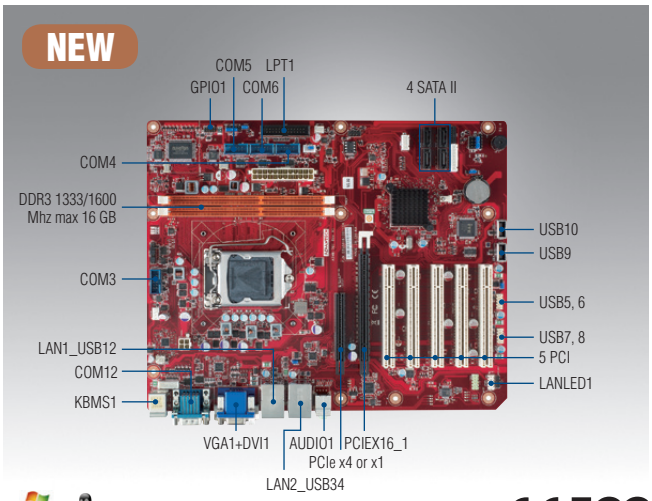
AIMB-701

LGA1155 Intel® Core™ i7/i5/i3/Pentium ATX with DVI/VGA, Dual GbE LAN



Features

- Supports Intel® Core™ i7/i5/i3/Pentium processor with H61 chipset
- Two DIMM sockets support up to 16 GB DDR3 1066/1333/1600
- Supports dual display VGA/DVI-D and dual GbE LAN
- Supports RS232/422/485 with auto flow control
- Supports One PCIe x16 and 5 PCI expansion slots

