

# 939A785GMH

AMD 785G + SB710 Chipsets

**ASRock**  
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**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



## Product Brief

- Integrated AMD Radeon HD 4200 graphics, DX10.1 class iGPU, Shader Model 4.1, Max. shared memory 512MB
- Supports AMD Hybrid CrossFireX™
- Multi-VGA Output options: D-Sub, DVI-D and HDMI
- Supports ASRock Instant Boot, Instant Flash, OC Tuner, Intelligent Energy Saver, OC DNA, APP Charger
- Free Bundle : CyberLink MediaEspresso 6.5 Trial, ASRock MAGIX Multimedia Suite

## Detail Specification

<b>Platform</b>	- Micro ATX Form Factor: 9.6-in x 8.6-in, 24.4 cm x 21.8 cm - Solid Capacitor for CPU power
<b>CPU</b>	- Socket 939 for AMD Athlon™ 64FX / 64X2 / 64 processors - Supports AMD's Cool 'n' Quiet Technology - FSB 1000 MHz (2.0 GT/s) - Supports Untied Overclocking Technology - Supports Hyper-Transport Technology
<b>Chipset</b>	- Northbridge: AMD 785G - Southbridge: AMD SB710
<b>Memory</b>	- Dual Channel DDR memory technology - 4 x DDR DIMM slots - Supports DDR 400/333/266 non-ECC, un-buffered memory - Max. capacity of system memory: 4GB
<b>Expansion Slot</b>	- 1 x PCI Express 2.0 x16 slot (blue @ x16 mode) - 1 x PCI Express 2.0 x1 slot - 2 x PCI slots - Supports ATI™ Hybrid CrossFireX™
<b>Graphics</b>	- Integrated AMD Radeon HD 4200 graphics - DX10.1 class iGPU, Shader Model 4.1 - Max. shared memory 512MB - Three VGA Output options: D-Sub, DVI-D and HDMI - Supports HDMI Technology with max. resolution up to 1920x1200 (1080P) - Supports Dual-link DVI with max. resolution up to 2560x1600 @ 75Hz - Supports D-Sub with max. resolution up to 2048x1536 @ 60Hz - Supports HDCP function with DVI and HDMI ports - Supports Full HD 1080p Blu-ray (BD) / HD-DVD playback with DVI and HDMI ports
<b>Audio</b>	- 7.1 CH HD Audio (Realtek ALC888 Audio Codec)
<b>LAN</b>	- PCIe x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111DL - Supports Wake-On-LAN - Supports PXE
<b>Rear Panel I/O</b>	I/O Panel - 1 x PS/2 Keyboard Port - 1 x D-Sub Port - 1 x DVI-D Port - 1 x HDMI Port - 1 x Optical SPDIF Out Port - 4 x Ready-to-Use USB 2.0 Ports - 1 x eSATA2 Port - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jack: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone
<b>Connector</b>	- 5 x SATA2 3.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 10 and JBOD), NCQ, AHCI and "Hot Plug" functions - 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 Print port header - CPU/Chassis/Power FAN connector - 24 pin ATX power connector - 4 pin 12V power connector - CD in header - Front panel audio connector - 3 x USB 2.0 headers (support 6 USB 2.0 ports)
<b>BIOS Feature</b>	- 8Mb AMI Legal BIOS - Supports "Plug and Play" - ACPI 1.1 Compliance Wake Up Events - Supports jumperfree - SMBIOS 2.3.1 Support - VCCM, NB Voltage Multi-adjustment
<b>Support CD</b>	- Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, ASRock Software Suite (CyberLink DVD Suite - OEM and Trial; Creative Sound Blaster X-Fi MB - Trial; ASRock MAGIX Multimedia Suite - OEM)
<b>Unique Feature</b>	- ASRock OC Tuner - ASRock Intelligent Energy Saver - ASRock Instant Boot - ASRock Instant Flash - ASRock OC DNA - ASRock APP Charger - Hybrid Booster: - CPU Frequency Stepless Control - ASRock U-COP - Boot Failure Guard (B.F.G.)
<b>Hardware Monitor</b>	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU/Chassis/Power Fan Tachometer - CPU Quiet Fan - Voltage Monitoring: +12V, +5V, +3.3V, Vcore
<b>OS</b>	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP Media Center / XP 64-bit compliant
<b>Certifications</b>	- FCC, CE, WHQL - ErP/EuP Ready (ErP/EuP ready power supply is required)
<b>Accessories</b>	- Quick Installation Guide, Support CD, I/O Shield - ATA 133 cable - 2 x SATA data cables (optional)

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## AMD Radeon® HD4200 DirectX 10.1 Onboard Graphics

Key features of DirectX 10.1 include an updated shader model, improved nti-aliasing support, more flexible data access, and tighter specifications for better applicationcompatibility.

### DirectX 10.1 Anti-Aliasing



DirectX 10 –Standard MSAA:Foliage edges do not get anti-aliased –causes shimmering and crawling when they move

DirectX 10.1 –Alpha Test MSAA:Foliage edges are smoothed and anti-aliased –offers significant image quality improvement

Features	DirectX® 10	DirectX® 11
Shader Model	4	4.1
Separate per-MRT blend modes	No	Yes
Pixel Coverage Masks	No	Yes
Sample Pattern Selection	No	Yes
Cube Map Arrays	No	Yes
Gather4	No	Yes
VS Inputs	16	32
Blending	INT8, FP16/32	INT8, FP16/32
Filtering	FP16	FP32

## Cyberlink MediaEspresso 6.5 Trial

The fastest video media conversation software



## MAGIX Multimedia Suite

The ultimate solutions to enhance your media experience. From music management, music creation, video editing to photo management. Simply do more with your media than you ever thought possible.



## Instant Boot

It takes only 3 to 4 seconds to boot up the system to Windows.



## Instant Flash

Flash BIOS without having to enter operating systems like MS-DOS or Windows.



## OC Tuner

ASRock OC Tuner is a user-friendly and untied tool which allows you to guard your system by hardware monitor function and overclock your hardware devices to get the best system performance



## OC DNA

Save your OC settings as a profile and share with friends. Try OC DNA now!



## App Charger

The best Apple charge companion

