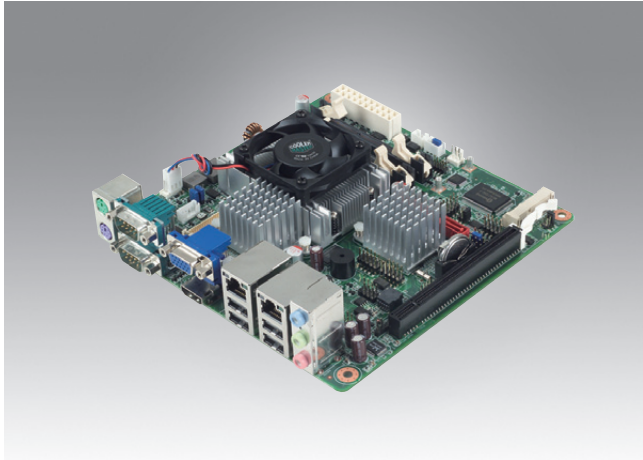


AIMB-222

AMD Mobile Athlon™ II Neo/Turion™ II Neo Mini-ITX with CRT/LVDS/HDMI/DVI, 4 COM and Dual LAN



Features

- Supports AMD Mobile Athlon™ II Neo/AMD Turion™ II Neo ASB2 BGA processors
- Two 204-pin SODIMM up to 4 GB DDR3 1066 MHz SDRAM
- Supports CRT/LVDS/HDMI, DVI is optional
- Dual LANs, 4COM, Mini PCIe, and CFast
- Supports SUSIAccess and Embedded Software APIs

Software APIs:

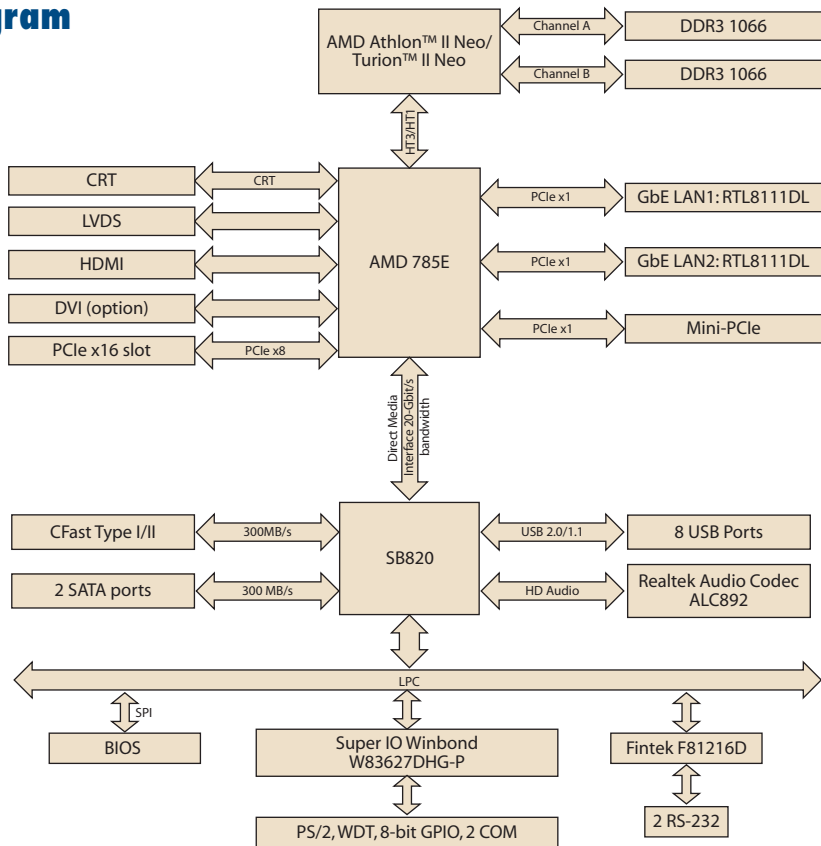
Utilities:

