

990FX Professional

AMD 990FX + SB950 Chipsets



ASRock
www.asrock.com



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) - Digital PWM Design - Advanced V12 + 2 Power Phase Design - 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
Chipset	- Northbridge: AMD 990FX - Southbridge: AMD SB950
Memory	- Dual Channel DDR3 memory technology - 4 x DDR3 DIMM slots - Supports DDR3 2100(OC)/1866(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 AMD Quad CrossFireX™, 3-Way CrossFireX™ and CrossFireX™ - Supports NVIDIA® Quad SLI™ and SLI™
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC892 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 Dual LAN with Teaming function - Supports PXE
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 - 5 x Ready-to-Use USB 2.0 Ports - 1 x Fatal1ty Mouse Port (USB 2.0) - 2 x Ready-to-Use USB 3.0 Ports - 2 x eSATA3 Connectors - 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: Side Speaker / Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone
SATA3	- 6 x SATA3 6.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 0+1, JBOD and RAID 5), NCQ, AHCI and "Hot Plug" functions
USB 3.0	- 2 x Rear USB 3.0 ports by Etron EJ168A, 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 Etron EJ168A, support USB 1.0/2.0/3.0 up to 5Gb/s
Connector	- 6 x SATA3 6.0 Gb/s connectors - 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 - 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)
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), CyberLink MediaEspresso 6.5 Trial, AMD Fusion, AMD Fusion Media Explorer, ASRock Software Suite (CyberLink DVD Suite - OEM and Trial)
Unique Feature	- F-Stream - ASRock Instant Boot - ASRock Instant Flash - ASRock APP Charger - ASRock SmartView - ASRock XFast USB - ASRock On/Off Play Technology - 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 / 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	- 1 x ASRock SLI Bridge 2S 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 3.5mm Audio Cable (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
- Digital PWM Design, Advanced V12 + 2 Power Phase Design
- Supports Dual Channel DDR3 2100(OC)
- Supports AMD Quad CrossFireX™, 3-Way CrossFireX™ and CrossFireX™
- Supports NVIDIA® Quad SLI™ and SLI™
- Dual PCIe GLAN with Teaming function
- Dr. Debug, Smart Swith Design: Power/Reset/Clear CMOS Switch with LED
- Supports Fatal1ty XFast USB, XFast LAN Technology, Graphical UEFI
- Supports Fatal1ty F-Stream, On/Off Play Technology, Turbo UCC
- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec), Supports THX TruStudio™
- Free Bundle : 1 x 3.5mm Audio Cable, 1 x Front USB 3.0 Panel, CyberLink MediaEspresso 6.5 Trial

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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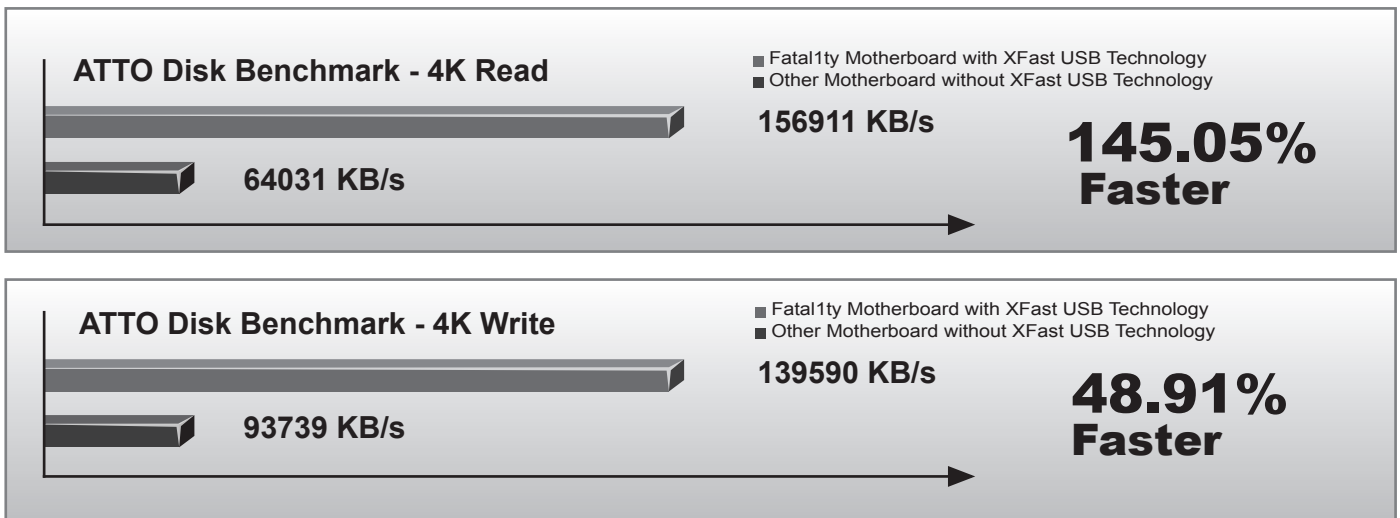
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XFast USB Technology

