Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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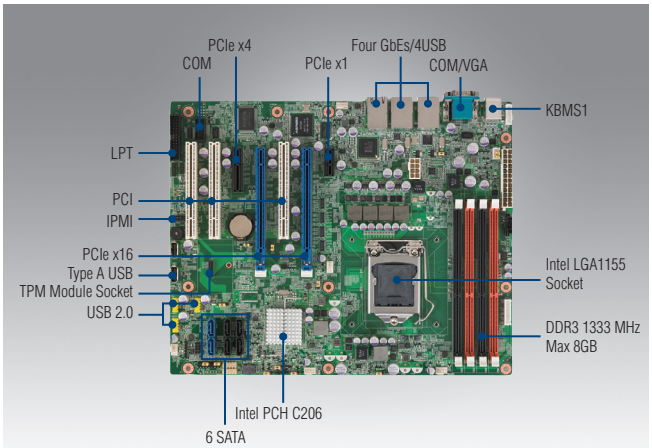
ASMB-781

LGA 1155 Intel® Xeon® E3/ 2nd Generation Core™ ATX Server Board with 1 PCIe x16 or 2 PCIe x8, Quad LANs



Features

- Supports LGA 1155 Intel® Xeon® E3 and 2nd Generation Core™ i3 / Pentium processors
- DDR3 1066/1333 MHz ECC UDIMM up to 32GB
- One Gen 2.0 PCIe x16 or two PCIe x8 slots
- Quad LANs with teaming function
- Rackmount optimized placement for thermal green design
- Supports IPMI, Embedded software APIs and utilities

