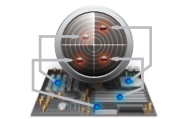


# X79 Champion

Intel® X79 Chipset



**ASRock**  
www.asrock.com



Post Status Checker (PSC)

HyperDuo Plus™ Technology

V-Probe

## Product Brief

- Premium Gold Caps (2.5 x longer life time), 100% Japan-made high-quality Conductive Polymer Capacitors
- Digi Power Design, 12+ 2 Power Phase Design
- Supports Quad Channel DDR3 2500+(OC)
- Supports Dual-Stack MOSFET (DSM)
- 5 x PCI-E 3.0 x16 slots, supports AMD 4-Way CrossFireX™, NVIDIA® 4-Way SLI™
- Creative Sound Core3D 7.1 CH HD Audio, Supports Premium Headset Amplifier (PHA)
- Broadcom PCIE Dual LAN with Teaming Function
- 12 x USB 3.0 (4 Front, 8 Back), 6 x SATA3, 1 x Fatal1ty Mouse Port (USB 2.0), 1 x Post Status Checker (PSC)
- Supports Fatal1ty XFast RAM, XFast LAN, XFast USB, OMG, Internet Flash, HyperDuo Plus
- Free Bundle : 1 x Front USB 3.0 Panel, 1 x Rear USB 3.0 Bracket, CyberLink MediaEspresso 6.5 Trial, MAGIX Multimedia Suite

## Detail Specification

<b>Platform</b>	- CEB Form Factor: 12.0-in x 10.5-in, 30.5 cm x 26.7 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 - 12+ 2 Power Phase Design - Dual-Stack MOSFET (DSM) - Supports Intel® Turbo Boost 2.0 Technology - Supports Hyper-Threading Technology - Supports Untied Overclocking Technology
<b>Chipset</b>	- Intel® X79
<b>Memory</b>	- Quad Channel DDR3 memory technology - 8 x DDR3 DIMM slots - Supports DDR3 2500+(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: 64GB - Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2
<b>Expansion Slot</b>	- 5 x PCI Express 3.0 x16 slots (PCI-E1/PCI-E5: x16/16 mode; PCI-E1/PCI-E3/PCI-E5: x16/8/8 mode; PCI-E1/PCI-E4/PCI-E7: x16/8/8 mode; PCI-E1/PCI-E3/PCI-E5/PCI-E7: x16/8/8/8 mode) - 2 x PCI Express 2.0 x1 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 - Creative Sound Core3D quad-core sound and voice processor - Supports THX TruStudio™ PRO - Supports CrystalVoice - Supports Scout Mode - Supports EAX1.0 to EAX5.0 - Premium Headset Amplifier (PHA)
<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 Dual LAN with Teaming function - Supports PXE
<b>Rear Panel I/O</b>	I/O Panel - 1 x PS/2 Keyboard Port - 1 x Optical S/PDIF Out Port - 1 x Ready-to-Use USB 2.0 Port - 1 x Fatal1ty Mouse Port (USB 2.0) - 2 x eSATA3 Connectors - 8 x Ready-to-Use USB 3.0 Ports - 2 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: 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), NCO, AHCI and "Hot Plug" functions - 4 x SATA3 6.0 Gb/s connectors by Marvell SE9230, support RAID (RAID 0, RAID 1 and RAID 10), NCO, AHCI and "Hot Plug" functions
<b>USB 3.0</b>	- 8 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 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 - 6 x SATA3 6.0 Gb/s connectors - 1 x IR header - 1 x CIR header - 1 x COM port header - 1 x HDMI_S/PDIF header - 1 x IEEE 1394 header - 1 x Power LED header - 1 x V-Probe™: 7-set of onboard voltage measurement points laid - CPU/Chassis/Power Fan connectors - 24 pin ATX power connector - 8 pin 12V power connector - SLIXFire 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 - 1 x Post Status Checker (PSC)
<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 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 RAM - ASRock Crashless BIOS - ASRock OMG (Online Management Guard) - ASRock Internet Flash - ASRock HyperDuo Plus Technology - Hybrid Booster: - CPU Frequency Stepless 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 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 - 1 x ASRock 3-Way SLI-2S2S 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

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.

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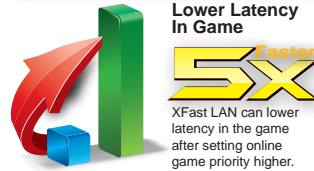
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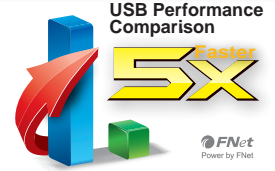
### 5X Faster for Photoshop Execution

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.

\* The performance boost percentage may vary with a different configuration.



