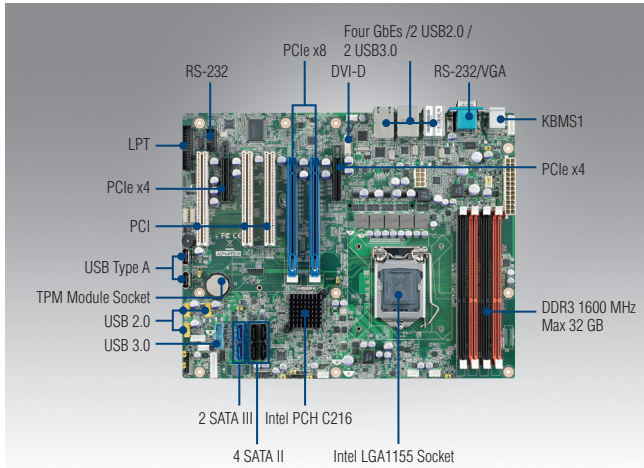


ASMB-782

LGA 1155 Intel® Xeon® E3/ E3 v2/ 2nd and 3rd Generation Core™ ATX Server Board with 2 PCIe x16 Slots (x8 link), 2 PCIe x4, USB 3.0, Quad LANs



Features

- LGA 1155 Intel® Xeon® E3 / E3 v2 / 2nd and 3rd generation Core™ i3 / Pentium processors
- DDR3 1600 MHz ECC UDIMM up to 32GB
- Two PCIe x16 slots (x8 link) and two PCIe x4 slots
- Quad LANs with teaming function
- Four USB 3.0 ports

Software APIs:



Utilities:



