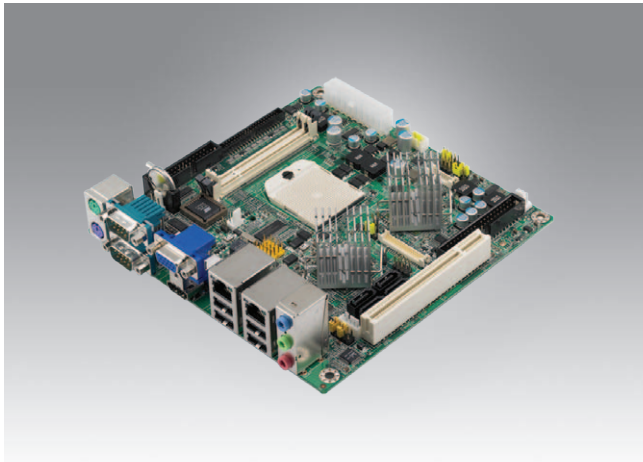


# AIMB-221

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



## 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 MHz SDRAM
- Supports dual display for VGA, HDMI, LVDS
- Supports 6 serial ports, 4 SATA 2.0 ports and TPM (optional)
- Supports embedded software APIs and utilities

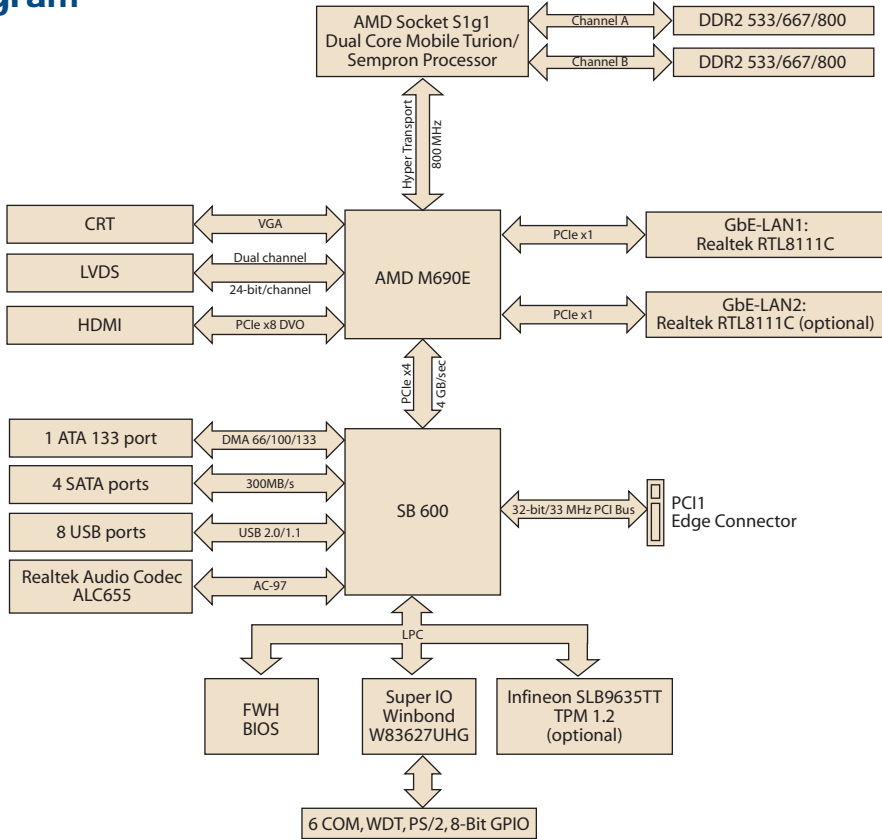
Software APIs:   

Utilities:  

## 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, FWH			
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 SDRAM			
	Max. Capacity	4 GB			
	Socket	2 x 200-pin SODIMMs			
Graphics	Controller	AMD M690E Integrated ATI Radeon X1250-based graphic engine			
	VRAM	Shared 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 Requirements	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	0 ~ 60° C (32 ~ 140° F)			Non-Operating
	Temperature				-20 ~ 70° C (-4 ~ 158° F)
Physical Characteristics	Dimensions	170 mm x 170 mm (6.69" x 6.69")			

### Board Diagram



### Ordering Information

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

### Optional Accessories

Part Number	Description
1700003195	USB cable with two ports, 17.5 cm
1700002204	USB cable with two ports, 27 cm
1700008461	USB cable with four ports, 30.5 cm
1700008809	Printer port cable, 25 cm, w/ bracket

### Packing List

Part number	Description	Quantity
1701400452	IDE HDD cable (40-pin)	1
1700003194	SATA HDD cable	2
1700017461	SATA power cable	2
1750001620	CPU cooler	1
1960019192T100	I/O port bracket	1
2006022110	Startup manual	1
2066022100	Driver CD	1

### Embedded OS/API

OS/API	Part No.	Description
Win XPE	2070004329	XPE SP2 FP2007AIMB-221 V3.5 ENG
	2070005291	XPE FP2007 AIMB-221 V3.5.0 JPN_ENG
Software API	205E000021	SUSI 3.0 SW API for AIMB-221 XP

### I/O View



AIMB-221G2-00A1E

