AIMB-212

Intel® Atom™ N450/D510 Mini-ITX with CRT/LVDS, 6 COM, and Dual LAN



Features

- Supports Intel® Atom™ processor N450 and D510 dual core
- One 200-pin SO-DIMM up to 2 GB DDR2 667 MHz SDRAM
- Supports 1 PCI and 1 Mini-PCIe expansion, 6 serial ports, 8 USB, and CF
- Lower total cost of ownership with DC12V support
- Supports SUSIAccess and Embedded Software APIs

Software APIs:





















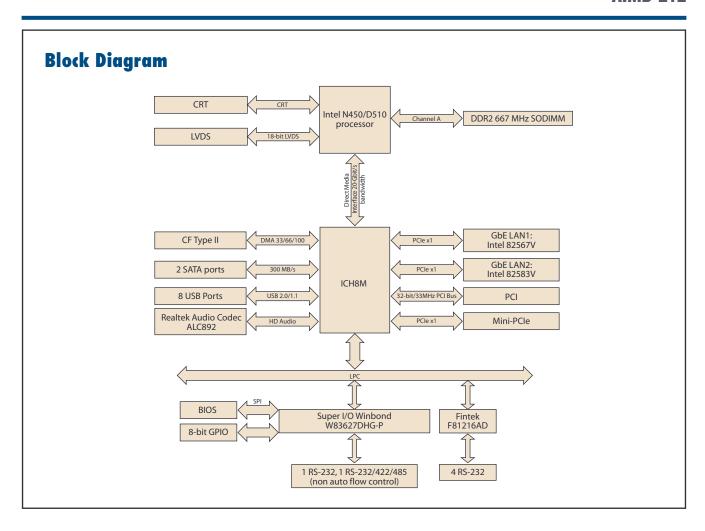






Specifications

	CPU (45 nm)	Intel Atom N450	Intel Atom D510	
	Max. Speed	1.6 GHz (single core)	1.66 GHz (dual core)	
Processor System	L2 Cache	512 KB	1 MB	
	Chipset	ICH8M		
	BIOS	AMI 16 Mbit PSI		
	PCI	32-bit/33 MHz, 1 slot		
Expansion Slot	Mini-PCle	1		
	PCle	-		
	Technology	Single channel DDR2 667 MHz not co	mpatible with DDR2 533MHz	
Memory	Max. Capacity	2 GB		
	Socket	1 x 200-pin SO-DIMM (Non-ECC)		
	Controller		0-MHz render clock frequency for N450/D510	
	VRAM	Shared system memory up to 224 MB		
Graphics	VGA		60Hz for Atom N450, up to 2048 x 1536 for Atom D510	
агартноз	LVDS	Supports 18-bit single channel and up	to WXGA 1366 x 768	
	TV-out	None		
	Dual Display	CRT + LVDS, support extended mode	and clone mode	
	Interface	10/100/1000 Mbps		
Ethernet	Controller	GbE LAN1: Intel 82567V; GbE LAN2:	ntel 82583V	
	Connector	RJ-45 x 2		
SATA	Max Data Transfer Rate	300 MB/s (SATA 2.0)		
	Channel	2		
EIDE	Mode	None		
	Channel	None		
SSD	CompactFlash	Supports CompactFlash Type I/II		
	CRT	1		
	Ethernet	2		
D1/0	USB	4 (USB 2.0)		
Rear I/O	Audio	3 (Mic-in, Line-out, Line-in)		
	Serial	3 (2 x RS-232,1 x RS-232/422/485)		
	Parallel	1 (0 5)		
	DC Jack	1 (2.5 mm)		
	LVDS & Inverter			
	USB Serial	4 (USB 2.0)		
	IDE	3 (RS-232)		
Internal Connector	SATA	None		
Internal Connector		2 (SATA 2.0)		
	SATA PWR Connector	2		
	CompactFlash	•		
	Parallel	None		
	DIO	8-bit GPIO		
Watchdog Timer	Output	System reset		
•	Interval	Programmable 1 ~ 255 sec/min	and DC instructional A pin (0,0) narray connector Connecto AT/ATV	
Dawar	Power Type		rnal DC jack; 1 x Internal 4-pin (2x2) power connector; Supports AT/ATX mode	
Power	Power Consumption	wer Consumption 12 V @ 3.4 A (Intel D510 1.66 GHz processor/DDR2 800 MHz 2 GB, SATA HDD x1)		
		12 V @ 2.73 Å (Intel N455 1.66 GHz processor/DDR2 800 MHz 2GB, SATA HDD x1)		
F 1	_	Operating	Non-Operating	
Environment	Tomporaturo	0 60° C (22 140° E)	10 06° C (10 106° L)	
Physical Characteristics	Temperature Dimensions	0 ~ 60° C (32 ~ 140° F) 170 mm x 170 mm (6.69" x 6.69")	-40 ~ 85° C (-40 ~ 185° F)	



Ordering Information

Part Number	CPU	SC/DC	GbE	COM	LVDS	Thermal Solution
AIMB-212N-S6A1E	Atom N450	Single core	2	6	1, 18-bit	Passive
AIMB-212D-S6A1E	Atom D510	Dual core	2	6	1, 18-bit	Active

Note: Passive = fanless; Active = with fan

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
1757003995	Adapter AC100-240V 60W +12V/5A
1700018699	KB/MS cable 1*6P-2.5/DIN-6P (F)*2, 25 cm

I/O View



AIMB-212N-S6A1E AIMB-212D-S6A1E

Optional Chassis

Part Number	Description
AIMB-B2000-00YE	Mini-ITX chassis with optional DC Adaptor

Packing List

Part number	Description	Quantity
1700003194	SATA HDD cable	2
1700017461	SATA power cable	2
1700001788	Serial port cable	3
1960046526N001	CPU cooler (For Atom D510 only)	1
1960046435T000	I/O port bracket	1
2002021210	Startup manual	1
2062021200	Driver CD	1

Embedded OS/API

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OS/API	Part No.	Description
Win XPE	2070009861	XPE WES2009 AIMB-212 V4.0 JPY
Win CE	2070009695	CE 6.0 Pro AIMB-212 V1.3 ENG
WIII GE	2070011085	CE 7.0 Pro AIMB-212 V1.0 ENG
Software API	205E212000	SUSI 3.0 SW API for AIMB-212 B:20091115 XP