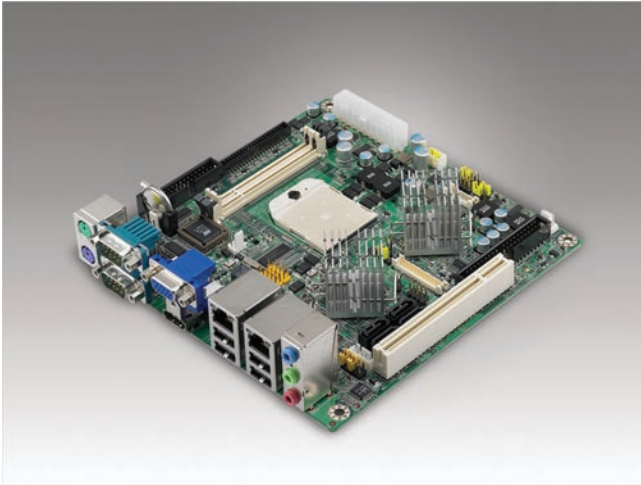


# AIMB-221

## AMD Turion™ and Sempron™ Mini-ITX with VGA/LVDS/HDMI, 6 COM, and Dual LAN



### Features

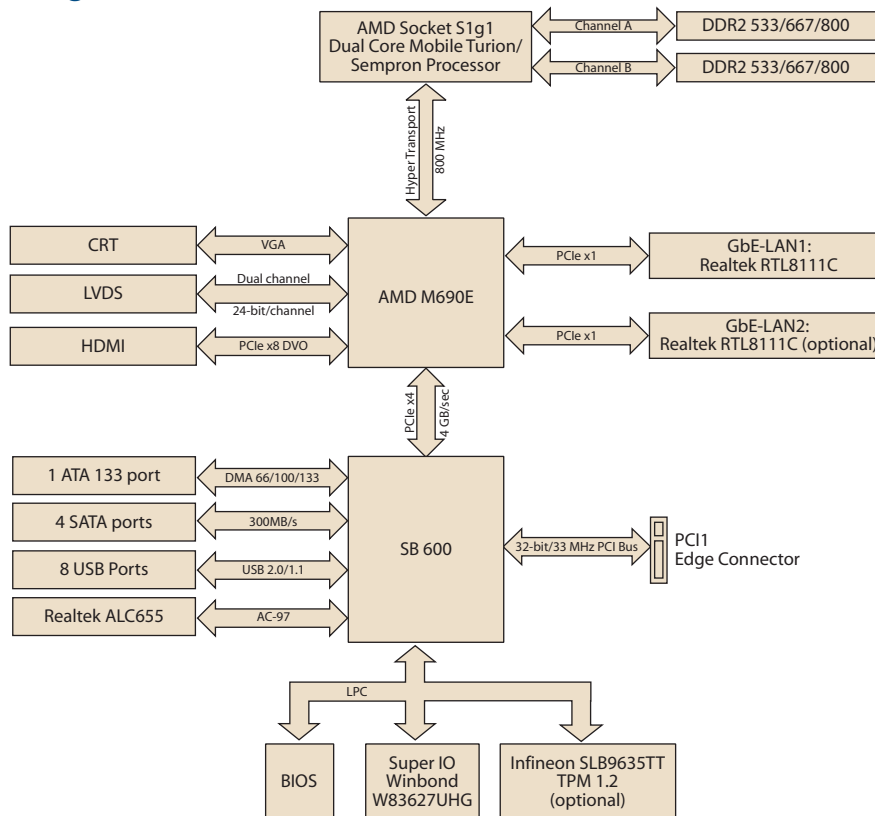
- Supports AMD Turion™ 64 X2 and Sempron™ mobile processor-AMD M690E and SB600
- Two 200-pin SODIMMs, up to 4 GB DDR2 533/667/800 SDRAM
- Supports dual display for VGA, HDMI, LVDS
- Supports 6 serial ports and 4 SATA 2.0 ports
- Supports TPM (optional)
- Supports software RAID 0 and 1



