

MB-a6900

1. Features

- AMD Turion 64 x 2 (TL-52) / Sempron (3500+) CPU Processor Socket 638-pin. (S1 socket)
- 2x 240-pin SO-DIMM Dual Channel, up to 4GB DDRII SDRAM
- ATI RS690T + SB600 chipset
- 2 x 10/100/1000 Base-T Ethernet
- 4 x serial SATA?
- 1x PATA
- 1 x HDMI 1.2
- **TPM 1.2** supporting
- 10 x USB 2.0 ports
- Watchdog Timer & hardware monitoring function
- 6 x RS232 (COM1/2 by TTL levels, COM 3 for RS232/422/485 selectable, COM 4-6 are a RS232 standard and Jumper designed for +5V/+12V option for RI signal)
- 2x PCI slot , 1x PCIe * 1 slot , 1 x PCIe * 8 slot
- 1 x MiniPCI Type-III socket
- Watchdog Timer & hardware monitoring function, **48bit GPIO (24bit In / 24bit out)**
- **L/R Audio out add 5W amplifier.**

1 SPECIFICATIONS 下記仕様は変更される可能性があります。

1.1 Main SPEC

Engineering Specification	
Product Name	MB-a6900
Form Factor	microATX
Processor	AMD Turion 64 x 2 (TL-52) / Sempron (3500+) Processor (Socket 638 Pin, S1 socket)
Chipset	NB: ATI RS690T SB: SB600 chipset
System Memory	Support 2 x 240-pin DIMM up to 4GB DDRII SDRAM(up to 667MHz)
VGA/LCD Controller	ATI RS690T, CRT, LVDS , HDMI or DVI optional
MiniPCI interface	1 x miniPCI Type-III socket
Ethernet	Two Gigabit LAN (PCIe * 1)
BIOS	Phoenix- AWARD PnP Flash BIOS
Audio	AC 97 with ALC883 (7.1 channel) with 5W Amplifier for L/R audio out (Philip TDA1517)
IDE Interface	4 x serial SATA II 300, 1x PATA(1 port) + 1 x eSATA
Serial Port	6 × RS-232 (COM1/COM2 from SIO , COM3 ~ COM6 by Fintek F81216D UART Controller via LPC)
Parallel Port	SPP/ EPP/ ECP mode
K/B and Mouse	1 x PS2 K/B & Mouse
USB port	10 x USB 2.0 compliant
Watchdog Timer	255-Level Reset
GPIO x 48bit	24 in / 24 out (via LPC CPLD digital I/O)
FAN control	1x 4 wire FAN control connector (+5V, +12V, GND, GND for each connector) for CPU, 2X3 wire FAN control connector ,1 for MB, 1 for Chassis
TPM 1.2	Infineon SLB9635 via LPC
Operation Temp.	0°C ~ 60°C (32~140F)
PCB Layers	6 Layers

1.2 I/O Connector

Onboard Bracket

LAN	Two RJ-45 connector with LED
VGA	One 15-pin Female D-Sub stack connector
eSATA	One Esata connector
K/B & MS	One 6-pin wafer header
USB	Four USB

External Function (Follow Arbor's Define)

USB2.0	Three 2x5 pin header (2.54mm)
Parallel Port	One 2x13 Pin Box header (2.54mm)
FDD	One 2x17 Pin Box Header (2.54mm)
IDE	Primary One 20x2 Pin Box Header (2.54mm)
SATA	Four SATA connector
COM	Six 2x5 Pin Header (2.54mm)
Front Panel	One 8x2 Pin Header (2.54mm)
LCD	LVDS: 24-bit
	HDMI / DVI are optional
	TTL: None
Audio	AC97 7.1 Channel
K/B	5-pin wafer connector x 1

1.3 Expansion Slots

Bus Interface	
PCI-E	By PCI Express * 1 x 1 Slot, PCI 32bit/33MHz x 2 Slots, PCIe * 8 x 1 slot

1.4 Others

Power LED	Onboard and Front panel
HDD Active	On Front panel
Power Button	On Front panel
Reset	On Front panel

1.5 OS Support

Operation System	Support	Notes
DOS (include graphic and texture mode)		
Windows 95		
Windows 98		
Windows 98 SE		
Windows ME		
Windows NT4		
Windows 2000 Pro	✓	
Windows 2000 Server	✓	
Windows XP Pro	✓	
Windows Server 2003	✓	
Windows CE 3.0		
Windows CE.net		
Windows XP Embedded	✓	By customers request
Linux Red Hat	✓	
Windows Vista	✓	

1.6 Qualification Plan

Formal certification CE / FCC Class B

1.7 Ordering Information / Product Configuration (TBD)

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MicroATX AMD Processor SBC with ATI RS690T, VGA, SATA, Gigabit

LAN