# **AIMB-212**

## Intel® N450/D510 Mini-ITX with VGA/LVDS, 6 COM, and Dual LAN



#### **Features**

- Support Intel® Atom N450 and D510 dual core processor
- One 200-pin SODIMM up to 2 GB DDR2 667 MHz SDRAM
- Support 1 PCI and 1 Mini-PCIe expansion, 6 serial ports, 8 USB, and CF
- Lower total cost of ownership with DC12V support
- Supports embedded software APIs and Utilities

Software APIs:























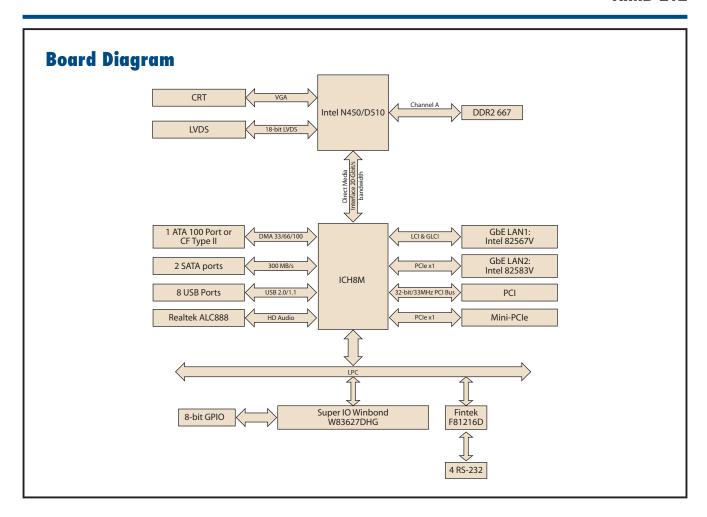




Note: eSOS need ODM BIOS by request

#### **Specifications**

	CPU (45 nm)	Intel Atom N450	Intel AtomD510	
	Max. Speed	1.66 GHz (single core)	1.66 GHz (dual core)	
Processor System	L2 Cache	512 KB	1 MB	
1 10003301 Oystoffi	Chipset	ICH8M	I IVID	
	BIOS	AMI 16 Mbit PSI		
	PCI	32-bit/33 MHz, 1 slot		
F : 01 :				
Expansion Slot	Mini-PCle	1		
	PCle	-	W.L. W. D.D.D.G.O. A.W.	
	Technology	Single channel DDR2 667 MHz not co	mpatible with DDR2533 MHz	
Memory	Max. Capacity	2 GB		
	Socket	1 x 200-pin SODIMM		
	Controller		00-MHz render clock frequency for N450/D510	
	VRAM	Shared system memory up to 224 ME		
Graphics	VGA	Supports up to SXGA 1400 x 1050 @	60Hz for Atom N450, up to 2048 x 1536 for Atom D510	
diapilios	LVDS	Supports 18-bit single channel and u	o 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:	Intel 82583V	
	Connector	RJ-45 x 2	······································	
	Max Data Transfer Rate	300 MB/s		
SATA	Channel	2		
	Mode	None		
EIDE	Channel	None		
SSD	CompactFlash	Supports CompactFlash Type I/II		
000	VGA	1		
	Ethernet	2		
	USB	4 (USB 2.0 compliant)		
Poor I/O	Audio	3 (Mic-in, Line-out, Line-in)		
Rear I/O				
	Serial	3 (2 of RS-232,1 of RS-232/422/485)		
	Parallel	- 1 (0.5		
	DC jack	1 (2.5 mm)		
	LVDS & Inverter	1		
	USB	4 (USB 2.0 compliant)		
	Serial	3 (RS-232)		
	IDE	None		
Internal Connector	SATA	2		
	SATA PWR connector	2		
	CompactFlash	1		
	D 11.1	None		
	Parallel	140110		
	DIO Parallel	8-bit GPIO		
W. I. I. T.	DIO			
Watchdog Timer	DIO Output	8-bit GPIO System reset		
	DIO Output Interval	8-bit GPIO System reset Programmable 1 ~ 255 sec/min		
Power Requirement	DIO Output	8-bit GPIO System reset Programmable 1 ~ 255 sec/min DC 12V Input (Tolerance ±10%)	Non-Operating	
	DIO Output Interval	8-bit GPIO System reset Programmable 1 ~ 255 sec/min	Non-Operating -40 ~ 85° C (-40 ~ 185° F)	



### **Ordering Information**

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

#### **Bracket View**



## **Packing List**

Description	Quantity
AIMB-212 SBC	x 1
SATA HDD cable	x 2
SATA power cable	x 2
Serial port cable	x 3
CPU cooler (For Atom D510 only)	x 1
I/O port bracket	x 1
Startup manual	x 1
Driver CD	x 1

#### Accessories

Part Number	Description
1700003195	USB cable with four ports, 17.5 cm
1700002204	USB cable with four ports, 27 cm
1700002314	USB cable with four ports, 30.5 cm
1757003062	Adapter AC100-240V 60W +12V/5A