### Specifications

Processor System	CPU (65 nm S1g1)	AMD Turion 64 X2 TL-62	AMD Turion 64 X2 TL-56	AMD Sempron 3700+	AMD Sempron 2100+
	Max. Speed	2.1 GHz (dual core)	1.8 GHz (dual core)	2.0 GHz	1.0 GHz
	Hyper Transport Speed	800 MHz	800 MHz	800 MHz	800 MHz
	L2 Cache	1 MB	1 MB	512 KB	256 KB
	Chipset	AMD M690E and SB 600			
	BIOS	Award 4 Mbit via LPC			
Expansion Slot	PCI	32-bit/33 MHz, 1 slot			
	Mini-PCI	32-bit/33 MHz, 1 slot			
	PCIe	-			
Memory	Technology	Dual channel DDR2 533/667/800 MHz			
	Max. Capacity	4 GB			
	Socket	2 x 200-pin SODIMMs			
Graphics	Controller	AMD M690E Integrated ATI Radeon X1250-based graphic engine			
	VRAM	Share system memory up to 512 MB video memory			
	LVDS	Single channel 18/24-bit Dual channel 36/48-bit LVDS			
	HDMI	Supports HDMI 1.2, 1650 Mbps/channel with 165 MHz			
	DVI	-			
	Dual Display	CRT + LVDS, CRT + HDMI, HDMI + LVDS			
Ethernet	Interface	10/100/1000 Mbps			
	Controller	GbE LAN1: Realtek RTL8111C; GbE LAN2: Realtek RTL8111C			
	Connector	RJ-45 x 2			
SATA	Max Data Transfer Rate	300 MB/s			
	Channel	4 (supports software RAID 0 and 1)			
EIDE	Mode	EIDE (Ultra DMA 133)			
	Channel	1			
SSD	CompactFlash	Supports CompactFlash Type I/II			
	VGA	1			
Rear I/O	HDMI	1			
	Ethernet	2			
	USB	4 (USB 2.0 compliant)			
	Audio	3 (Mic-in, Line-out, Line-in)			
	Serial	2 (COM 1: RS-232; COM 2: RS-232/422/485)			
	PS/2	2 (1 x keyboard and 1 x mouse)			
	LVDS	1			
	DVI	-			
Internal Connector	USB	4 (USB 2.0 compliant)			
	Serial	4 (RS-232)			
	IDE	1			
	SATA	4			
	CompactFlash	1			
	Parallel	1			
	IrDA	-			
	FDD	-			
	DIO	8-bit General Purpose I/O for DI and DO			
	Watchdog Timer	Output	System reset		
Interval		Programmable 1 ~ 255 sec/min			
Power Requirement	Power On	Turion 64 X2 TL-62 2.1GHz HT 800 MHz, 4GB DDR2 SDRAM			
		+5 V	+3.3 V	+12 V	
		3.45 A	0.72 A	2.45 A	
Environment		Operating		Non-Operating	
	Temperature	0 ~ 60° C (32 ~ 140° F)		-20 ~ 70° C (-4 ~ 158° F)	
Physical Characteristics		170 mm x 170 mm (6.69" x 6.69")			
	Dimensions				

## Board Diagram



## Ordering Information

Part Number	GbE	Mini PCI	CF	COM
AIMB-221G2-00A1E	2	1	1	6

## Riser Card

Part Number	Description
AIMB-RP30P-03A1E	2U riser card with 3 PCI slot expansion

## Bracket View



AIMB-221G2-00A1E

## Packing List

Description	Quantity
AIMB-221 SBC	x 1
IDE HDD cable (40-pin)	x 1
SATA HDD data cable	x 2
SATA HDD power cable	x 2
CPU cooler	x 1
I/O port bracket	x 1
Startup manual	x 1
Driver CD	x 1

## Accessories

Part Number	Description
1700003195	USB cable with two ports, 17.5 cm
1700002204	USB cable with two ports, 27 cm
1700002314	USB cable with four ports, 30.5 cm
1701400181	IDC 40P/4 com cable, 18 cm
1700000821	DVI cable 24P/DF13-20P w/ bracket
1700001577	DVI cable 24P/DF13-20P 20 cm w/o bracket
1700008809	Printer port cable, 25 cm, w/ bracket