FM2A85X Extreme6

AMD A85X FCH (Hudson-D4)

ASRock
www.asrock.com

AMD CROSSFIRE TECHNOLOGY

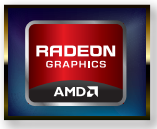
AMD DUAL GRAPHICS TECHNOLOGY

Socket FM2

A10 A8 A6 A4

Windows 8 Ready

P7800+
3DMark Vantage



AMD Radeon HD 7000 Series Graphics

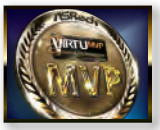
DirectX® 11

Digi Power

X-Boost

Fast Boot

Restart to UEFI



Lucid Virtu MVP

Google Chrome Browser & Toolbar

Product Brief

- Support for Socket FM2 100W processors
- Premium Gold Caps, Digi Power, 8 + 2 Power Phase Design
- AMD A85X Hudson D4 Chipset Supports Native 8 x SATA3, 4 x USB 3.0 Ports
- Supports Dual Channel DDR3 2600+(OC)
- Supports Intel XMP 1.3/1.2 and AMD Memory Profile
- Supports AMD Quad CrossFireX™, 3-Way CrossFireX™, CrossFireX™ and Dual Graphics
- Integrated AMD Radeon HD 7000 series graphics in A-series APU
- Multi-VGA Output : D-Sub, DVI-D, HDMI and DisplayPort
- 7.1 CH HD Audio with Content Protection (Realtek ALC898 Audio Codec), Supports THX TruStudio™
- Supports ASRock X-Boost, XFast 555, Fast Boot, Restart to UEFI, OMG, Dehumidifier, Easy RAID Installer, Interactive UEFI
- Supports Lucid Virtu MVP, AMD Steady Video 2.0
- Free Bundle : CyberLink MediaEspresso 6.5 Trial, ASRock MAGIX Multimedia Suite, Google Chrome Browser and Toolbar

Detail Specification

Platform	- ATX Form Factor - Premium Gold Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)
CPU	- Support for Socket FM2 100W processors - Digi Power Design - 8 + 2 Power Phase Design - Supports AMD's Cool 'n' Quiet Technology - UMI-Link GEN2
Chipset	- AMD A85X (Hudson-D4)
Memory	- Dual Channel DDR3 memory technology - 4 x DDR3 DIMM slots - Supports DDR3 2600+(OC)/2400(OC)/2133(OC)/1866/1600/1333/1066/800 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)
Expansion Slot	- 3 x PCI Express 2.0 x16 slots (PCIE2/PCIE4: single at x16 (PCIE2) / x8 (PCIE4), or dual at x8 (PCIE2) / x8 (PCIE4) ; PCIE5: x4 mode) - 2 x PCI Express 2.0 x1 slots - 2 x PCI slots - Supports AMD Quad CrossFireX™, 3-Way CrossFireX™, CrossFireX™ and Dual Graphics
Graphics	- Integrated AMD Radeon HD 7000 series graphics in A-series APU - DirectX 11, Pixel Shader 5.0 - Max. shared memory 2GB - Four VGA Output options: D-Sub, DVI-D, HDMI and DisplayPort - Supports HDMI 1.4a Technology with max. resolution up to 1920x1200 @ 60Hz - Supports Dual-link DVI with max. resolution up to 2560x1600 @ 75Hz - Supports D-Sub with max. resolution up to 1920x1600 @ 60Hz - Supports DisplayPort 1.2 with max. resolution up to 4096x2160 @ 30Hz - Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI (Compliant HDMI monitor is required) - Supports Blu-ray Stereoscopic 3D with HDMI 1.4a - Supports AMD Steady Video™ 2.0: New video post processing capability for automatic jutter reduction on home/online video - Supports HDCP function with DVI, HDMI and DisplayPort ports - Supports Full HD 1080p Blu-ray (BD) / HD-DVD playback with DVI, HDMI and DisplayPort ports
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 - Realtek RTL8111E - Supports Wake-On-LAN - Supports LAN Cable Detection - Supports Energy Efficient Ethernet 802.3az - Supports PXE
Rear Panel I/O	I/O Panel - 1 x PS/2 Mouse/Keyboard Port - 1 x D-Sub Port - 1 x DVI-D Port - 1 x HDMI Port - 1 x DisplayPort - 1 x Optical SPDIF Out Port - 2 x Ready-to-Use USB 2.0 Ports - 1 x eSATA3 Connector - 4 x Ready-to-Use USB 3.0 Ports - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - 1 x Clear CMOS Switch with LED - HD Audio Jack: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone
SATA3	- 7 x SATA3 6.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 5 and RAID 10), NCQ, AHCI and "Hot Plug" functions
USB 3.0	- 2 x Rear USB 3.0 ports by AMD A85X (Hudson-D4), support USB 1.1/2.0/3.0 up to 5Gb/s - 2 x Rear USB 3.0 ports by ASMedia ASM1042, support USB 1.1/2.0/3.0 up to 5Gb/s - 1 x Front USB 3.0 header (supports 2 USB 3.0 ports) by AMD A85X (Hudson-D4), supports USB 1.1/2.0/3.0 up to 5Gb/s
Connector	- 7 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 Power LED header - 1 x Chassis Intrusion 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 - XFire power connector - Front panel audio connector - 3 x USB 2.0 headers (support 6 USB 2.0 ports) - 1 x USB 3.0 header (supports 2 USB 3.0 ports) - 1 x Dr. Debug with LED - 1 x Power Switch with LED - 1 x Reset 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 - DRAM, APU PCIE VDDP, CPU and CPU NB/GFX Voltage Multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), AMD Live! Explorer, CyberLink MediaEspresso 6.5 Trial,ASRock MAGIX Multimedia Suite - OEM, Google Chrome Browser and Toolbar
Unique Feature	- 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 Interactive UEFI - ASRock Fast Boot - ASRock Restart to UEFI - ASRock X-Boost - Lucid Virtu Universal MVP * Lucid Virtu Universal MVP can be supported only with processors which are GPU integrated. - Hybrid Booster: - ASRock U-COP
Hardware Monitor	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU/Chassis/Power Fan Tachometer - CPU Quiet Fan - CPU/Chassis Fan Multi-Speed Control - CASE OPEN detection - Voltage Monitoring: +12V, +5V, +3.3V, Vcore
OS	- Microsoft® Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 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 - 4 x SATA data cables