Time latency in World of Warcraft: Cataclysm  
\*Lower is better  
■ ASRock Motherboard with XFast LAN  
■ Other Motherboard without XFast LAN



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

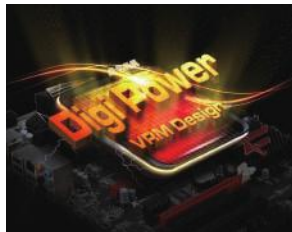
## 12 + 2 Power Phase Design

To improve CPU power solution, this board is designed with the advanced 12+2 power phase design which signatures tough components and smooth power delivery to the CPU. The Fatal1ty X79 Champion Series offers unmatched overclocking capability and enhanced performance with the lowest temperatures for PC enthusiasts.



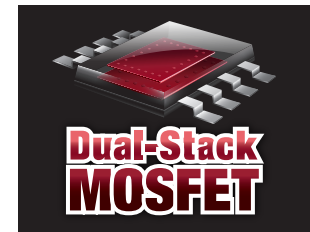
## Digi Power

By adopting digital Pulse-width modulation (PWM), the X79 motherboard can provide CPU Vcore voltage more efficiently and smoothly.



## Dual-Stack MOSFET (DSM)

Dual-Stack MOSFET (DSM) is an innovative new design of MOSFETs. The silicon die area is increased by stacking two dies into a MOSFET. The larger the die area, the lower Rds(on). Compared to traditional discrete MOSFET, DSM can provide larger die area and lower Rds(on), so the power supply for CPU Vcore is more efficient.



## Creative Sound Core3D Audio with Premium Headset Amplifier

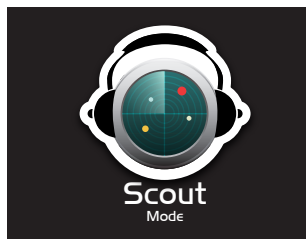
The onboard Creative SoundCore 3D quad-core sound and voice processor brings a truly immersive audio experience and supports THX TruStudio PRO™, CrystalVoice, EAX 1.0 to 5.0, etc. ASRock Premium Headset Amplifier (PHA) provides wider bandwidth, higher slew rate with lower noise and distortion. It also supports up to 250 Ohm high-end headsets, which delivers crisper audio into the users ears.  
(Note: PHA is only supported with front audio)



## Scout Mode™

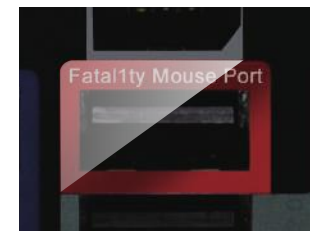
- Hear the enemy before they hear you -

Scout Mode™ technology is a proprietary technology that allows you to hear your enemies from further away, giving you a distinct tactical advantage in combat.



## Fatal1ty Mouse Port

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



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## Premium Gold Caps 8 x DDR3 2500+(OC)

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

Fatal1ty X79 Champion has 8 DIMM slots for Quad-Channel memory, supporting for 2500+(OC) MHz DDR3 memory!



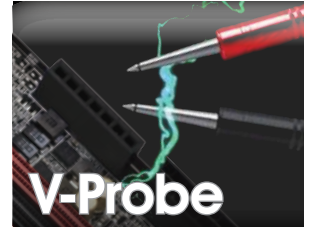
## HyperDuo Plus™ Technology

Get 14X Faster Performance! Equipped with Marvell SE9230 controller, Fatal1ty X79 Champion supports HyperDuo Plus™ Technology. While the SSD and HDD are connected, HyperDuo Plus™ makes the SSD become the cache of the HDD and delivers SSD-like performance.



## V-Probe™

V-Probe™ is a 7-set of detection points laid on the Fatal1ty X79 Champion. It allows overclockers to easily and quickly get the accurate voltage readings via the multimeter.

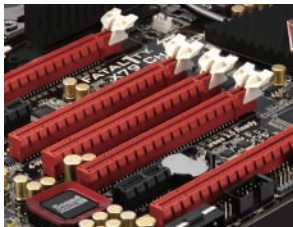


## PCI-E 3.0 x16 Slots – Support 4-Way SLI, 4-Way CrossFireX

PCI Express 3.0 slots maximize the bandwidth for the next-gen PCI Express 3.0 VGA cards and provide ultimate graphics performance. The Fatal1ty X79 Champion comes with 5 PCI-E 3.0 slots supporting NVIDIA 4-Way SLI and AMD 4-Way CrossFireX.

## 12 USB 3.0 (4 Front, 8 Back) + 6 SATA3

Rich storage options! Fatal1ty X79 Champion offers 12 USB 3.0 (4 from onboard headers, 8 from rear I/O) and 6 SATA3 connectors to satisfy PC DIYer's various needs.



## 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.

## UEFI System Browser

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



## Post Status Checker (PSC)

Post Status Checker (PSC) diagnoses the computer when users power on the machine. It emits a red light to indicate whether the CPU, memory, VGA or storage is dysfunctional. The lights go off if the four mentioned above are functioning normally.

## ASRock OMG (Online Management Guard)

Fast, Easy and Free – 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.

## Internet Flash

Internet Flash searches for available UEFI firmware updates from ASRock servers. System can auto-detect the latest UEFI from our servers and flash them within UEFI setup without entering Windows® OS.

## Broadcom Dual LAN

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.

