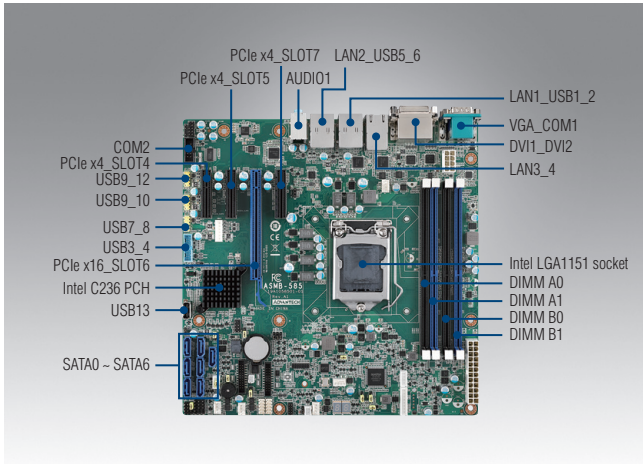


# ASMB-585

## LGA 1151 Intel® Xeon® E3 v5/v6 & 6th/7th Generation Core™ Series Micro ATX Server Board with 4 DDR4, 1 PCIe x16, 3 PCIe x4, Quad LANs, USB 3.0



### Features

- Supports LGA 1151 Intel® Xeon® E3-1200 v5/v6 and 6th/7th generation Core™ i7/i5/i3 processors
- DDR4 ECC/non-ECC 2400/2133/1866/1600 MHz DIMM up to 64GB
- One PCIe x16 slot (Gen3 x16 link), three PCIe x4 slots (2 Gen3 x4 link, 1 Gen3 x1 link)
- Triple display - two DVI-D and one VGA ports
- Supports up to ten RS-232 or six RS-232 and four RS-422/485 ports
- Rackmount optimized placement with positive air flow design
- 0 ~ 60 °C ambient operation temperature range

Note: Intel Xeon E3 v6 & 7th Core processors only support Windows 10 (64-bit) and Server 2016 (64-bit).



