

890FX Deluxe5

AMD 890FX + SB850 Chipsets

ASRock
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Product Brief <<<

- Premium Gold Caps (2.5 x longer life time), 100% Japan-made high-quality Conductive Polymer Capacitors
- Supports AM3+ Processor, 8-Core CPU
- Supports Dual Channel DDR3 1866(OC)
- Supports ATI™ Quad CrossFireX™, 3-Way CrossFireX™ and CrossFireX™
- 2 x Front USB 3.0, 2 x Rear USB 3.0, 8 x SATA3, 2 x IEEE 1394
- Dr. Debug, Power/Reset/Clear CMOS Switch with LED
- Supports XFast USB, AXTU, UEFI, Instant Boot, Instant Flash, APP Charger, SmartView, Turbo UCC
- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec), THX TruStudio PRO™ and Premium Blu-ray audio support

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.

Detail Specification <<<

| | |
|-------------------------|---|
| Platform | ATX Form Factor: 12.0-in x 9.6-in, 30.5 cm x 24.4 cm All Solid Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors) |
| CPU | Support for Socket AM3+ processors 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) Advanced V8 + 2 Power Phase Design Supports CPU up to 140W Supports AMD's Cool 'n' Quiet Technology FSB 2600 MHz (5.2 GT/s) Supports Unified Overclocking Technology Supports Hyper-Transport 3.0 (HT 3.0) Technology |
| Chipset | Northbridge: AMD 890FX Southbridge: AMD SB850 AMD Vision Black |
| Memory | Dual Channel DDR3 memory technology 4 x DDR3 DIMM slots Supports DDR3 1866(OC)/1600(OC)/1600(OC)/1333/1066/800 non-ECC, un-buffered memory Max. capacity of system memory: 32GB |
| Expansion Slot | 3 x PCI Express 2.0 x16 slots (PCIe2/PCIe4 @ x16 mode; PCIe5 @ x4 mode) 2 x PCI Express 2.0 x1 slots 2 x PCI slots Supports ATI™ Quad CrossFireX™, 3-Way CrossFireX™ and CrossFireX™ |
| Audio | 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec) Premium Blu-ray audio support Supports THX TruStudio PRO™ |
| LAN | PCIe x1 Gigabit LAN 10/100/1000 Mb/s Realtek RTL8111E Supports Wake-On-LAN Supports LAN Cable Detection Supports Energy Efficient Ethernet 802.3az |
| Rear Panel I/O | 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 6 x Ready-to-Use USB 2.0 Ports 2 x Ready-to-Use USB 3.0 Ports 1 x eSATA3 Connector 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 |
