FM2A85X Pro

AMD A85X FCH (Hudson-D4)

ASRock®
www.asrock.com

FM2A85X Pro

Socket FM2
AMD A85X CHIPSET
A10 | A8 | A6 | A4
AMD

AMD CROSSFIRE TECHNOLOGY

AMD DUAL GRAPHICS TECHNOLOGY

Windows 8 Ready

X Fast RAM
X Fast LAN X Fast USB
RoHS
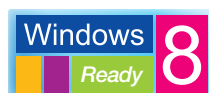
P7800+
3DMark Vantage

AMD Radeon HD 7000 Series Graphics

DirectX® 11

X-Boost

555 XFast
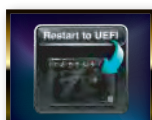

Fast Boot

Restart to UEFI

Interactive UEFI

Google Chrome Browser & Toolbar

Product Brief

- Support for Socket FM2 100W processors
- All Solid Capacitor Design
- Supports Dual Channel DDR3 1866
- Supports Intel XMP 1.3/1.2 and AMD Memory Profile
- Supports AMD Quad CrossFireX, CrossFireX and Dual Graphics
- Integrated AMD Radeon HD 7000 series graphics in A-series APU
- Dual-VGA Output : D-Sub, DVI-D
- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
- Supports ASRock X-Boost, XFast 555, Fast Boot, Restart to UEFI, OMG, Dehumidifier, Interactive UEFI
- Supports AMD Steady Video 2.0
- Free Bundle : CyberLink MediaEspresso 6.5 Trial, Google Chrome Browser and Toolbar

Detail Specification

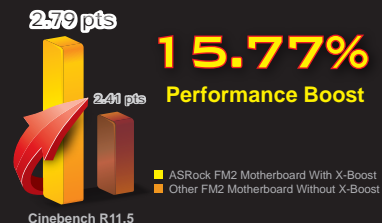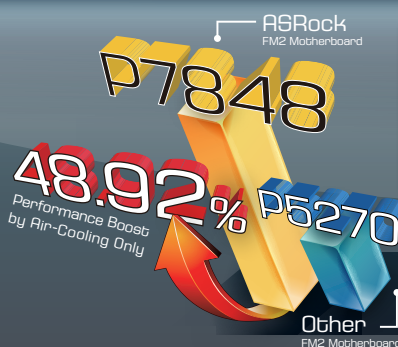|	
Platform	- ATX Form Factor - All Solid Capacitor design
CPU	- Support for Socket FM2 100W processors - 4 + 1 Power Phase Design - Supports AMD's Cool 'n' Quiet Technology - UMI-Link GEN2
Chipset	- AMD A85X (Hudson-D4)
Memory	- Dual Channel DDR3 memory technology - 2 x DDR3 DIMM slots - Supports DDR3 1866/1600/1333/1066 non-ECC, un-buffered memory - Max. capacity of system memory: 32GB - Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2 - Supports AMD Memory Profile (AMP)
Expansion Slot	- 2 x PCI Express 2.0 x16 slots (PCIE2 @ x16 mode; PCIE5 @ x4 mode) - 3 x PCI Express 2.0 x1 slots - 2 x PCI slots - Supports AMD Quad 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 - Dual VGA Output: support DVI and D-Sub ports by independent display controllers - Supports Dual-link DVI with max. resolution up to 2560x1600 @ 75Hz - Supports D-Sub with max. resolution up to 1920x1600 @ 60Hz - Supports AMD Steady Video™ 2.0: New video post processing capability for automatic jitter reduction on home/online video - Supports HDCP function with DVI port - Supports Full HD 1080p Blu-ray (BD) / HD-DVD playback with DVI port
Audio	- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
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 Port - 1 x PS/2 Keyboard Port - 1 x D-Sub Port - 1 x DVI-D Port - 4 x Ready-to-Use USB 2.0 Ports - 2 x Ready-to-Use USB 3.0 Ports - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jack: Line in / Front Speaker / Microphone
SATA3	- 8 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, 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), supports USB 1.1/2.0/3.0 up to 5Gb/s
Connector	- 8 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 CPU Fan connector (4-pin) - 2 x Chassis Fan connectors (2 x 4-pin) - 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) - 1 x USB 3.0 header (supports 2 USB 3.0 ports)
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, VDDP, VDDR Voltage Multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, 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 X-Boost - ASRock Restart to UEFI - Hybrid Booster: - ASRock U-COP
Hardware Monitor	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU Fan Tachometer - Chassis Fan Tachometer - CPU/Chassis Quiet Fan - CPU/Chassis Fan Multi-Speed Control - 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 - 2 x SATA data cables

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.

2.79 pts
2.41 pts

15.77%
Performance Boost

☐ ASRock FM2 Motherboard With X-Boost
☐ Other FM2 Motherboard Without X-Boost

Cinebench R11.5

3DMark Vantage P7800+

Overclocked Onboard Graphics Score
3DMark Vantage (Performance)

P7800+
3DMARK VANTAGE
by Air-Cooling.

ASRock
FM2 Motherboard

P7848

48.92%
Performance Boost
by Air-Cooling Only

P5270

Other
FM2 Motherboard

3DMARK SCORE P7848

3DMARK SCORE P5270

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

Overclocking Configuration

| Model	FM2A85X Pro
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.

Fast Boot
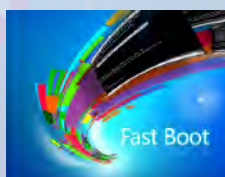
Restart to UEFI

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.

Restart to UEFI

All Solid Capacitor Design

All the capacitors on this board are built with 100% all solid capacitors. With these solid caps, ASRock motherboard is allowed to perform more stably and ensure longer lifetime.

Native SATA3 Support

Based on the AMD A85X Hudson-D4 Chipset, ASRock FM2A85X Pro can natively support 8 SATA3 connectors to satisfy users' various needs.
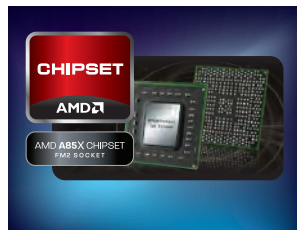
AMP & XMP

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.
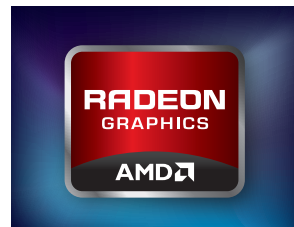
DirectX® 11

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.
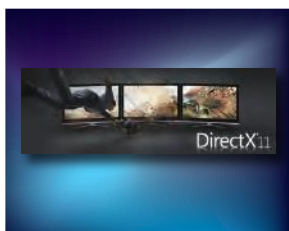
AMD Dual Graphics

The AMD Dual Graphics technology combines APU and GPU computing power to optimize user's visual experience.
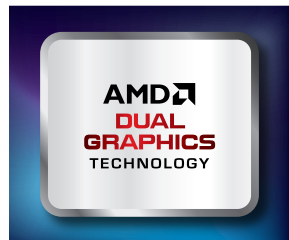
AMD Steady Video 2.0

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.

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.

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.