

AIMB-221

AMD 64 X2 Dual Core Mini ITX Motherboard Support Dual Display, Dual GbE, and 6 COM

Preliminary



Features

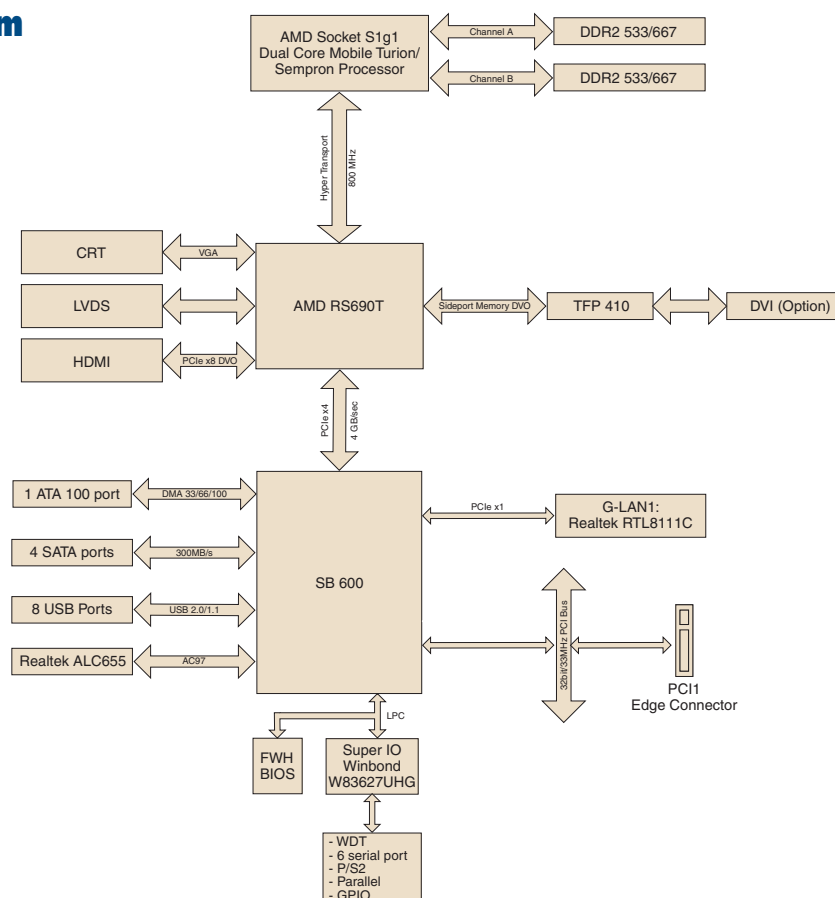
- Supports AMD Turion 64X2 and Sempron mobile processor-AMD RS690T and SB600
- Two 200-pin SO-DIMMs up to 4 GB DDR2 533/667/800 SDRAM
- Supports HDMI output
- Supports 6 serial ports and 4 SATA 2.0 port
- Support TPM (Optional)



Specifications

Processor System	CPU	AMD Turion 64 X2 TL-62	AMD Sempron 3700+
	Max. Speed	2.2 GHz	2.0 GHz
	Hyper Transport Speed	800 MHz	800 MHz
	L2 Cache	1 MB	1 MB
	Chipset	AMD RS690T and SB 600	
Expansion Slot	BIOS	Award 16 Mb FWH	
	PCI	1	
	Mini-PCI	1	
	PCIe	None	
Memory	Technology	DDR2 533/667/800 SDRAM	
	Max. Capacity	4 GB	
	Socket	Two 200-pin SODIMM sockets	
Graphic	Controller	AMD RS690T Integrated ATI Radeon X1250-base 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	1650 Mbps	
	DVI	None	
	Dual Display	CRT + LVDS, CRT+HDMI, HDMI+LVDS	
Ethernet	Interface	10/100/1000Base-T	
	Controller 1	LAN 1 Realtek RTL 8111C Controller	
	Controller 2	LAN 2 Realtek RTL 8111C Controller (Option)	
	Connector	1 (RJ45)	
SATA	Max Data Transfer Rate	300 MB/s	
	Channel	4	
EIDE	Mode	EIDE (Ultra DMA 133)	
	Channel	1	
Rear I/O	VGA	VGA	
	HDMI	1	
	Ethernet	1 (2 Option)	
	USB	4 (USB 2.0 ports)	
	Serial	2 (COM 1: RS-232; COM 2: RS-232/422/485)	
	PS/2	2 (1 x K/B and 1 x Mouse)	
Internal Connector	LVDS	1	
	DVI	1 (Option)	
	USB	4 (USB 2.0 ports)	
	Serial	4 (RS-232)	
	IDE	1	
	SATA	4	
	Audio	MIC-In, Line-out	
	Compact Flash	1	
	Parallel	1	
	IrDA	115k bps, IrDA 1.0 compliant	
Watchdog Timer	FDD	None	
	DIO	8-bit General Purpose I/O for DI and DO	
	Output	Interrupt, system reset	
Power Requirement	Interval	Programmable 1 ~ 255 sec	
	Typical	TBD	
		TBD	
Environment		Operating	
	Temperature	0 ~ 60° C (32 ~ 140° F)	
Physical Characteristics	Dimensions	170 mm x 170 mm (6.69" x 6.69")	

Block Diagram



Ordering Information

Part Number	Specification
AIMB-221G2-00A1E	AMD Dual Core S1g1 Socket Mini-ITX motherboard with HDMI, VGA, LVDS, CF, Dual GbE, 6 COM, 4 SATA, 8 USB, and TPM.
AIMB-221VG-00A1E	AMD Dual Core S1g1 Socket Mini-ITX motherboard with VGA, LVDS, CF, GbE, 6 COM, 4 SATA, and 8 USB

Bracket View



AIMB-221G2-00A1E



AIMB-221VG-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