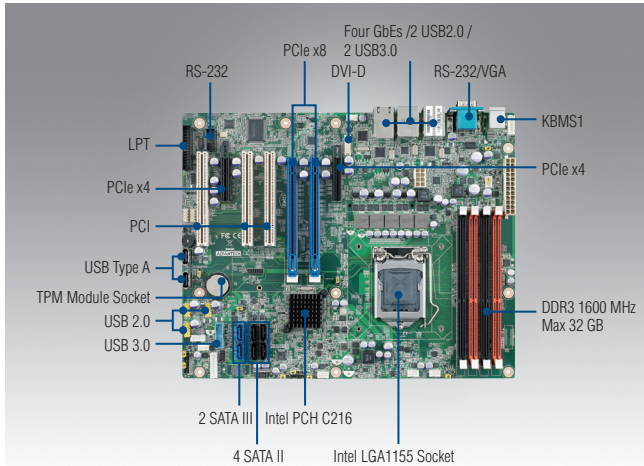


# ASMB-782

**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:

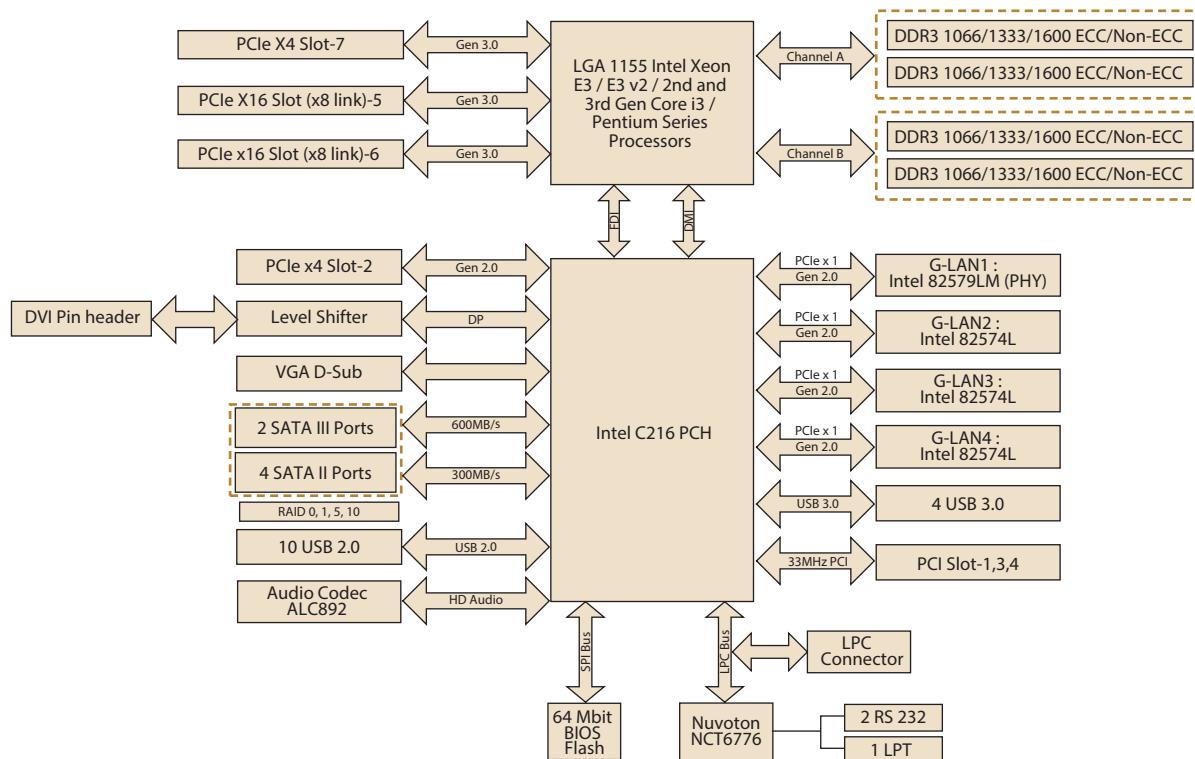


## Specifications

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				
Memory	Total slots	4 (Dual Channel)				
	Max. capacity	32 GB				
	Memory type	DDR3 ECC/Non-ECC 1600/1333/1600 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				
Onboard I/O Connectors	Controller	GbE LAN1: Intel 82579LM; GbE LAN2/3/4: Intel 82574L				
	Connector	RJ-45 x 4 for G4 version				
	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)				
Rear I/O Connectors	DVI Connector	1 for optional DVI-D output				
	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				
Watchdog Timer	PS/2 KB/mouse	2				
	Output	System reset				
Power Requirement	Interval	Programmable 1 ~ 255 sec				
	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				
	Temperature	0 ~ 60° C (32 ~ 140° F) Depends on CPU speed and cooler solution				
	Humidity	-40 ~ 85° C (-40 ~ 185° F)				
Physical Characteristics	Dimensions	0% ~ 90% 5% ~ 95% (Non-condensing) 304.8 x 244 mm (12" x 9.6")				

\*DDR3 1600 is only supported by Xeon E3 v2, Core i3 3xxx and Pentium G2xxx series processors.

## 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
2066S78210	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1960052312T000	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)
1920000406T000	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
968EMLSAP2	SUSIAccess Pro 3.0
PCA-TPM-00A1E	TPM Module with Infineon TPM 1.2 solution

## I/O View



ASMB-782G4-00A1E



ASMB-782G2-00A1E

Note 1: Please order 1 piece of each 1960049408N001 and 1920000406T000 for configuring ASMB-782 with 1U chassis.

Note 2: Purchasing ASMB-782's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with ASMB-782.