Quiet

CE FCC

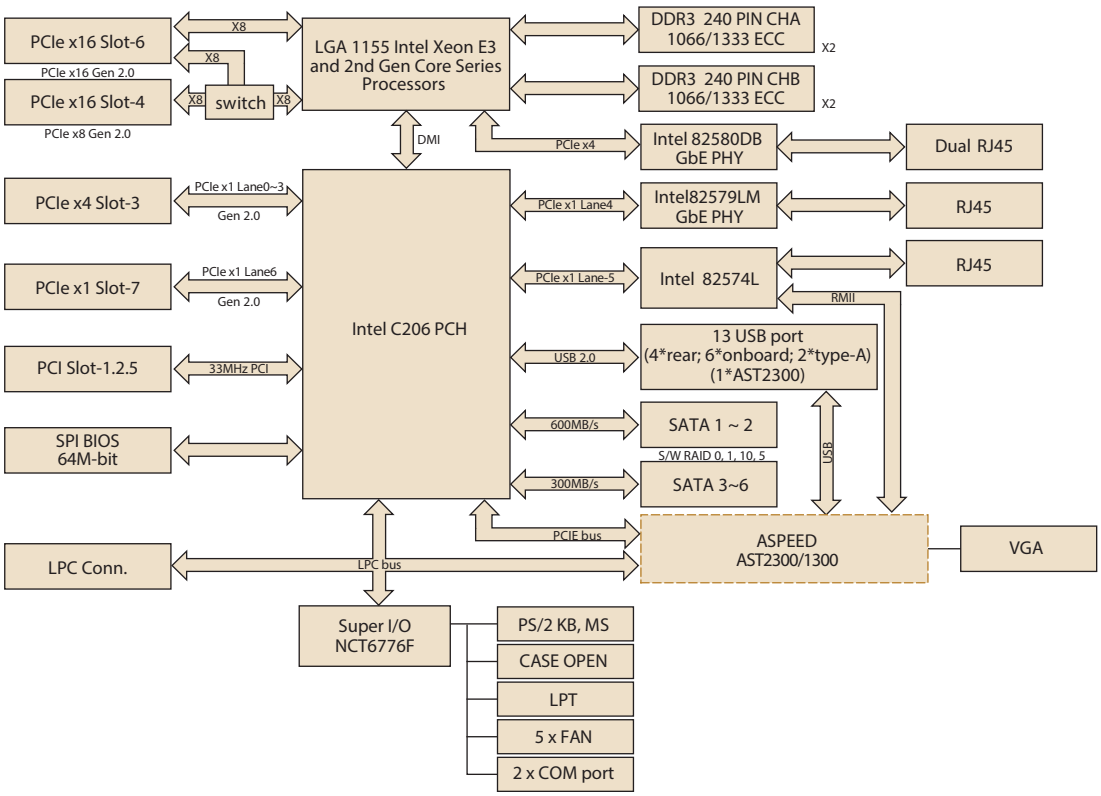
Specifications

Form Factor		ATX form factor					
Processor System	Socket	Intel LGA 1155					
	CPU type	Intel Xeon E3-1200/ 2nd Generation Core i3 and Pentium series					
Core Logic	Chipset	Intel C206 chipset					
Memory	Total slot	4 (Dual Channel)					
	Max. capacity	32 GB					
	Memory type	DDR3 ECC/Non-ECC 1600/1333 MHz UDIMM (240-pin)					
	Memory size	1 GB, 2 GB, 4 GB, 8 GB					
Expansion Slots	Total PCI/PCI-X/PCIe slots	7					
	Slot location 1	PCI					
	Slot location 2	PCI					
	Slot location 3	PCIe x4 (Gen2 x4 link)					
	Slot location 4	PCI x16 slot (Gen2 x8 or x16 link)					
	Slot location 5	PCI					
	Slot location 6	PCI x16 slot (Gen2 x8 or x16 link)					
	Slot location 7	PCI x1 slot (Gen2 x1 link)					
Graphics	Controller	AST2300/1300					
	VRAM	DDR3 512 Mbit (64 MB)					
Storage	SATA controller	Intel C206: 4 SATA2 3 Gb/s ports, 2 SATA3 6Gb/s Intel Matrix Storage (for Windows only) (Supports software RAID 0, 1, 10 & 5)					
	SAS controller	-					
Networking	Interface	10/100/1000 Mbps					
	Controller	GbE LAN1: Intel 82579LM; GbE LAN2: Intel 82574L; GbE LAN3/4: Intel 82580DB (Optional)					
	Connector	RJ-45 x 4 for G4 version					
Onboard I/O Connectors	Parallel connector	1					
	PSU connector	24-pin SSI power connector + 8-pin SSI 12V power connector					
	USB connector	3 (supports 6 USB port), 2* Type-A					
	Fan header	5 (4-pin)					
	SMBus	1					
	Chassis intruder	1					
	Front LAN LED	2					
	Serial port header	1 (RS-232)					
	Audio Connector	1 (Realtek ALC 892 optional)					
Rear I/O Connectors	External serial port	1 (RS-232), COM1 don't support wake on modem					
	External USB port	4					
	VGA port	1					
	RJ-45	2 for G2 version, 4 for G4 version					
	PS/2 KB/mouse	2					
Watchdog Timer	Output	System reset					
	Interval	Programmable 1 ~ 255 sec					
Power Requirement	Power On	3.3 V	5 V	12 V	12V_8P	5 Vsb	-V12
		2.74 A	1.12 A	0.08 A	4.86 A	1.81 A	0.01 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)		
	Humidity	0% ~ 90%			5% ~ 95% (Non-condensing)		
Physical Characteristics	Dimensions	304.8 x 244 mm (12" x 9.6")					

All product specifications are subject to change without notice

Last updated : 8-Aug-2016

Block Diagram



Ordering Information

Part Number	Chipset	Memory	LAN	IPMI	Graphic
ASMB-781G2-00A1E	C206	DDR3 ECC UNB/Non-ECC UNB	2	-	AST1300
ASMB-781G4-00A1E	C206	DDR3 ECC UNB/Non-ECC UNB	4	Yes	AST2300

Packing List

Part Number	Description	Quantity
2066078100	Driver CD	x 1
2006078110	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1960052312T000	I/O shield	x 1

I/O View

ASMB-781G4-00A1E

ASMB-781G2-00A1E

Optional Accessories

Part Number	Description
1700002204	Dual port USB cable (27 cm) with bracket
1700008461	Four port USB cable (30.5 cm) with bracket
1960052651N021	LGA 1151/1150/1155 CPU cooler for 2U/4U and rackmount chassis (TDP up to 95W)
1960049408N001	LGA 1151/1150/1155 1U CPU Cooler (TDP up to 95W)
19Z0000406T000	1U I/O shield
1700008809	Printer port cable kit (25 cm)
1700020294-01	Printer port cable kit (42 cm)
1701090401	COM port cable with bracket (40 cm)
PCA-AUDIO-HDA1E	HD Audio-card
968EMLSAP2	SUSIAccess Pro 3.0
PCA-TPM-00A1E	TPM Module with Infineon TPM 1.2 solution

Note 1: Please order 1 piece of each 1960049408N001 and 19Z0000406T000 for configuring ASMB-781 with 1U chassis.

Note 2: Purchasing ASMB-781's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with ASMB-781.