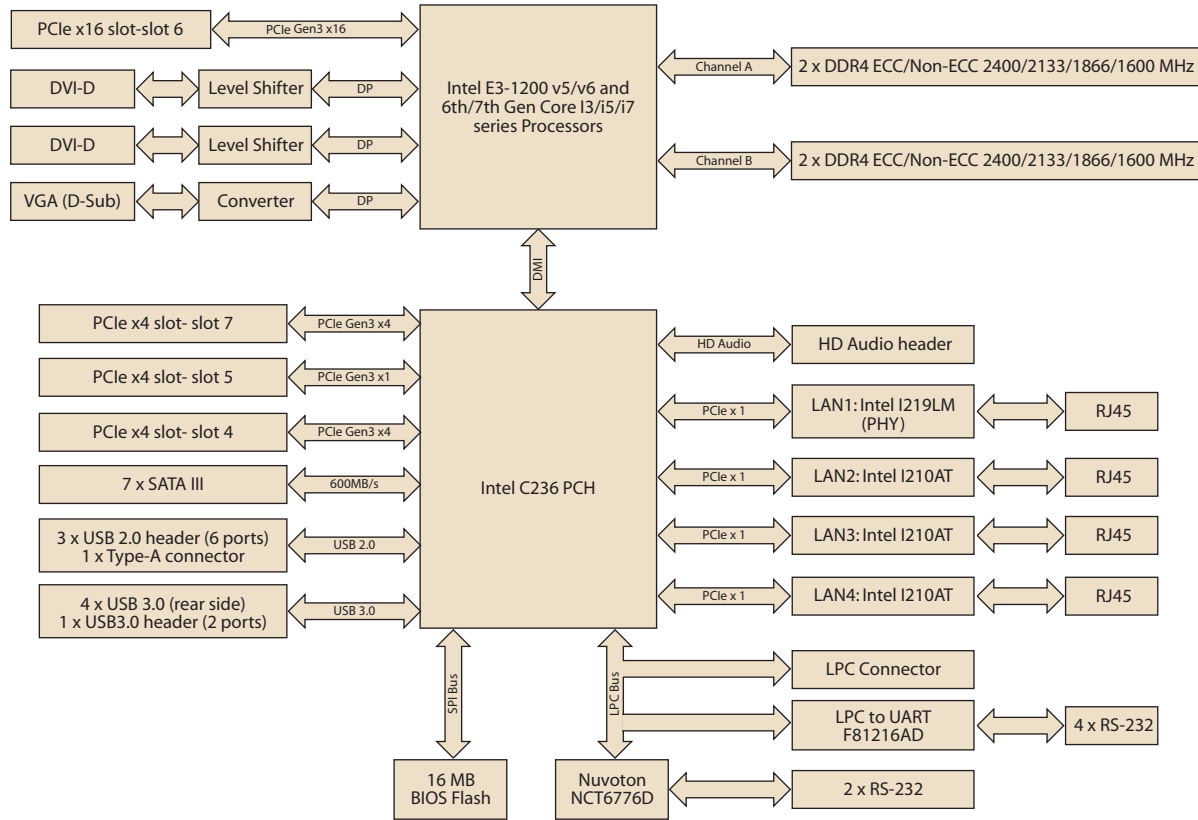
### Specifications

Form Factor		Micro ATX form factor	
Processor System	Socket	Intel LGA 1151	
	CPU type	Intel® Xeon® E3-1200 v5/v6 and 6th/7th Gen Core™ i3/i5/i7 series processors (TDP up to 91W)	
Core Logic	Chipset	Intel C236 chipset	
Memory	Total slots	4	
	Capacity	Maximum 64 GB	
	Memory type	DDR4 ECC/Non-ECC 2400/2133/1866/1600 MHz UDIMM*	
	Memory size	4 GB, 8 GB, 16 GB	
Expansion Slots	Total PCI/PCI-X/PCIe slots	4	
	Slot location 1	-	
	Slot location 2	-	
	Slot location 3	-	
	Slot location 4	PCIe x4 slot (Gen3 x4 link)	
	Slot location 5	PCIe x4 slot (Gen3 x1 link)	
	Slot location 6	PCIe x16 slot (Gen3 x16 link)	
Graphics	VGA	Intel HD Graphics**	
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed	
Storage	SATA controller	Intel C236: 7 SATA3 6Gb/s Intel Rapid Storage Technology (for Windows only) (Supports software RAID 0, 1, 10 & 5)	
	SAS controller	-	
Networking	GbE LAN	1 x Intel I219LM + 3 x Intel I210AT	
Onboard I/O Connector	LPT connector	-	
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V power connector	
	USB 2.0 connector	3 (supports 6 x USB2.0 port), 1 x Type-A	
	USB 3.0 connector	1 (support 2 x USB 3.0 port)	
	Fan header	5 x 4pin	
	SMBus	1	
	Chassis intruder	1	
	Front LAN LED	2	
	Audio Header	1 (ALC 892)	
	Serial port header	3 (supports 5 x serial ports)	
	Rear I/O Connector	External serial port	1
External USB port		4 x USB 3.0	
VGA port		1	
DVI port		2	
RJ-45		4	
PS/2 KB/mouse		-	
Audio		2 (Mic-in , Line-out)	
Watchdog Timer	Output	System reset	
	Interval	Programmable 1 ~ 255 sec/min	
Power Requirement	Power On	3.3 V      5 V      12 V      5 Vsb      -12 V	
		0.68A      1.31A      1.04A      0.13A      0.06A	
Environment	Temperature	Operating	Non-operating
		0 ~ 60 °C, depends on CPU speed and cooler solution	-40 ~ 85 °C
		Humidity	5% ~ 95% (Non condensing)
Physical Characteristics	Dimension (L x H)	244 x 244 mm (9.6" x 9.6")	

\* ECC memory support or not depends on Intel processor specification.

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

## Block Diagram



## Ordering Information

Part Number	Chipset	Memory	LAN	IPMI	Graphics
ASMB-585G2-00A1E	C236	DDR4 ECC/Non-ECC	2	-	Intel HD Graphics
ASMB-585G4-00A1E	C236	DDR4 ECC/Non-ECC	4	-	Intel HD Graphics

## Packing List

Part Number	Description	Quantity
2061058502	Driver CD	x 1
2001058502	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
19Z0000996T010	I/O shield	x 1

## Optional Accessories

Part Number	Description
1960049408N001	LGA 1151 CPU heatsink for 1U chassis
1960052651N021	LGA 1151 CPU cooler for 2U/4U chassis
19Z0001156T010	1U IO bracket for ASMB-585
1700002204	Dual port USB2.0 cable (27 cm) with bracket
1700008461	Four port USB2.0 cable (30.5 cm) with bracket
1700028292-01	Dual port USB3.0 cable (30 cm) with bracket
1701090401	Single port RS-232 cable (40cm) for COM2 connector
1700026254-01	Dual port RS-232 cable (45cm) for COM3_4 & COM5_6 connectors
1700019268-11	Cable for onboard KBMS1 connector (35cm)
1960063434N000	Cable bracket for 1700019268-11
PCA-TPM-00B1E	TPM 2.0 Module by LPC
PCA-COM232-00A1E	4 ports RS-232 module connect to LPC connectors
PCA-COM485-00A1E	4 ports RS-422/485 module connect to LPC connectors

## I/O View



ASMB-585G2-00A1E



ASMB-585G4-00A1E

Note 1: Purchasing ASMB-585's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers may NOT compatible with ASMB-585.