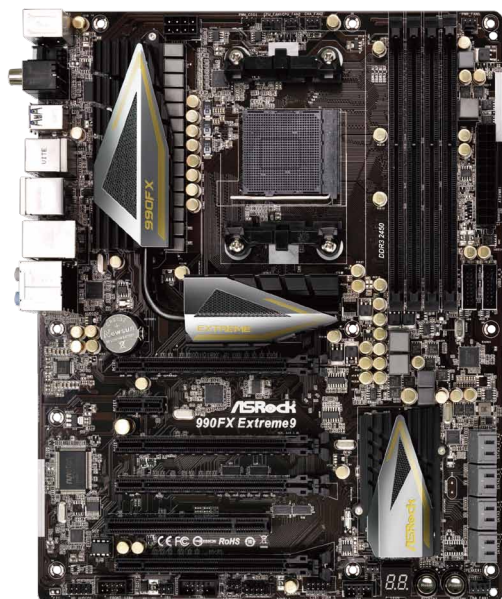


# 990FX Extreme9

AMD 990FX + SB950 Chipsets

**ASRock**  
www.asrock.com



X-Boost

Digi Power

Advanced 12 + 2 Power Phase



Multiple Filter Cap (MFC)

Dual-Stack MOSFET

Premium Gold Caps

Intel Gigabit LAN

## Product Brief

- Premium Gold Caps, Multiple Filter Cap
- Supports Dual-Stack MOSFET (DSM), Digi Power, 12 + 2 power phase design
- Supports AM3+ Processor, 8-Core CPU
- Supports Dual Channel DDR3 2450(OC)
- 4 PCIe 2.0 x16 Slots, Support NVIDIA 3-Way SLI, AMD 3-Way CrossFireX™
- 8 x SATA3, 2 x eSATA3, 8 x USB 3.0, 8 x USB 2.0
- Supports Hi-Density Power Connector
- Intel Gigabit LAN
- Supports ASRock X-Boost, XFast 555, Fast Boot, Restart to UEFI, Dehumidifier, OMG, Internet Flash, Easy RAID Installer
- 7.1 CH HD Audio with Content Protection (Realtek ALC898 Audio Codec), supports THX TruStudio™
- Free Bundle : CyberLink MediaEspresso 6.5 Trial, Google Chrome Browser and Toolbar, 1 x Front USB 3.0 Panel with 2.5" HDD/SSD Rack

