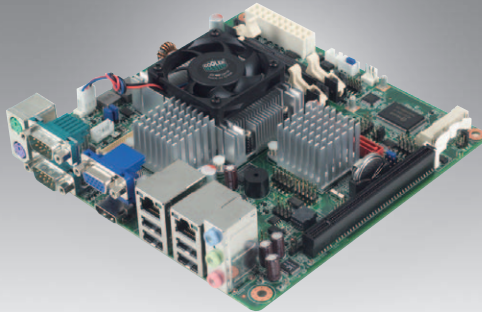


# AIMB-222

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

NEW



### 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 VGA/LVDS/HDMI, DVI is optional
- Dual LANs, 4COM, Mini PCIe, and CFast
- Supports embedded software APIs and Utilities

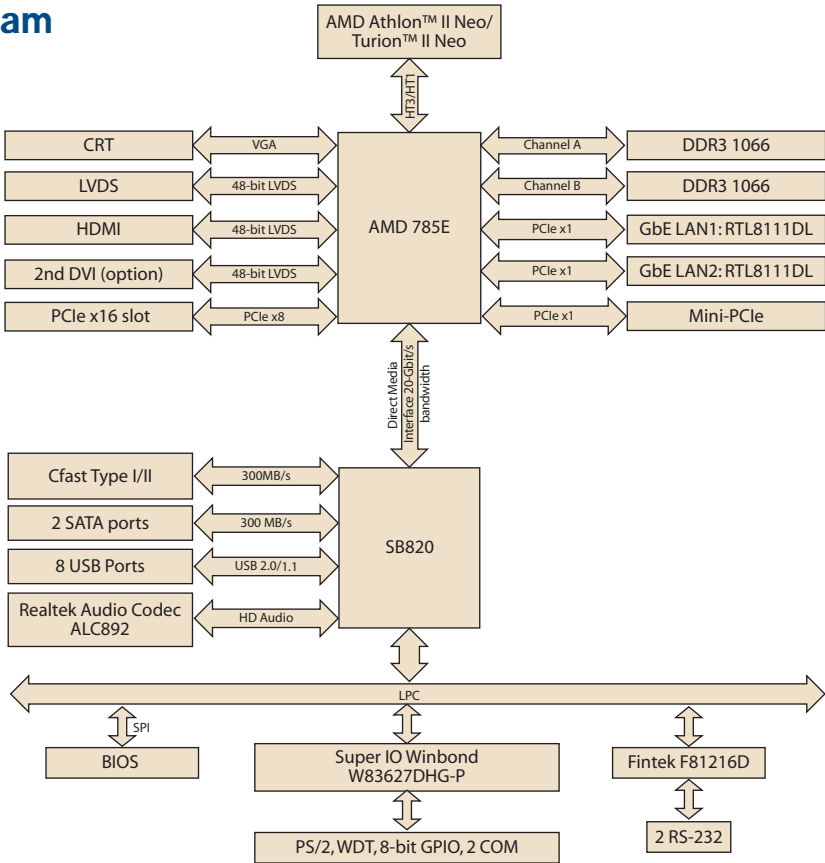


Note: eSOS requires ODM BIOS, available by request

### 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		
Memory	PCIe	PCIe x8 (PCIe gen 2)		
	Technology	Dual channels DDR3 1066 MHz SDRAM		
	Max. Capacity	4 GB		
	Socket	2 x 204-pin SODIMM		
Graphics	Controller	ATI Radeon™ HD4200 serial, supports OpenGL 2.0, DirectX10, H.264, VC1		
	VRAM	Side port memory 128 MB (Optional)		
	VGA	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	VGA	1		
	DVI	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
		2.88 A	0.89 A	1.79 A
				+5 VSB
Environment				0.09 A
	Operating	0 - 60° C (32 - 140° F)		
Physical Characteristics	Non-Operating	-40 - 85° C (-40 - 185° F)		
	Dimensions	170 mm x 170 mm (6.69" x 6.69")		

**Board 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	2
CPU cooler	1
I/O port bracket	1
Startup manual	1
Driver CD	1

**Embedded OS/API**

OS/API	Description
Win XPE	XPE WES 2009
Software API	SUSI V3.0

**I/O View**



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

