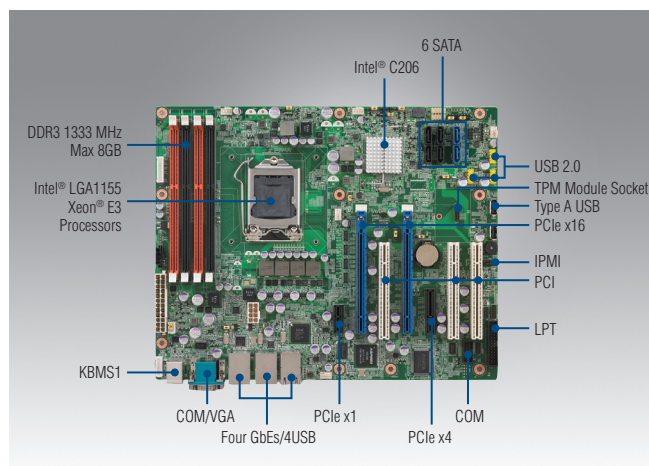


ASMB-781

LGA 1155 Intel® Xeon® E3 ATX Server Board with 1 PCIe x16 or 2 PCIe x8, Quad LANs



Specifications

Form Factor	ATX form factor					
Processor System	CPU	Xeon E3-1275	Xeon E3-1225	Core i3-2120	Pentium G850	Celeron G540
	Cores/Thread	4/8	4/4	2/4	2/2	2/2
	Speed	3.4	3.1	3.3	2.9	2.5
	L3 Cache	8 MB	6 MB	3 MB	3 MB	2 MB
	Socket	LGA 1155				
	Chipset	Intel C206 chipset				
Memory	BIOS	AMI 64 Mbit SPI (UEFI)				
	Technology	Dual Channel DDR3 ECC/Non-ECC 1066/1333/1600 MHz				
	Max. Capacity	32 GB				
	Socket	4 x 240-pin DIMM				
Expansion Slots	Memory size	1 GB, 2 GB, 4 GB, 8 GB				
	PCI 32-bit/33 MHz	3 slots				
	PCIe x 1 500 MB/s per direction	1 slot				
	PCIe x 4 2.0 GB/s per direction	1 slot				
Graphics	PCIe x16 8 GB/s per direction	2 slot(Auto switch to x8 link if slot 4 is occupied)				
	Controller	AST2300/1300				
Storage	VRAM	DDR3 512 Mbit (64 MB)				
	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)				
Ethernet	SAS controller	-				
	Interface	10/100/1000 Mbps				
	Controller	GbE LAN1: Intel 82579LM; GbE LAN2: Intel 82574L; GbE LAN3/4: Intel 82580DB (Optional)				
Internal Connectors	Connector	RJ-45 x 4 for G4 version				
	Parallel connector	1				
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V power connector				
	USB connector	3 (supports 6 USB port), 2* Type-A				
	Fan header	5 x 4pin				
	SMBus	1				
	Chassis intruder	1				
	Front LAN LED	2				
Rear I/O Connectors	Serial port header	1 (RS-232)				
	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				
Watchdog Timer	PS/2 KB/mouse	2				
	Output	System reset				
Power Requirement	Interval	Programmable 1 ~ 255 sec				
	Power On	3.3 V	5 V	12 V	12V_8P	5 Vsb -V12
Environment		2.74 A	1.12 A	0.08 A	4.86 A	1.81 A 0.01 A
	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	Humidity	0% ~ 90%				5% ~ 95% (Non-condensing)
	Dimensions	304.8 x 244 mm (12" x 9.6")				

Features

- ATX server board with 2nd Core i processor, quad LANs and high thermal performance
- LGA 1155 Intel® Xeon® E3 and 2nd 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

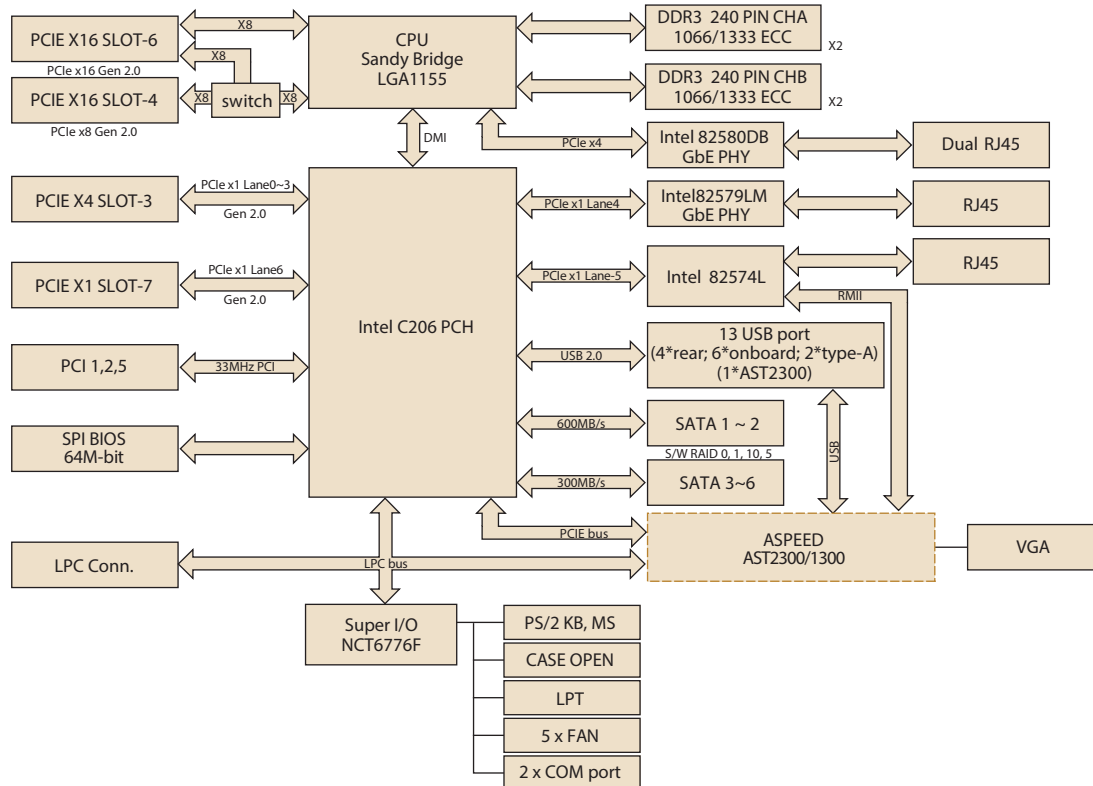
Software APIs:



Utilities:



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
1703150102	SATA power cables	x 2
1960052312T000	I/O shield	x 1

Bracket 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
1960047669N001	LGA 1155/1156 CPU cooler for 4U and wallmount chassis
1960052651N001	LGA 1155/1156 CPU cooler for 2U and rackmount chassis
1960047831N001	LGA 1155/1156 CPU cooler for 2U and rackmount chassis
1960049408N001	LGA 1155/1156 1U CPU Cooler and supports up to 73W processor
1700008809	Printer port cable kit
1701090401	COM port cable with bracket
PCA-AUDIO-HDA1E	HD Audio-card
19Z0000406T000	I/O shield for ACP-1320 chassis
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 ACP-1320 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.



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