| SATA3 | 6 x SATA3 6.0 Gb/s connectors by AMD SB850, support RAID (RAID 0, RAID 1, RAID 0+1 and RAID 5), NCC, AHCI and "Hot Plug" functions 2 x SATA3 6.0 Gb/s connectors by Marvell SE9120, support NCC, AHCI and "Hot Plug" functions |
| USB 3.0 | 2 x Rear USB 3.0 ports by NEC UPD720200, 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 NEC UPD720200, supports USB 1.0/2.0/3.0 up to 5Gb/s |
| Connector | 8 x SATA3 6.0 Gb/s connectors 1 x ATA133 IDE connector (supports 2 x IDE devices) 1 x Floppy connector 1 x IR header 1 x COM port header 1 x IEEE 1394 header 1 x HDMI SPDIF header 1 x Power LED header CPU/Chassis/Power FAN connector 24 pin ATX power connector 8 pin 12V power connector GD in header Front panel audio connector 2 x USB 2.0 headers (support 4 USB 2.0 ports) 1 x USB 3.0 header (supports 2 USB 3.0 ports) 1 x Dr. Debug (7-Segment Debug LED) |
| Smart Switch | 1 x Power Switch with LED 1 x Reset Switch with LED 1 x Clear CMOS Switch with LED |
| BIOS Feature | 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 |
| Support CD | Drivers, Utilities, AntiVirus Software (Trial Version), AMD OverDrive™ Utility, ASRock Software Suite (CyberLink DVD Suite - OEM and Trial) |
| Unique Feature | ASRock Extreme Tuning Utility (AXTU) Instant Boot ASRock Instant Flash ASRock AIWI ASRock APP Charger SmartView ASRock XFast USB Hybrid Booster - CPU Frequency Steppless Control - ASRock U-COP - Boot Failure Guard (B.F.G.) Turbo 50 / Turbo 60 CPU Overclocking Turbo UCC |
| Hardware Monitor | CPU Temperature Sensing Chassis Temperature Sensing CPU/Chassis/Power Fan Tachometer CPU Quiet Fan CPU/Chassis Fan Multi-Speed Control Voltage Monitoring: +12V, +5V, +3.3V, Vcore |
| OS | Microsoft® Windows® 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 | Quick Installation Guide, Support CD, I/O Shield Floppy/ATA 133 cables 4 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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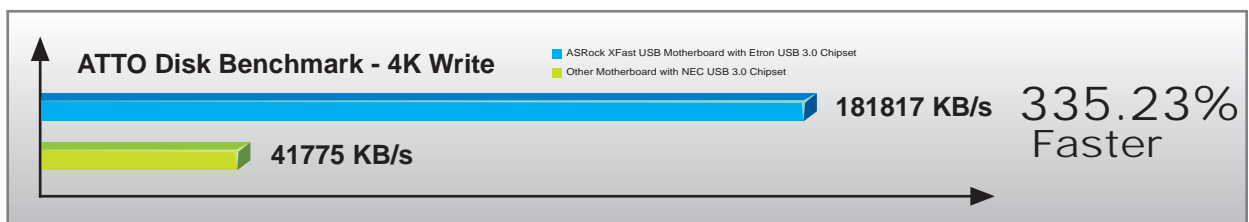
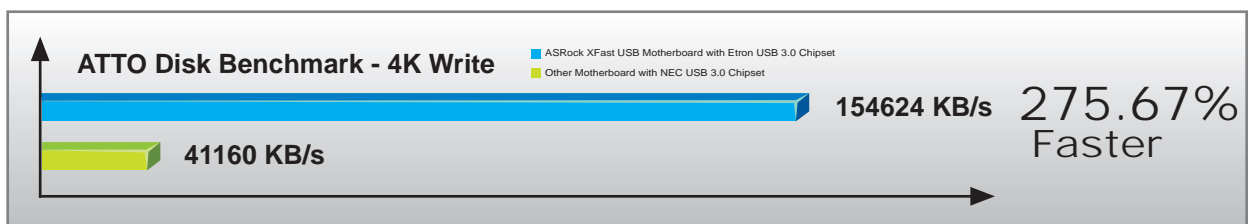
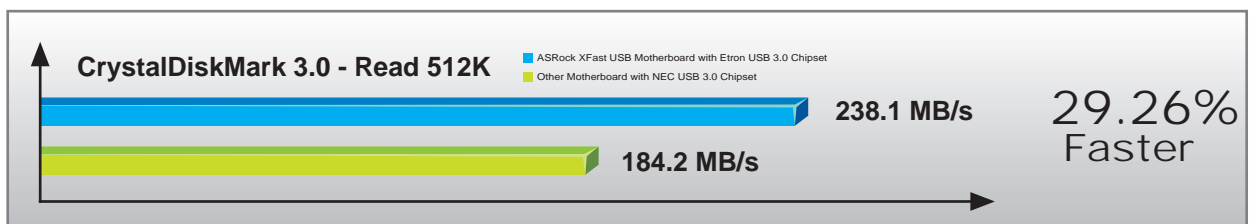
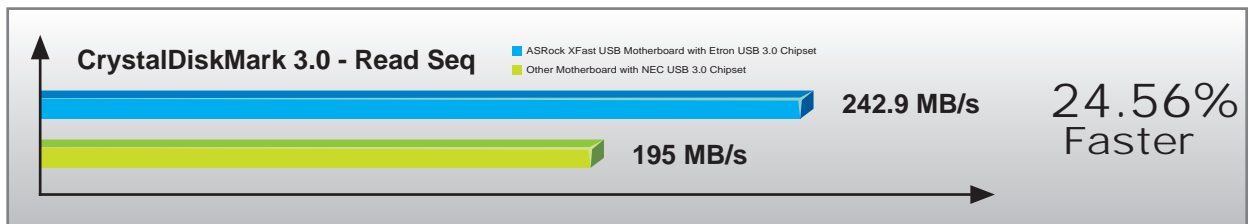
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ASRock XFast USB Technology - Faster Than Your Imagination!



