X79 Professional
Intel® X79 Chipset

FATAL1TY GAMING GEAR

ASRock® www.asrock.com

Compatible with Windows®7

intel® CHIPSET X79 inside™

Supports intel® inside™ CORE™ i7

Supports intel® inside™ CORE™

PCI-E 3.0

X79 PROFESSIONAL

Digi Power RAM Design

SYSTEM BROWSER

Trial MediaEspresso 6.5

XFast Charger Fast Charge & Charge Anytime

XFast RAM Fully Optimize Memory Usage

XFast LAN Faster Internet Access

XFast USB Boosts up your USB speed

Fatal1ty Mouse Port

Premium Gold Caps 2.5x Life Time

Detail Specification

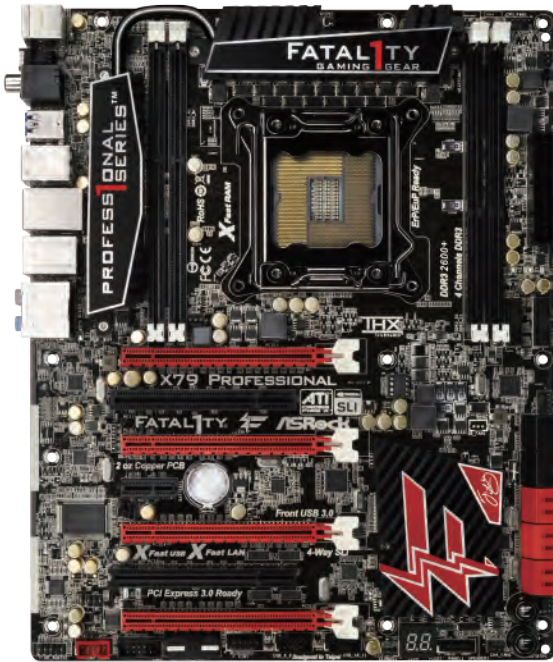|	
Platform	- ATX Form Factor: 12.0-in x 9.6-in, 30.5 cm x 24.4 cm - Premium Gold Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)
CPU	- Supports Intel® Core™ i7 processor family for the LGA 2011 Socket - Digi Powr Design - 16 + 2 Power Phase Design - Supports Intel® Turbo Boost 2.0 Technology - Supports Hyper-Threading Technology - Supports Untied Overclocking Technology
Chipset	- Intel® X79
Memory	- 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
Expansion Slot	- 4 x PCI Express 3.0 x16 slots (PCIE1/PCIE2/PCIE4/PCIE5: 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™
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC898 Audio Codec) - Premium Blu-ray audio support - Supports THX TruStudio™
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 - 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
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 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
USB 3.0	- 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
Connector	- 4 x SATA2 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
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 Software Suite (ASRock MAGIX Multimedia Suite - OEM)

Unique Feature	- 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 Stepless Control
	  - ASRock U-COP
	  - Boot Failure Guard (B.F.G.)
	- Good Night LED

Hardware Monitor	- 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
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	- 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

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 Swith 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

FATAL1TY.COM

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.
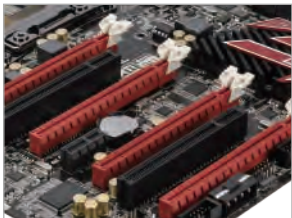
Premium Gold Caps

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.

PCIE 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.

XFast RAM Technology

XFast RAM
Fully Optimize Memory Usage

● **5X Faster for Photoshop Execution**

Photoshop 5X Faster

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.
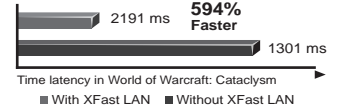
XFast LAN Technology

XFast LAN
Faster Internet Access

● **LAN Application Prioritization**

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

● **Lower Latency In Game**
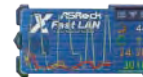
2191 ms **594% Faster**
1301 ms

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.

● **Traffic Shaping**

You Tube HD

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
Fast Charge & Charge Anytime

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.

BC 1.1 Standard

XFast USB Technology

XFast USB
Boosts up your USB speed

USB 3.0 Benchmark

ATTO Disk Benchmark - 4K Read
■ ASRock Motherboard with XFast USB Technology
■ Other Motherboard without XFast USB Technology

240039 KB/s **469.30% Faster**
42164 KB/s

ATTO Disk Benchmark - 4K Write
■ ASRock Motherboard with XFast USB Technology
■ Other Motherboard without XFast USB Technology

155648 KB/s **264.63% Faster**
42687 KB/s