual disk from system memory to boost up the performance. For Photoshop, it can even perform 5X faster than before!

### • Fully Utilize Wasted Memory under 32bit OS



XFast RAM is part of Fatal1ty F-Stream. 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 lifespan.

## XFast LAN Technology

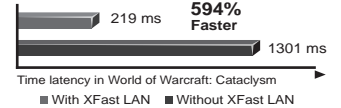


### • LAN Application Prioritization



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

### • Lower Latency In Game



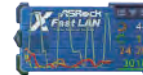
After setting online game priority higher in XFast LAN, it can lower the latency in game.

### • 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 smart devices.



## XFast USB Technology



### USB 3.0 Benchmark