(The rear I/O photo is example only)

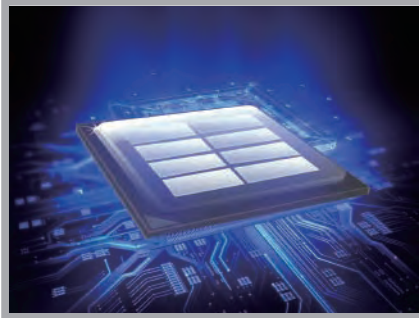
ASRock XFast USB Technology redefines the new standard in high performance computing. Proving once again to be the pioneer in motherboard industry, ASRock XFast USB Series Motherboards integrate with the latest XFast USB Technology which delivers the world's fastest USB data transfer speed. According to the below graph, it shows that the ASRock XFast USB technology can even boost USB 3.0 performance up to 335.23%!



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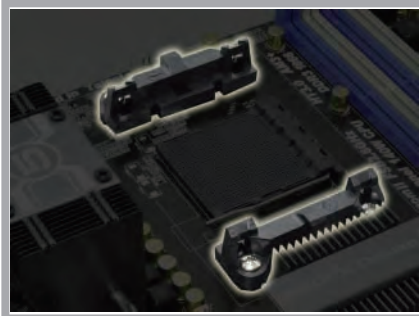
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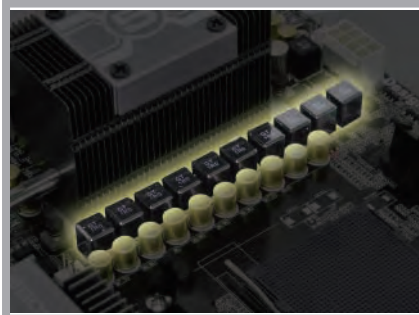
AM3+ 8-Core Processor Support

ASRock 890FX Deluxe5 is the world's 1st AMD motherboard supporting AM3+ 8-Core CPU! This board is designed to build up the most powerful system and delivers the most demanding technology for users nowadays. Just enjoy next generation computing with ASRock 8-Core CPU Ready motherboard.



Two-Piece Retention Module

By adopting the exclusive AMD two-piece retention module that improves the cooling efficiency with AM3+/AM3/AM2+ CPU coolers, this board allows heat dissipation becomes faster and effective.



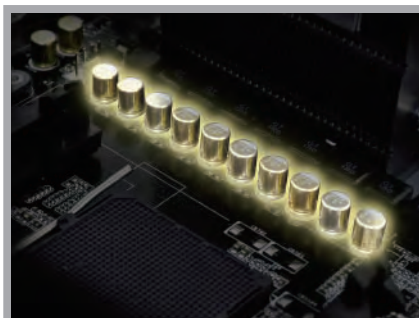
Advance V8 + 2 Power Phase

The ASRock 890FX Deluxe5 motherboard is designed with a V8+2 Power Phase, featuring sturdy components and completely smooth power delivery to the CPU. The ASRock 890FX Deluxe5 offers unmatched overclocking capability and enhanced performance with the lowest temperatures for PC gaming enthusiasts.



4 USB 3.0 (2 x Front + 2 x Back) + 8 SATA3

Coupled with 4 USB 3.0 and 8 SATA3 ports, the ASRock 890FX Deluxe5 motherboard offers plenty of storage options. Based on the concept of customization, this board is specially equipped with 4 USB 3.0 (2 from external Front USB 3.0 Panel, 2 from rear I/O) and 8 SATA3 connectors to satisfy PC DIYer's various needs.



Premium Gold Caps

All the capacitors on 890FX Deluxe5 motherboard are luxury, Premium Gold Caps. These 100% Japan-made solid capacitors are sleek, high gloss caps with a premium gold coating representing long life and stable performance.

