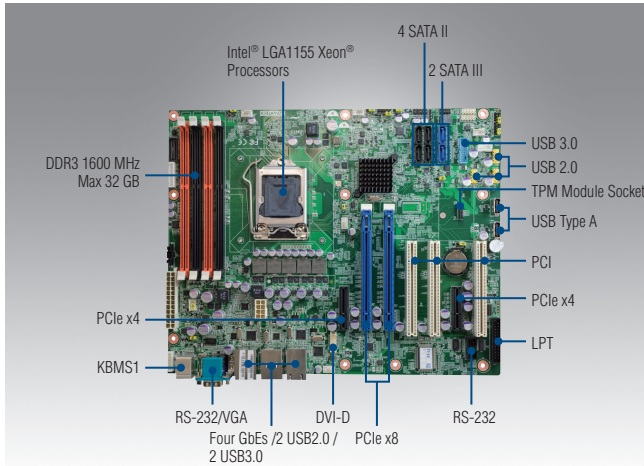


# ASMB-782

## LGA 1155 Intel® Xeon® E3 V2 ATX Server Board with 2 PCIe x16 slots (x8 link), 2 PCIe x4, USB 3.0, PCIe Gen III, Quad LANs



### Features

- ATX server board with Intel® 3rd gen core i processor, quad LANs
- LGA 1155 Intel® Xeon® E3 / E3 v2 / 2nd and 3rd 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:



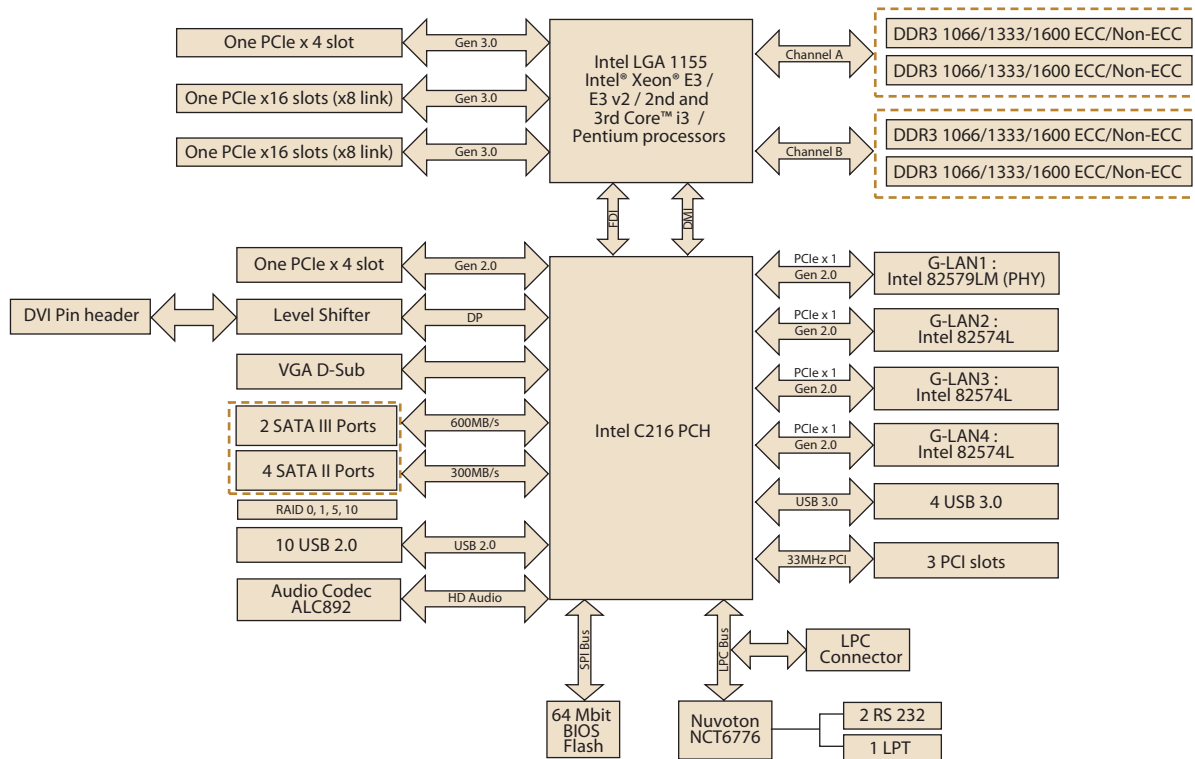
#### Utilities:



## Specifications

Form Factor	ATX form factor							
Processor System	CPU	Xeon E3-12xxV2	Core i3-3220	Pentium G2120	Xeon E3-12xx	Core i3-2120	Pentium G850	Celeron G540
	Cores	4	2	2	4	2	2	2
	Speed	3.5	3.3	3.1	3.4	3.3	2.9	2.5
	L3 Cache	8 MB	3 MB	3 MB	8 MB	3 MB	3 MB	2 MB
	Socket	LGA 1155						
	Chipset	Intel C216 chipset						
BIOS	AMI 64 Mbit SPI (UEFI)							
Memory	Technology	Dual Channel DDR3 ECC/Non-ECC 1066/1333/1600 MHz (1600 only supported by Xeon E3 V2, Core i3 3xxx and Pentium G2xxx series processors)						
	Max. Capacity	32 GB						
	Socket	4 x 240-pin DIMM						
	Memory size	1 GB, 2 GB, 4 GB, 8 GB						
Expansion Slots	PCI 32-bit/33 MHz	3 slots						
	PCIe x 4 (Gen2) 2.0 GB/s per direction	1 slots						
	PCIe x 4 (Gen2) 2.0 GB/s per direction	1 slots						
	PCIe x8 (Gen3) 8 GB/s per direction	2 slots (x16 slots with x8 link)						
Graphics	Controller	Intel HD Graphics 2500/P3000/P4000						
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed						
Storage	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)						
	SAS controller	-						
Ethernet	Interface	10/100/1000 Mbps						
	Controller	GbE LAN1: Intel 82579LM; GbE LAN2/3/4: Intel 82574L						
	Connector	RJ-45 x 4 for G4 version						
Internal Connectors	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 x 4pin						
	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 Connectors	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	Temperature	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%			5% ~ 95% (Non-condensing)			
Physical Characteristics	Dimensions	304.8 x 244 mm (12" x 9.6")						

## 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
1960052312T000	I/O shield	x 1

## Bracket View



ASMB-782G4-00A1E



ASMB-782G2-00A1E

## 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
1960047669N001	LGA 1155/1156 CPU cooler for 4U and wallmount chassis
1960052651N001	LGA 1155/1156 CPU cooler for 2U and wallmount chassis
1700008809	Printer port cable kit
1701090401	COM port cable with bracket
1700008822	DVI cable with bracket
1700020277-01	Dual port USB 3.0 cable with bracket
AIMB-AUDIO-HDA1E	HD Audio-Card
1960049408N001	LGA 1155/1156 1U CPU Cooler and supports up to 73W processor
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-782 with ACP-1320 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.