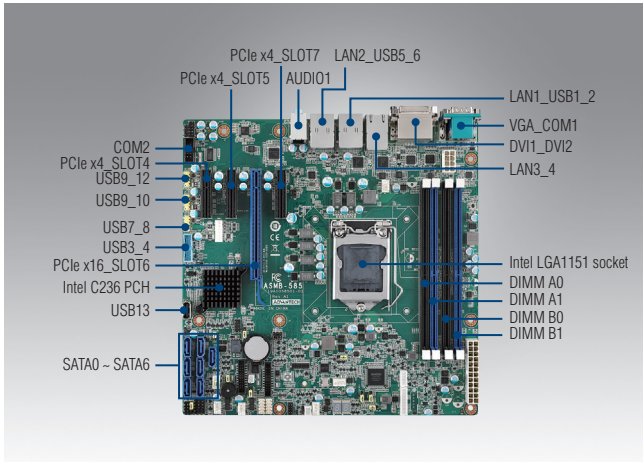


# ASMB-585

**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)
- 0 ~ 60 °C ambient operation temperature range
- Support up to ten RS-232 or six RS-232 and four RS-422/485 ports
- Support up to four Gigabit LAN ports
- Triple display - two DVI-D and one VGA ports
- Support seven SATA3 ports and six USB 3.0 ports

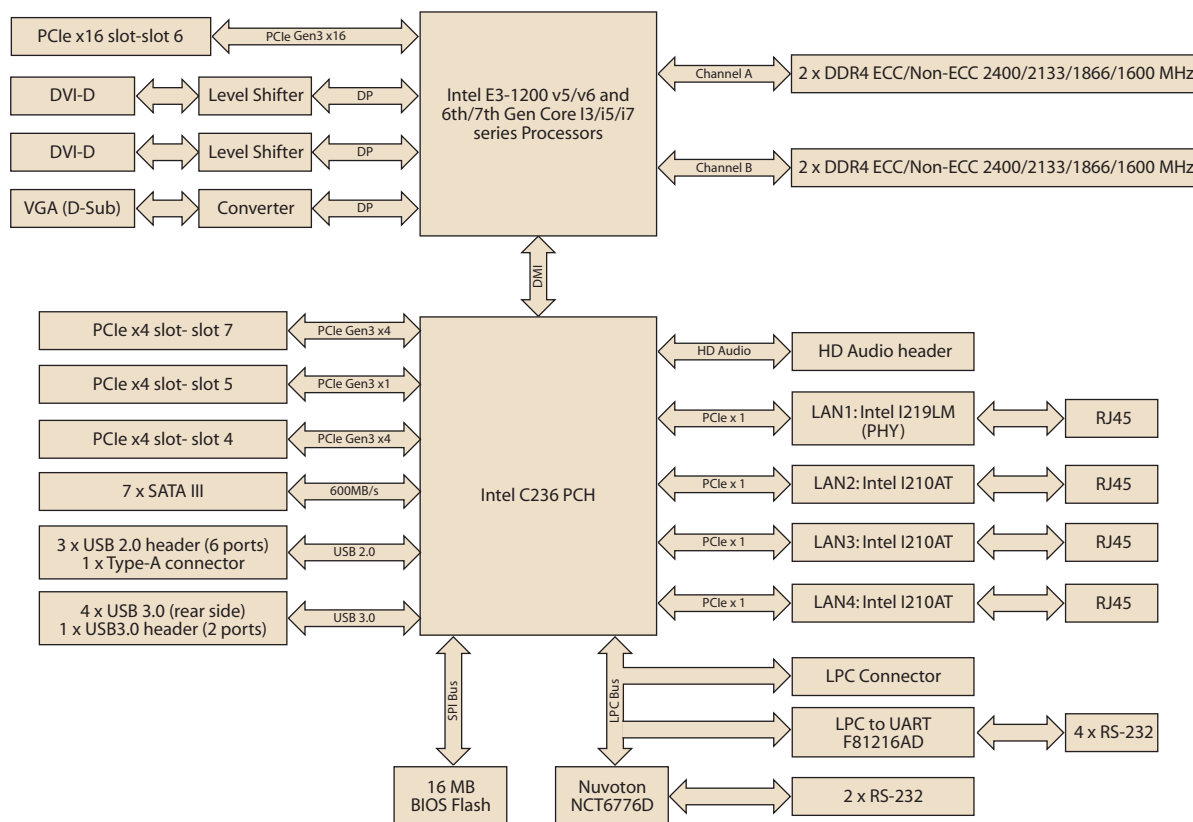
Quiet

CE FCC

## 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 Connectors	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 Connectors	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		Operating      Non-operating
	Temperature	0 ~ 60 °C, depends on CPU speed and cooler solution      -40 ~ 85 °C
	Humidity	0% ~ 90%      5% ~ 95% (Non condensing)
Physical Characteristics	Dimension (L x H)	244 x 244 mm (9.6" x 9.6")

## Block Diagram



## Ordering Information

Part Number	Chipset	Memory	LAN	IPMI	Graphic
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 (TDP up to 95W)
1960052651N021	LGA 1151 CPU cooler for 2U/4U chassis (TDP up to 95W)
PCA-TPM-00B1E	TPM 2.0 Module by LPC
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
1700020277-01	Dual port USB3.0 cable (30 cm) with bracket
PCA-COM232-00A1E	4 ports RS-232 module connect to LPC connector
PCA-COM485-00A1E	4 ports RS-422/485 module connect to LPC connector
1701090401	Single port RS-232 cable(40cm) for COM2 connector
1700026254-01	Dual port RS-232 cable(45cm) for COM3_4 & COM5_6 connector
968EMLSAP2	SUSIAccess Pro 3.0
1700019268-11	Cable for onboard KBMS1 connector (35cm)
1960063434N000	Cable bracket for 1700019268-11

## 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 be compatible with ASMB-585.