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THX TruStudio PRO™

THX TruStudio PRO™ is specially designed to bring the same great audio experience found in live performances, films, and recording studios - to the PC. THX TruStudio PRO™ provides the latest groundbreaking technologies that are products of years of collective experience. These technologies deliver the fullest audio experience for music, movies and games, while remaining true to the source and intention of the artists who created it

THX
TruStudio PRO™



ASRock Turbo UCC
Your All-in-one Solution

- Overclocking
- Unlock CPU Core
- Power Saving

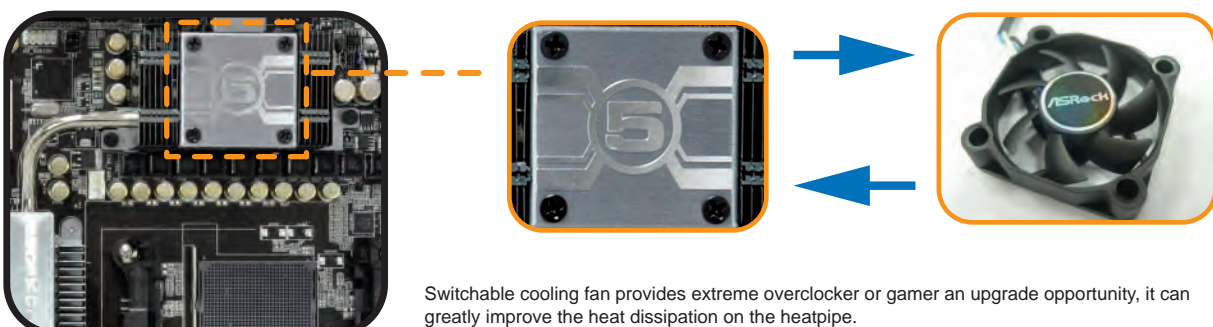
| Motherboard | 890FX Deluxe5 |
|-------------|--------------------|
| Chipset | AMD 890FX + SB850 |
| CPU | Phenom II X2 555 |
| RAM | Kingston 1333 1Gx2 |
| VGA | ATI 4890 |
| HDD | WD 500G |

| CINEBENCH R10 CPU Benchmark(x CPU) | |
|------------------------------------|-------|
| Turbo UCC OFF | 5634 |
| Turbo UCC ON | 11125 |
| 97% Increase | |

| Sandra 09-Multi-Media Int | |
|---------------------------|-------|
| Turbo UCC OFF | 61.78 |
| Turbo UCC ON | 134.1 |
| 171% Increase | |

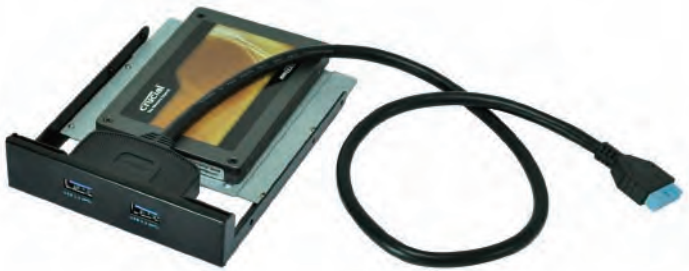
Turbo UCC technology provides you an all-in-one solution to unlock the hidden cpu cores in the CPU, get the amazing system performance boost by auto-overclocking, and running the system in a certainly lower power consumption level as well. When you press "X" when switch on the computer, the system will automatically reboot itself, after that, the system will execute the Turbo UCC function. Enabling Turbo UCC, it will automatically help you to unlock the extra CPU core to enjoy an instant performance boost, and the system performance will boost up by overclocking CPU frequency, memory frequency and all related voltage settings! Different from normal high-energy consumption for overclocking or system upgrading process, ASRock Turbo UCC can allow an energy-saving overclocking or system upgrade computing operation!

Cool Heatpipe



Switchable cooling fan provides extreme overclocker or gamer an upgrade opportunity, it can greatly improve the heat dissipation on the heatpipe.

Front USB 3.0 Panel



The Front USB 3.0 Panel supports 2 x USB 3.0 ports and provides a 2.5" SSD/HDD rack.



