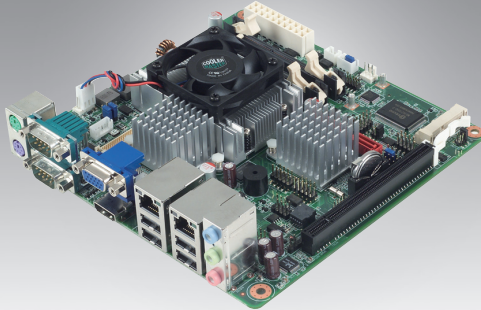


# AIMB-222

## AMD Mobile Athlon™ II Neo/Turion™ II Neo ASB2 BGA processors Neo Mini ITX with VGA/LVDS/HDMI/DVI, 4 COM and Dual LAN

Preliminary



### 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

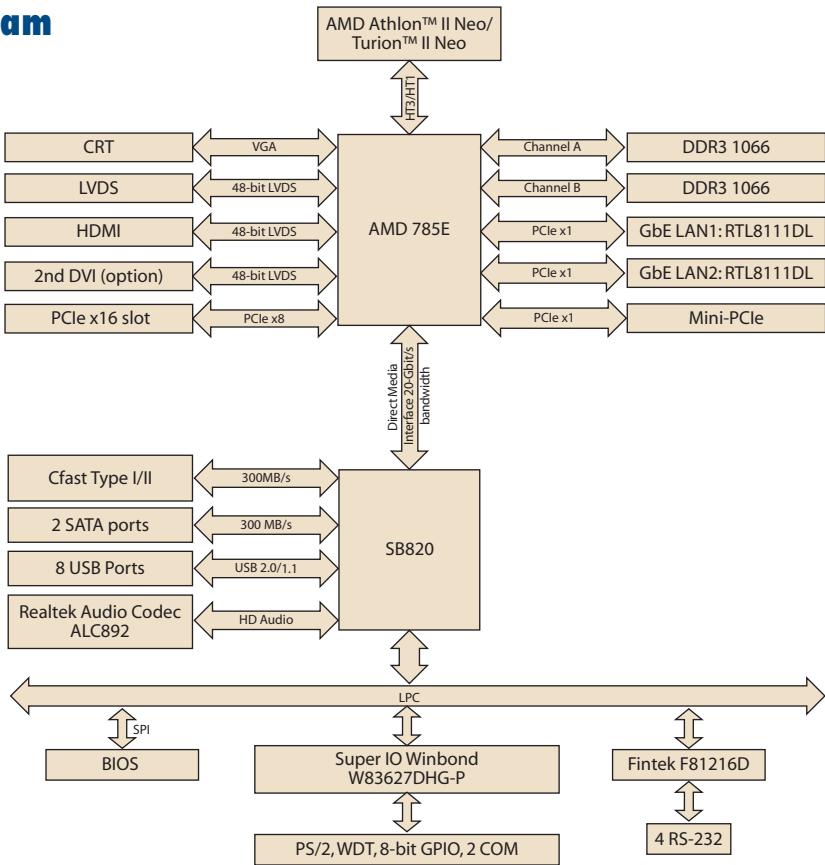


Note: eSOS requires ODM BIOS, available by request

### 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		
	PCIe	PCIe x8 (PCIe gen 2)		
Memory	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	TBD		
	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)			
	Interface	10/100/1000 Mbps		
Ethernet	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		
Watchdog Timer	GPIO	8-bit		
	Output	System reset		
Power Requirement	Interval	Programmable 1 ~ 255 sec/min		
	Typical	TBD		
Environment	Operating	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")		

**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

**Packing List**

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

**I/O View**

