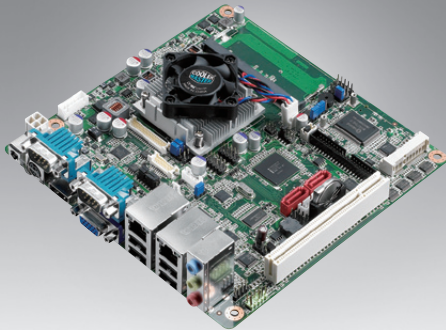


# AIMB-214

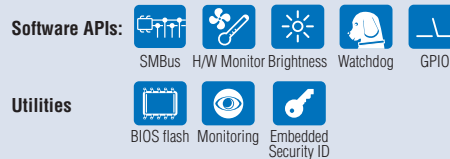
Intel® Atom™ N2600/D2550 Mini-ITX with CRT/HDMI/2LVDS, 6COM, and Dual LAN ports

**NEW**



## Features

- Supports Intel® Atom™ processor N2600, and D2550 dual core
- One 204-pin SODIMM up to 4 GB DDR3 1066 MHz SDRAM
- Supports 1 PCI and 1 Mini-PCIe expansion, 6 serial ports, 6 USB, and CFast
- Lower total cost of ownership with DC12V support, and supports 24/48-bit LVDS
- Onboard TPM 1.2 support (optional)
- Supports susiAccess and Embedded Software APIs



Note: eSOS requires ODM BIOS, available by request

## Specifications

Processor System	CPU (32nm)	Intel Atom N2600	Intel Atom D2550
	Max. Speed	1.6 GHz (Dual core)	1.86GHz(Dual core)
	L2 Cache	512 KB	512 KB*2
	Chipset	NM10	NM10
	BIOS	AMI 16Mbit SPI	AMI 16Mbit SPI
Expansion Slot	PCI	32-bit/33 MHz, 1 slot	
	Mini-PCIe	1	
	PCIe	-	
Memory	Technology	Single channel DDR3 1066 MHz SDRAM	
	Max. Capacity	4 GB	
	Socket	1 x 204 pin SODIMM (Non-ECC)	
Graphics	Controller	Embedded Gen3.5+ GFX Core, 400/640 MHz render clock frequency for N2600/D2550	
	VRAM	Shared system memory up to 224 MB SDRAM	
	VGA	Support up to SXGA 1920 x 1200 @ 60 MHz	
	LVDS	LVDS1 Support 24-bit dual channel : Max. resolution up to 2560 x 1600 (D2550); 1600 x 1200 (N2600), co-layer eDP port (optional) LVDS2 Support 24-bit single channel up to 1400 x 800 on D2550; 1366 x 768 on N2600	
	HDMI	Support up to 1920 x 1200 @ 60 MHz	
Dual Display	VGA+HDMI, VGA+LVDS, VGA+eDP (optional), Support extended mode and clone mode		
Ethernet	Interface	10/100/1000 Mbps	
	Controller	GbE LAN1: Intel 82574L/82583V co-layer GbE LAN2: Intel 82583V	
	Connector	RJ-45 x 2	
SATA	Max Data Transfer Rate	300 MB/s	
	Channel	2	
EIDE	Mode	None	
	Channel	None	
SSD	CFast CompactFlash	Support CFast Type I/II	
Rear I/O	CRT	1	
	HDMI	1	
	Ethernet	2	
	USB	4 (USB 2.0 compliant)	
	Audio	3 (Mic-in, Line-out, Line-in)	
	Serial	2 (1 of RS-232, 1 of RS-232/422/485)	
	KB/MS	1	
	DC jack	1 (2.5 mm)	
Internal Connector	LVDS & Inverter	2	
	eDP	1 (optional, by removing LVDS1)	
	USB	2 (USB 2.0 compliant)	
	Serial	4 (RS-232), only COM6 supply 5V/12V	
	IDE	None	
	SATA	2	
	SATA PWR connector	2	
	CFast	1	
Watchdog Timer	Output	System reset	
	Interval	Programmable 1 ~ 255 sec/min	
Power	Power type	Single voltage 12V DC input; 1 x External DC jack; 1 x Internal 4-pin (2x2) power connector; Support AT/ATX mode	
	Typical power consumption	Windows IDOL: 17.8 W (Intel N2600 1.6 GHz processor/DDR3 1333 MHz 4 GB)	
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	SC/DC	GbE	COM	LVDS	TPM	Thermal solution
AIMB-214E-S6A1E	D2550	Dual core	2	6	2, LVDS1: 48bit LVDS; LVDS2: 24bit LVDS	Yes	Active
AIMB-214U-S6A1E	N2600	Dual core	2	6	2, LVDS1: 48bit LVDS; LVDS2: 24bit LVDS	No	Passive

Note: Passive = fanless; Active = with fan

### Packing List

Description	Quantity
SATA HDD cable	2
SATA power cable	2
1-to-4 serial ports cable kit, 35 cm	1
CPU cooler (For Atom D2550 only)	1
I/O port bracket	1
Startup manual	1
Driver CD	1

### 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
1757003062	Adapter AC100-240V 60W +12V/5A(Delta)
1700018699	KBMS cable 1*6P-2.5/DIN-6P(F)*2, 25 cm

### I/O View



AIMB-214E-S6A1E  
AIMB-214U-S6A1E

### Embedded OS/API

OS/API	Part No.	Description
Win Embedded	2070010955	WES7E SP1 x32 AIMB-214 V5.1 ENG ATIP
Win XPE	TBD	WES XPE AIMB-214(Released in Q4 2012)
Software API	TBD	SUSI V3.0 SW API for AIMB-214 WIN7