▶ GA-870A-USB3 (rev. 3.1)

other version : rev. 3.0 AMD 870 + SB850 Chipset

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Specification





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Product Comparison

CPU Support List

Memory Support List

Accessory Optional



Overview

		NRS
	AM3+ Socket:	
CDLI	1. Compare for AMD AM2 is proceeding	
CPU	 Support for AMD AM3+ processor Support for AMD AM3 Phenom™ II processor / AMD Athlon™ II processor 	
	2. Support for AMD AMS FREHOM II processor / AMD Atmon II processor	
Hyper	1. 5200 MT/s	
Transport Bus		
Chipset	1. North Bridge: AMD 870	
	2. South Bridge: AMD SB850	
	1. 4 x 1.5V DDR3 DIMM sockets supporting up to 16 GB of system memory(Note 1)	
Memory	2. Dual channel memory architecture	
	3. Support for DDR3 2000(O.C.)/1333/1066 MHz memory modules	
	Realtek ALC889 codec	
	2. High Definition Audio	
Audio	3. 2/4/5.1/7.1-channel	
	4. Support for S/PDIF In/Out	
	5. Support for CD In	
LAN	1. 1 x Realtek 8111E chip (10/100/1000 Mbit)	
	1. 1 x PCI Express x16 slot, running at x16 (PCIEX16)(Note 2)	
Expansion	2. 1 x PCI Express x16 slot, running at x4 (PCIEX4)	
Slots	3. 2 x PCI Express x1 slots	
	(All PCI Express slots conform to PCI Express 2.0 standard.)	

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	4. 3 x PCI slots
	South Bridge:
Storage	1. 6 x SATA 6Gb/s connectors supporting up to 6 SATA 6Gb/s devices
Interface	2. Support for SATA RAID 0, RAID 1, RAID 5, RAID 10, and JBOD
USB	South Bridge:
	 Up to 12 USB 2.0/1.1 ports (8 on the back panel, 4 via the USB brackets connected to the internal USB headers)
	Etron EJ168 chip:
	1. Up to 2 USB 3.0/2.0 ports
	1. 1 x 24-pin ATX main power connector
	2. 1 x 8-pin ATX 12V power connector
	3. 6 x SATA 6Gb/s connectors
	4. 1 x CPU fan header5. 2 x system fan header
	6. 1 x power fan header
Internal I/O	7. 1 x front panel header
Connectors	8. 1 x front panel audio header
	9. 1 x CD In connector
	10. 1 x S/PDIF In header
	11. 1 x S/PDIF Out header
	12. 2 x USB 2.0/1.1 headers13. 1 x serial port header
	14. 1 x clearing CMOS jumper
Back Panel Connectors	1. 1 x PS/2 keyboard/mouse port
	2. 1 x coaxial S/PDIF Out connector
	3. 1 x optical S/PDIF Out connector
	4. 8 x USB 2.0/1.1 ports
	5. 2 x USB 3.0/2.0 ports
	 1 x RJ-45 port 6 x audio jacks (Center/Subwoofer Speaker Out/Rear Speaker Out/Side Speaker
	© A additional Speaker Such Real Speaker Such Real Speaker Such Side Speaker Such S
I/O Controller	1. ITE IT8720 chip
H/W Monitoring	System voltage detection
	2. CPU/System temperature detection
	CPU/System/Power fan speed detection
	 CPU overheating warning CPU/System/Power fan fail warning
	6. CPU/System fan speed control (Note 3)
BIOS	1. 2 x 16 Mbit flash
	2. Use of licensed AWARD BIOS

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	 3. Support for DualBIOS™ 4. PnP 1.0a, DMI 2.0, SM BIOS 2.4, ACPI 1.0b
Unique Features	 Support for @BIOS Support for Q-Flash Support for Xpress BIOS Rescue Support for Download Center Support for Xpress Install Support for Xpress Recovery2 Support for EasyTune (Note 4) Support for Easy Energy Saver Support for Smart Recovery Support for Auto Green Support for Cloud OC Support for Q-Share
Bundle Software	Norton Internet Security (OEM version)
Operating System	1. Support for Microsoft Windows 7/ Vista/ XP
Form Factor	1. ATX Form Factor; 30.5cm x 22.0 cm
Note	(Note 1) Due to Windows 32-bit operating system limitation, when more than 4 GB of physical memory is installed, the actual memory size displayed will be less than 4 GB. (Note 2) For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot. (Note 3) W hether the CPU/system fan speed control function is supported will depend on the CPU/system cooler you install. (Note 4) Available functions in EasyTune may differ by motherboard model.
Remark	 Due to different Linux support condition provided by chipset vendors, please download Linux driver from chipset vendors' website or 3rd party website. Most hardware/software vendors no longer offer support for Win9X/ME/2000/XP SP1/SP2. If drivers are available from the vendors, we will update them on the GIGABYTE website.

- * The entire materials provided herein are for reference only. GIGABYTE reserves the right to modify or revise the content at anytime without prior notice.
- * Advertised performance is based on maximum theoretical interface values from respective Chipset vendors or organization who defined the interface specification. Actual performance may vary by system configuration.
- * All trademarks and logos are the properties of their respective holders.
- * Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.

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