1. Prepare a 2.5" HDD/SSD and place it on the Front USB 3.0 Panel.



2. Screw the 2.5" HDD/SSD to the Front USB 3.0 Panel with four HDD screws.



3. Install the Front USB 3.0 Panel into the 2.5" drive bay of the chassis.



4. Screw the Front USB 3.0 Panel to the drive bay with six chassis screws.



5. Plug the Front USB 3.0 cable into the USB 3.0 header on the motherboard.



6. The Front USB 3.0 Panel is ready to use.

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AXTU - The All-in-1 Tuning Software



ASRock Extreme Tuning Utility (AXTU) is an all-in-one software to fine-tune different features in an user-friendly interface, which includes Hardware Monitor, Fan Control, Overclocking, OC DNA and IES. In Hardware Monitor, it shows the major readings of your system. In Fan Control, it shows the fan speed and temperature for you to adjust. In Overclocking, you are allowed to adjust the CPU frequency, ratio and some voltages for optimal system performance. In OC DNA, you can save your OC settings as a profile and share with your friends. Your friends then can load the OC profile to their own system to get the same OC settings. In IES (Intelligent Energy Saver), the voltage regulator can reduce the number of output phases to improve efficiency when the CPU cores are idle without sacrificing computing performance.

UEFI - The Revolutionary BIOS Interface



*Windows Vista-64bit or Windows 7-64bit OS is required

Unified Extensible Firmware Interface (UEFI) is a revolutionary BIOS utility which offers tweak-friendly options in an advanced viewing interface. Compared with traditional BIOS design, the latest UEFI utility provides lots improved functions. The major features of UEFI include:

1. Graphical Visual Experience – UEFI provides an improved visual interface with colorful icons and makes your computing environment more versatile to replace the traditional dull BIOS page.
2. Mouse Enabling – Besides keyboard control, you can freely use mouse to select your ideal settings in UEFI as well.
3. Supports 3TB bootable HDD - UEFI breaks the limitations of 2TB bootable HDD on traditional BIOS. With UEFI, you can enjoy 3TB bootable HDD size.

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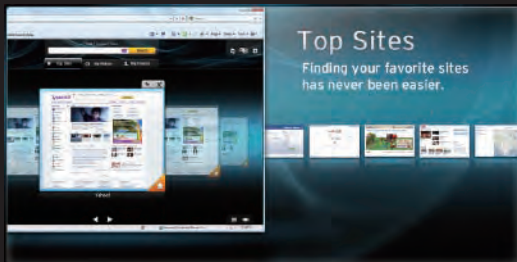
SmartView

Experience the Brand New Browser Now

SmartView is the smart start page for IE that combines your most visited web sites, your history, your Facebook friends and your real-time newsfeed into an enhanced view for a more personal Internet experience. ASRock motherboards are exclusively equipped with the SmartView utility that helps you keep in touch with friends on-the-go.

The Major Features of SmartView

Visual thumbnail images which categorize and rank your frequently visited websites, as well as provide a chronological view of your browser history.



A persistent, real-time Facebook newsfeed located within the Internet Explorer sidebar.



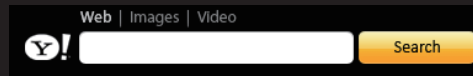
A "Friend Wall" that conveniently alphabetizes your Facebook friends by profile photo, allowing immediate access to your friends' profile pages.



A "share this" button which allows you to instantly and immediately share webpage posts and links to your friends' Facebook pages.



A persistent search box from best-in-class search engines such as Google, Yahoo, Baidu (China only) and Yandex (Russia only).



Two mode options that allow you to choose your favored view style.



Flow Mode



Flow Mode

System Requirements

OS version: Win7 32/64 bit, Vista 32/64

bit Browser version: IE8

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CyberLink

CyberLink Power2Go 6.1 LE OEM

Power2Go 6 lets you burn and backup videos, photos, music and data onto Blu-ray Discs and DVDs.

CyberLink MediaShow 4.1 SE OEM

Photo and video management software MediaShow edits videos and photos instantly, creates slideshow, and allows publishing directly to YouTube and Flickr.

CyberLink PowerDVD 8.0 DTS Trial

World-renowned PowerDVD 8 DTS delivers outstanding DVD movie playback quality on your PC.

CyberLink PowerDirector 8.0 Trial

PowerDirector - Video Editing software – edits high-definition videos including AVCHD, allows output to PSP iPod and Blu-ray Disc.

CyberLink PowerBackup 2.5 Trial

PowerBackup backups valuable data on your PC.