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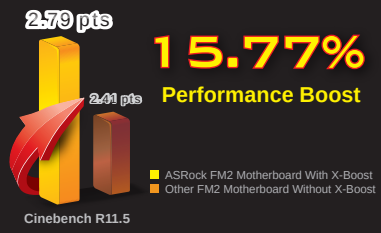
X-BOOST

Brilliantly designed for smart overclocking, ASRock X-Boost Technology is able to unleash the hidden power of your CPUs. Simply press “X” when turning on the PC, X-Boost will automatically overclock the relative components to get up to 15.77% performance boost! With the smart X-Boost, overclocking CPU can become a near one-button process.

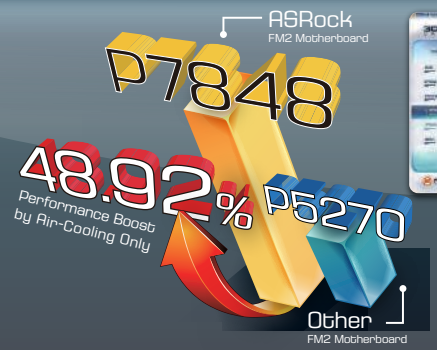


Digi Power

Traditional motherboards are mostly equipped with analog Pulse-width modulation (PWM), which might bring users annoying problems that the CPU power supply is not stable enough, hence affects the computing efficiency. To improve CPU power solution, ASRock FM2 motherboards adapt Digi Power (digital Pulse-width modulation), providing CPU Vcore voltage more efficiently and smoothly. In addition, the unique Digi Power provides the most reliable computing CPU power solution, allowing users to enjoy the amazing performance.

2nd Generation A-Series APUs - Break 3DMark Vantage P7800+ Barrier!

Overclocked Onboard Graphics Score
3DMark Vantage (Performance)



* 7800+ points in 3DMark Vantage was achieved by overclocking with air cooling.

Overclocking Configuration	
Model	FM2A85X Extreme6
BIOS	L0.07I
CPU	FM2-A10-5800K 3.8G
DRAM	G.SKILL DDR3-2666 4Gx2
VGA	APU
HDD	WD SATA 160G

Windows 8 Support

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.

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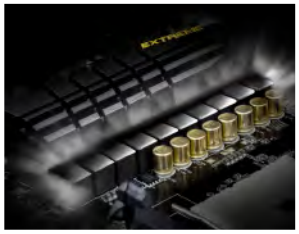
Premium Gold Caps

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.

8 + 2 Power Phase Design

ASRock FM2A85X Extreme6 is designed with a 8 + 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 2600+ Support

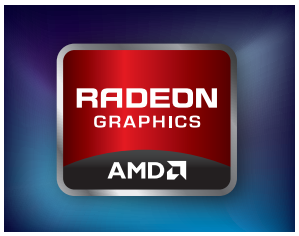
ASRock AMD FM2 motherboards unlock maximum memory performance, coming with 4 DIMM slots for dual-channel memory, supporting up to DDR3 2600+(OC) MHz!

AMP & XMP

Not only supporting AMD Memory Profile (AMP), ASRock FM2 Motherboard Series also come with Intel XMP memory tuning kits, making it's easy to get maximum memory performance from your system.

AMD Radeon HD 7000 Series Graphics

Engineered for supremacy, designed for efficiency and packed with incredible features, the AMD Radeon HD 7000 Series offers the world's most advanced graphics.

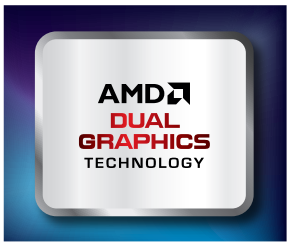


DirectX® 11

DirectX® 11 is the very latest in high-speed, high-fidelity gaming and computing. It can enable not just more visually stunning games, but significant performance improvements in some of your favorite websites and everyday applications.

AMD Dual Graphics

The AMD Dual Graphics technology combines APU and GPU computing power to optimize user's visual experience.



AMD Steady Video 2.0

Bringing the best video experience! Compared to v1.0, AMD Steady Video 2.0 provides more tech advances such as Letter/Pillar Boxed Content, Indicator Overlay, Enhanced Algorithm Effectiveness, etc.

Lucid Virtu MVP

Brilliantly designed for gaming, Virtu MVP switchable graphics software assigns tasks dynamically to the best graphics resource and features two exciting techniques – HyperFormance™ and Virtual Vsync™.

XFast 555
(XFast RAM, XFast LAN, XFast USB)

ASRock unique XFast 555 Technology (XFast RAM, XFast LAN, and XFast USB) allows users to experience 5 times performance boost in terms of system performance, LAN speed and USB transfer speed.

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.

Interactive UEFI

ASRock Interactive UEFI is a blend of system configuration tools, cool sound effects and stunning visuals. The unprecedented UEFI provides a more attractive interface and brings a lot more amusing.

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.

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. Now ASRock has both Chrome and Google Toolbar bundled with our motherboards so users may enjoy better internet surfing experiences.

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