## Detail Specification

<b>Platform</b>	- ATX Form Factor - Premium Gold Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors) - Multiple Filter Cap (MFC) (Filter different noise by 3 different capacitors: DIP solid cap, POSCAP and MLCC)
<b>CPU</b>	- Support for Socket AM3+ processors: AMD Phenom™ II X6 / X4 / X3 / X2 (except 920 / 940) / Athlon II X4 / X3 / X2 / Sempron processors - Supports 8-Core CPU - Supports UCC feature (Unlock CPU Core) - Digi Power Design - Advanced 12 + 2 Power Phase Design - Dual-Stack MOSFET (DSM) - Supports CPU up to 220W - Supports AMD's Cool 'n' Quiet Technology - FSB 2600 MHz (5.2 GT/s) - Supports Untied Overclocking Technology - Supports Hyper-Transport 3.0 (HT 3.0) Technology
<b>Chipset</b>	- Northbridge: AMD 990FX - Southbridge: AMD SB950
<b>Memory</b>	- Dual Channel DDR3 memory technology - 4 x DDR3 DIMM slots - Supports DDR3 2450(OC)/2100(OC)/1600/1333/1066 non-ECC, un-buffered memory - Max. capacity of system memory: 64GB - Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2 - Supports AMD Memory Profile (AMP)
<b>Expansion Slot</b>	- PCI Express 2.0 x 16: 3 (x16 / x16 / 0 or x16 / x8 / x8) 1 (x4 mode) - 1 x PCI Express 2.0 x1 slot - 1 x PCI slot - Supports AMD Quad CrossFireX™, 3-Way CrossFireX™ and CrossFire™ - Supports NVIDIA® Quad 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>	- PCIe x1 Gigabit LAN 10/100/1000 Mb/s - Intel® 82583V - Supports Wake-On-LAN - Supports PXE
<b>Rear Panel I/O</b>	I/O Panel - 1 x PS/2 Mouse Port - 1 x PS/2 Keyboard Port - 1 x Coaxial SPDIF Out Port - 1 x Optical SPDIF Out Port - 4 x Ready-to-Use USB 2.0 Ports - 4 x Ready-to-Use USB 3.0 Ports - 2 x eSATA3 Connectors - 1 x RJ-45 LAN Port 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>	- 6 x SATA3 6.0 Gb/s connectors by AMD SB950, support RAID (RAID 0, RAID 1, RAID 0+1, JBOD and RAID 5), NCQ, AHCI and "Hot Plug" functions - 2 x SATA3 6.0 Gb/s connectors by ASMedia ASM1061, support NCQ, AHCI and "Hot Plug" functions
<b>USB 3.0</b>	- 4 x Rear USB 3.0 ports by Etron EJ188H, support USB 1.1/2.0/3.0 up to 5Gb/s - 2 x Front USB 3.0 headers (support 4 USB 3.0 ports) by Etron EJ188H, support USB 1.1/2.0/3.0 up to 5Gb/s
<b>Connector</b>	- 8 x SATA3 6.0 Gb/s connectors - 1 x IR header - 1 x CIR header - 1 x COM port header - 1 x IEEE 1394 header - 1 x Power LED header - 2 x CPU Fan connectors (1 x 4-pin, 1 x 3-pin) - 3 x Chassis Fan connectors (1 x 4-pin, 2 x 3-pin) - 1 x Power Fan connector (3-pin) - 24 pin ATX power connector - 8 pin 12V power connector (Hi-Density Power Connector) - Front panel audio connector - 2 x USB 2.0 headers (support 4 USB 2.0 ports) - 2 x USB 3.0 headers (support 4 USB 3.0 ports) - 1 x Dr. Debug (7-Segment Debug LED) - 1 x Power Switch with LED - 1 x Reset Switch with LED
<b>BIOS Feature</b>	- 32Mb 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, VCCM, NB, SB Voltage Multi-adjustment
<b>Support CD</b>	- Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, Google Chrome Browser and Toolbar
<b>Unique Feature</b>	- ASRock Extreme Tuning Utility (AXTU) - ASRock Instant Boot - ASRock Instant Flash - ASRock APP Charger - ASRock XFast USB - ASRock XFast LAN - ASRock XFast RAM - ASRock Crashless BIOS - ASRock OMG (Online Management Guard) - ASRock Internet Flash - ASRock UEFI System Browser - ASRock Dehumidifier Function - ASRock Easy RAID Installer - ASRock Fast Boot - ASRock X-Boost - ASRock Restart to UEFI - Hybrid Booster: - CPU Frequency Steppless Control - ASRock U-COP - Boot Failure Guard (B.F.G.) - Turbo 50 / Turbo 60 Overclocking - Good Night LED
<b>Hardware Monitor</b>	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU/Chassis/Power Fan Tachometer - CPU/Chassis Quiet Fan - CPU/Chassis/Power Fan Multi-Speed Control - Voltage Monitoring: +12V, +5V, +3.3V, Vcore
<b>OS</b>	- Microsoft® Windows® 8 / 8 64-bit / 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>	- 1 x ASRock SLI_Bridge_2S Card - 1 x ASRock 3-Way SLI-2S1S Bridge Card - Quick Installation Guide, Support CD, I/O Shield - 6 x SATA Data Cables - 2 x SATA 11 to 1 Power Cables - 1 x Front USB 3.0 Panel with 2.5" HDD/SSD Rack - 4 x HDD Screws - 6 x Chassis Screws - 1 x Rear USB 3.0 Bracket

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**X-BOOST**

ASRock's X-Boost Technology is a smart auto-overclocking function and is brilliantly designed to unlock the hidden cores of your CPUs. Simply press "X" when turning on the PC, X-Boost will automatically overclock the relative components to get up to 116% performance boost! With the smart X-Boost, overclocking CPU or unlock CPU cores can become a near one-button process.

\* The functionality of "Unlock CPU Cores" feature might vary by different processors.

**4.04 pts**  
**116%**  
**FASTER PERFORMANCE BOOST**  
**1.87 pts**  
**Cinebench R11.5**

■ ASRock AM3+ Motherboard With X-Boost  
■ Other AM3+ Motherboard Without X-Boost

## AM3+ 8-Core Processor Support

Supporting socket AM3+ and 8-Core CPU, this board is designed to build up the most powerful system and deliver the most demanding technology for advanced users. Just enjoy next generation computing with ASRock 8-Core CPU ready motherboard!