Software APIs: SMBus, H/W Monitor, Watchdog

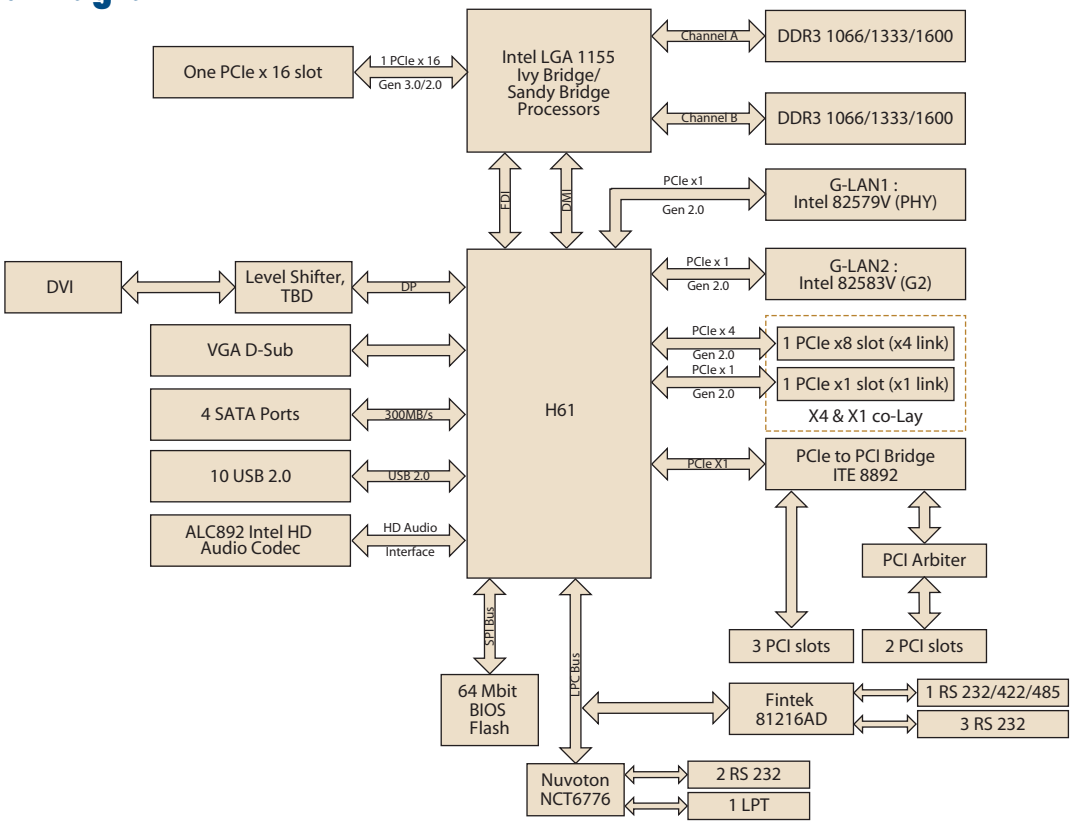
Utilities: Monitoring

Specifications

Processor System	CPU	Core i7 3xxx/2xxx	Core i5 3xxx/2xxx	Core i3 3xxx/2xxx	Pentium G8xx
	Speed	3.4 GHz	3.4/3.3 GHz	3.4 GHz	2.9 GHz
	L3 Cache	8 MB	6 MB	3 MB	3 MB
	Socket	LGA1155			
	Chipset	H61			
	BIOS	AMI 64 Mbit SPI			
Expansion Slot	PCI	32-bit/33 MHz, 5 slots			
	PCIe x 1 (Gen2)	500MB/s, 1 slot for G2 SKU			
	PCIe x 4 (Gen2)	2.0GB/s, 1 slot for VG SKU			
	PCIe x16 (Gen3)	16 GB/s, 1 slot (PCIe Gen3 is supported by Core i7/i5 3xxx series processors)			
Memory	Technology	Dual Channel DDR3 1066/1333/1600 (1600 is only supported by Core i7/i5/i3 3xxx series processors)			
	Max. Capacity	16 GB			
	Socket	2 x 240-pin DIMM			
Graphics	Controller	Intel HD Graphics			
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed			
Ethernet	Interface	10/100/1000 Mbps			
	Controller	GbE LAN1: Intel 82579V, GbE LAN2: Intel 82583V			
	Connector	RJ-45 x 2			
SATA	Max Data Transfer Rate	300 MB/s			
	Channel	4			
Rear I/O	VGA	1			
	DVI	1 for G2 version			
	Ethernet	2 for G2 version; 1 for VG version			
	USB	4			
	Audio	2 (Mic-in, Line-out)			
	Serial	2 (RS-232)			
	PS/2	2 (1 x keyboard and 1 x mouse)			
Internal Connectors	USB	6			
	Serial	4 for G2 version (3 x RS-232, 1 x RS-232/422/485 with auto-flow control)			
	IDE	-			
	SATA	4			
	Parallel	1			
	IrDA	1			
	DIO	-			
Watchdog Timer	Output	System reset			
	Interval	Programmable 1 ~ 255 sec			
Power Requirement	Power On	Intel i7 2600 3.4 GHz processor, 4 GB UNB DDR3 Memory x2pcs			
		3.3 V	5 V	12 V	5 Vsb
		1.01 A	1.08 A	5.48 A	1.76 A
Environment		Operating		Non-Operating	
	Temperature	0 ~ 60° C (32 ~ 140° F) (Depends on CPU speed and cooler solution)		-40 ~ 85° C (-40 ~ 185° F)	
Physical Characteristics	Dimensions	304.8 x 244 mm (12" x 9.6")			

All product specifications are subject to change without notice

Board Diagram



Ordering Information

Part Number	Chipset	Memory	Display	USB 2.0	COM	GbE LAN	PCIe x1	PCIe x4	SW RAID
AIMB-701G2-00A1E	H61	Non-ECC	VGA + DVI	10	6	2	Yes	NA	NA
AIMB-701VG-00A1E	H61	Non-ECC	VGA	10	2	1	NA	Yes	NA

Riser Card

Part Number	Description
AIMB-R4104-01A1E	1U riser card with 1 PCIe x4 expansion
AIMB-R430P-03A2E	2U riser card with 3 PCI expansion

Packing List

Description	Quantity
SATA HDD cable	x 2
SATA power cable	x 2
I/O port bracket	x 1
Startup manual	x 1
Driver CD	x 1

Bracket View



AIMB-701G2-00A1E



AIMB-701VG-00A1E

Optional Accessories

Part Number	Description
1700002204	Dual port USB cable (27 cm) with bracket
1960047669N001	LGA1155/1156 CPU cooler for 4U and wallmount chassis
1960047831N001	LGA1155/1156 CPU cooler for 2U and wallmount chassis
1960052651N001	LGA1155/1156 CPU cooler for 2U and wallmount chassis
1700008809	Printer port cable kit (25 cm)
1700020294-01	Printer port cable kit (42 cm)
1701092300	COM port cable kit
1701260305	COM + Printer Port Cable Kit

Note: Purchasing AIMB-701'S proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with AIMB-701.