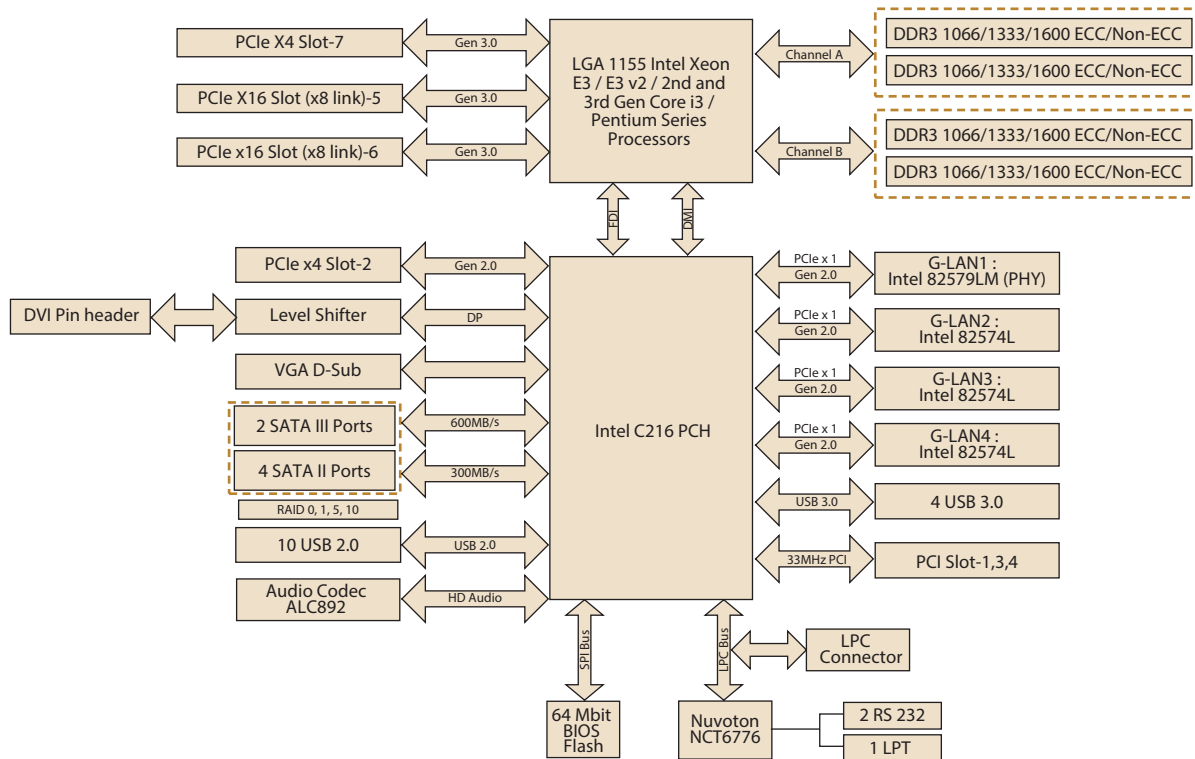
Specifications

Form Factor	ATX form factor							
Processor System	Socket	Intel LGA 1155						
	CPU type	Intel Xeon E3-1200/E3-1200 v2/ 2nd and 3rd Generation Core i3/i5/i7 / Pentium and Celeron series						
Core Logic	Chipset	Intel C216 chipset						
	Total slots	4 (Dual Channel)						
Memory	Max. capacity	32 GB						
	Memory type	DDR3 ECC/Non-ECC 1066/1333/1600 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	PCIe x4 (Gen2 x4 link)						
	Slot location 3	PCI						
	Slot location 4	PCI						
	Slot location 5	PCIe x16 slot (Gen3 x8 link)						
	Slot location 6	PCIe x16 slot (Gen3 x8 link)						
Graphics	Slot location 7	PCI x4 slot (Gen3 x4 link)						
	Controller	Intel HD Graphics 2500/P3000/P4000**						
Storage	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed						
	SATA controller	Intel C216: 4 SATA2 3 Gb/s ports, 2 SATA3 6Gb/s Intel Matrix Storage (for Windows only) (Supports software RAID 0, 1, 10 & 5)						
Networking	SAS controller	-						
	Interface	10/100/1000 Mbps						
	Controller	GbE LAN1: Intel 82579LM; GbE LAN2/3/4: Intel 82574L						
	Connector	RJ-45 x 4 for G4 version						
Onboard I/O Connector	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V power connector						
	USB connector	2 USB 3.0; 8 USB 2.0(2 x USB Type-A)						
	Fan header	5 (4-pin)						
	SMBus	2						
	Chassis intruder	1						
	Front LAN LED	2						
	Serial port header	1 (RS-232)						
	Audio Connector	1 (Realtek ALC 892 optional)						
	DVI Connector	1 for optional DVI-D output						
Rear I/O Connector	External serial port	1 (RS-232)						
	External USB port	4 (2 USB 3.0 and 2 USB 2.0)						
	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	3.3V	5V	12V	12V_8P	5 Vsb	-V12	
		4.69A	1.39A	0.4A	3.01A	1.95A	0.01A	
Environment	Operating					Non-operating		
		0 ~ 60° C (32 ~ 140° F) Depends on CPU speed and cooler solution					-40 ~ 85° C (-40 ~ 185° F)	
		Humidity					0% ~ 90%	
Physical Characteristics	Dimensions	304.8 x 244 mm (12" x 9.6")						

* ECC memory support or not depends on Intel processor specification. DDR3 1600 is only supported by Xeon E3 v2, Core i3 3xxx and Pentium G2xxx series processors.

** Some Xeon processors have no graphic support. Please check Intel specification for processor graphics availability.

Block Diagram



Ordering Information

Part Number	Chipset	Memory	LAN	USB 3.0
ASMB-782G2-00A1E	C216	DDR3 ECC UNB/Non-ECC	2	4
ASMB-782G4-00A1E	C216	DDR3 ECC UNB/Non-ECC	4	4

Packing List

Part Number	Description	Quantity
2066S78200	Driver CD	x 1
2006S78210	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1960052312T010	I/O shield	x 1

Optional Accessories

Part Number	Description
1700002204	Dual port USB 2.0 cable (27 cm) with bracket
1700008461	Four port USB 2.0 cable (30.5 cm) with bracket
1960052651N021	LGA 1151/1150/1155 CPU cooler for 2U/4U and wallmount chassis (TDP up to 95W)
1960049408N001	LGA 1151/1150/1155 1U CPU Cooler (TDP up to 95W)
1920000406T110	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)
1700008822	DVI cable with bracket
1700020277-01	Dual port USB 3.0 cable with bracket (30 cm)
AIMB-AUDIO-HDA1E	HD Audio-Card
PCA-TPM-00A1E	TPM Module with Infineon TPM 1.2 solution

I/O View



ASMB-782G4-00A1E



ASMB-782G2-00A1E

Note: Purchasing ASMB-782's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with ASMB-782.