The world's fastest USB transfer speed.



USB 3.0 Performance Comparison



XFast LAN Technology



1 LAN Application Prioritization

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

2 Lower Latency In Game

Configuration	Time Latency (ms)
With XFast LAN	441 ms
Without XFast LAN	1371 ms

67.83% Improve

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.

3 Traffic Shaping

You can watch Youtube HD video and download files simultaneously.

4 Real-Time Analysis Of Your Data

With the status window, you can easily recognize which data streams you are currently transferring.

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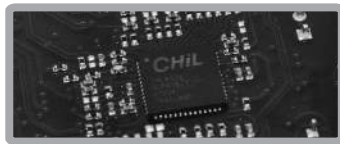
AM3+ 8-Core Processor Support

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!



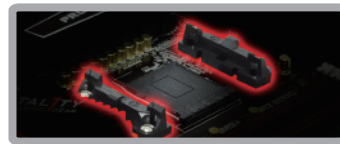
Digital PWM Design

By adopting digital Pulse-width modulation (PWM), the Fatal1ty 990FX Professional Series can provide CPU Vcore voltage more efficiently and smoothly. Compared to analog PWM, digital PWM can optimize the CPU power solution and provide a proper and stable Vcore for the processor.



Combo Cooler Retention Module

The unique combo cooler retention module greatly improves heat dissipation and is backward compatible with AMD previous AM3/AM2+ CPU coolers.



Dual LAN - Teaming

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.



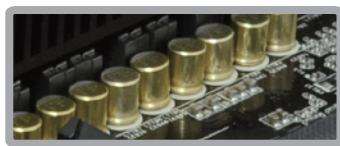
Fatal1ty Mouse Port

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.



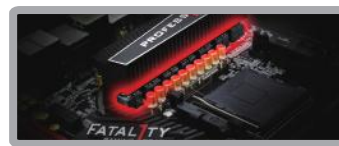
Premium Gold Caps

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



V12+2 CPU Power Phase

To improve CPU power solution, this board is designed with the advanced V12+2 power phase design which signatures tough components and smooth power delivery to the CPU.



THX TruStudio

Delivering the fullest audio experience for games, music and movies.



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 and Fatal1ty Mouse Port Configuration.



Graphical UEFI

- * Graphical Visual Experience
- * Mouse Enabling
- * Supports 3TB bootable HDD



NVIDIA SLI

Supports NVIDIA Quad SLI and SLI.



AMD CrossFireX

Supports AMD™ Quad CrossFireX™, 3-Way CrossFireX™ and CrossFireX™



On/Off Play

Enjoy great audio experience from the portable audio devices via PC speaker even when the system is powered off.



Cyberlink MediaEspresso 6.5 Trial

The fastest video media conversation software



Free Bundle
3.5mm Audio Cable



Turbo UCC The All-in-One Solution

- v Overclocking
- v Unlock CPU Core
- v Power Saving