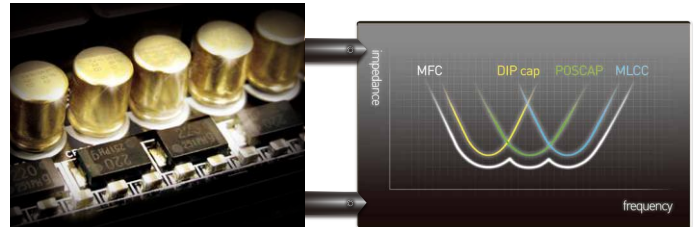
## Digi Power

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



## Multiple Filter Cap (MFC)

The ASRock MFC includes a combination of highly conductive MLCC, DIP cap and POSCAP. It helps the system filter noise from high-freq, mid-freq to low-freq noise, delivering enhanced and higher current to the CPU. With the combined power of three capacitors, MFC allows users to overclock their PC rig to extreme levels without worrying about the hardware components.



## Advanced 12 + 2 Power Phase

ASRock 990FX Extreme9 is designed with a 12 + 2 Power Phase design. It features sturdy components and completely smooth power delivery to the CPU. Plus, it offers unmatched overclocking capability and enhanced performance with the lowest temperature for advanced gamers as well.



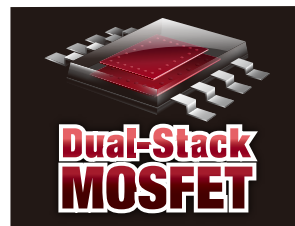
## DDR3 2450(OC)

ASRock 990FX Extreme9 motherboard unlocks maximum memory performance, coming with 4 DIMM slots for dual-channel memory, supporting up to DDR3 2450(OC) MHz!



## 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.



## Premium Gold Caps

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.



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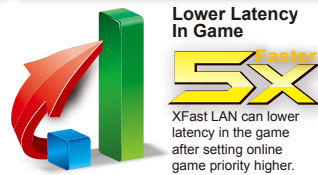
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### 5X Faster for Photoshop Execution

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.

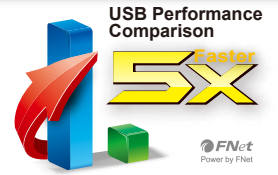
\* The performance boost percentage may vary with a different configuration.



### Lower Latency In Game

XFast LAN can lower latency in the game after setting online game priority higher.

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



### USB Performance Comparison

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

## Intel Gigabit LAN

Intel LAN provides the best throughput performance, lower CPU utilization, enhanced stability and is able to deliver ultimate network experience to users!



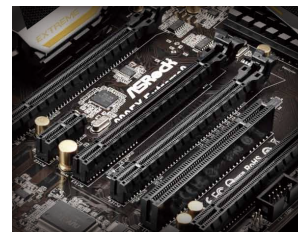
## Hi-Density Power Connector

Hi-Density Power Connector features a solid square-pin design. ASRock 990FX Extreme9 is equipped with High-Density Power Connector for the CPU power connector. The optimized design can reduce 23% power loss and decrease connector temperature up to 22°C.



## 3-Way SLI/3-Way CrossFireX

Equipped with 4 x PCIe 2.0 slots, this motherboard supports NVIDIA 3-Way SLI and AMD 3-Way CrossFireX, providing ultimate multi-GPU performance.



## 8 USB 3.0 (4 Front, 4 Back)

Rich storage options! ASRock 990FX Extreme9 offers 8 USB 3.0 (4 from onboard header, 4 from rear I/O) and bundles an exclusive front USB 3.0 panel to facilitate computing environment.



## Fast Boot

With ASRock's exclusive Fast Boot technology, it takes less than 1.5 seconds\* to logon to Windows 8 from a cold boot. No more waiting! The speedy boot will completely change your user experience and behavior.

\*The boot time may vary with a different configuration.



## Restart to UEFI

ASRock "Restart to UEFI" technology is designed for those requiring frequent UEFI access. It allows users to easily enter the UEFI SETUP automatically when turning on the PC next time.



## ASRock Dehumidifier

Users may prevent motherboard damages due to dampness by enabling "Dehumidifier Function". When enabling Dehumidifier Function, the computer will power on automatically to dehumidify the system after entering S4/S5 state.



## UEFI System Browser

The UEFI system browser allows you to easily check your current system configuration in UEFI setup.



## 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.



## Easy RAID Installer

Easy RAID Installer can help you install the RAID driver easily without floppy drive. It can copy the RAID driver from a support CD to your USB storage device with just one simple click in UEFI setup.



## 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.



## Google Chrome Browser & Toolbar

Chrome is a fast, simple, and secure web browser, built for the modern web. Google Toolbar is designed to help you find what you're looking for quickly and discover new things along the way.