Note: eSOS requires ODM BIOS, available by request

Specifications

Processor System	CPU	AMD Turion II Neo	AMD Turion II Neo	AMD Athlon II Neo	
	Max. Speed	2.2 GHz (dual-core 25W TDP)	1.5 GHz (Dual-Core 15W TDP)	1.7 GHz (Single-Core 12W TDP)	
	L2 Cache	2 MB			
	Chipset	AMD 785E + SB820			
	BIOS	AMI 16 Mbit SPI			
Expansion Slot	PCI	-			
	Mini-PCIe	1			
	PCIe	PCIe x8 (PCIe gen 2)			
Memory	Technology	Dual channel DDR3 1066 MHz SDRAM			
	Max. Capacity	4 GB			
	Socket	2 x 204-pin SODIMM (Non-ECC)			
Graphics	Controller	ATI Radeon™ HD4200 serial, supports OpenGL 2.0, DirectX10, H.264, VC1			
	VRAM	Side port memory 128 MB (Optional)			
	CRT	Supports up to 2560 x 1536 @ 32bpp			
	LVDS	Supports 24-bit dual channel and up to 1920 x 1200			
	DVI (optional)	1920 x 1200 @ 60 MHz			
	HDMI	1920 x 1200 @ 60 MHz			
	Dual Display	Supports dual display of any two display device (CRT, LVDS, HDMI, DVI)			
Ethernet	Interface	10/100/1000 Mbps			
	Controller	GbE LAN1: RTL8111DL; GbE LAN2: RTL8111DL			
	Connector	RJ-45 x 2			
SATA	Max Data Transfer Rate	300 MB/s			
	Channel	2			
EIDE	Mode	None			
	Channel	None			
SSD	CFast CompactFlash	CFast type I/II			
Rear I/O	CRT	1			
	HDMI	1			
	Ethernet	2			
	USB	4			
	Audio	3 (Mic-in, Line-out, Line-in)			
	Serial	2 (RS-232)			
Internal Connector	LVDS & Inverter	1			
	DVI	1 (optional)			
	USB	4 (USB 2.0 compliant)			
	Serial	2 (RS-232, 5V/12V by jumper selection)			
	IDE	None			
	SATA	2			
	CFast CompactFlash	1			
	Parallel	None			
	GPIO	8-bit			
Watchdog Timer	Output	System reset			
	Interval	Programmable 1 ~ 255 sec/min			
Power Requirement	Power On	AMD Turion II Neo Dual Core Processor, 4GB DDR3 DIMM			
		+5 V	+ 3.3 V	+12 V	+5 VSB
		2.88 A	0.89 A	1.79 A	0.09 A
Environment		Operating	Non-Operating		
	Temperature	0 ~ 60° C (32 ~ 140° F)	-40 ~ 85° C (-40 ~ 185° F)		
Physical Characteristics	Dimensions	170 mm x 170 mm (6.69" x 6.69")			

Block Diagram



Ordering Information

Part Number	CPU	Display	LAN	COM
AIMB-222G2-S0A1E	1.7 GHz	CRT/LVDS/HDMI	2	4
AIMB-222G2-S1A1E	1.5 GHz	CRT/LVDS/HDMI	2	4
AIMB-222G2-S2A1E	2.2 GHz	CRT/LVDS/HDMI/DVI	2	4

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

Packing List

Description	Quantity
AIMB-222 SBC	1
SATA HDD cable	2
Serial port cable	1
SATA power cable	2
I/O port bracket	1
Startup manual	1
Driver CD	1

Embedded OS/API

OS/API	Part No.	Description
Win XPE	2070010940	WES09 AIMB-222 V4.0 ENG ATIP
Software API	TBD	SUSI V3.0 SW API for AIMB-222 XP

I/O View



AIMB-222G2-S0A1E
AIMB-222G2-S1A1E
AIMB-222G2-S2A1E