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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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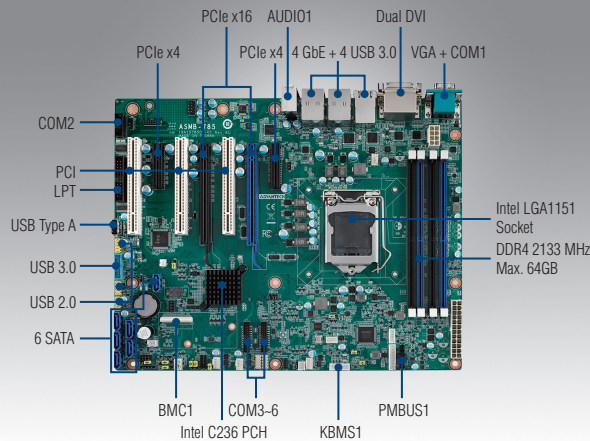
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ASMB-785

LGA 1151 Intel® Xeon® E3 v5/v6 & 6th/7th Generation Core™ ATX Server Board with 4 DDR4, 4 PCIe, 3 PCI, 6 USB 3.0, 6 COM, 6 SATA3, Quad/Dual LANs



Features

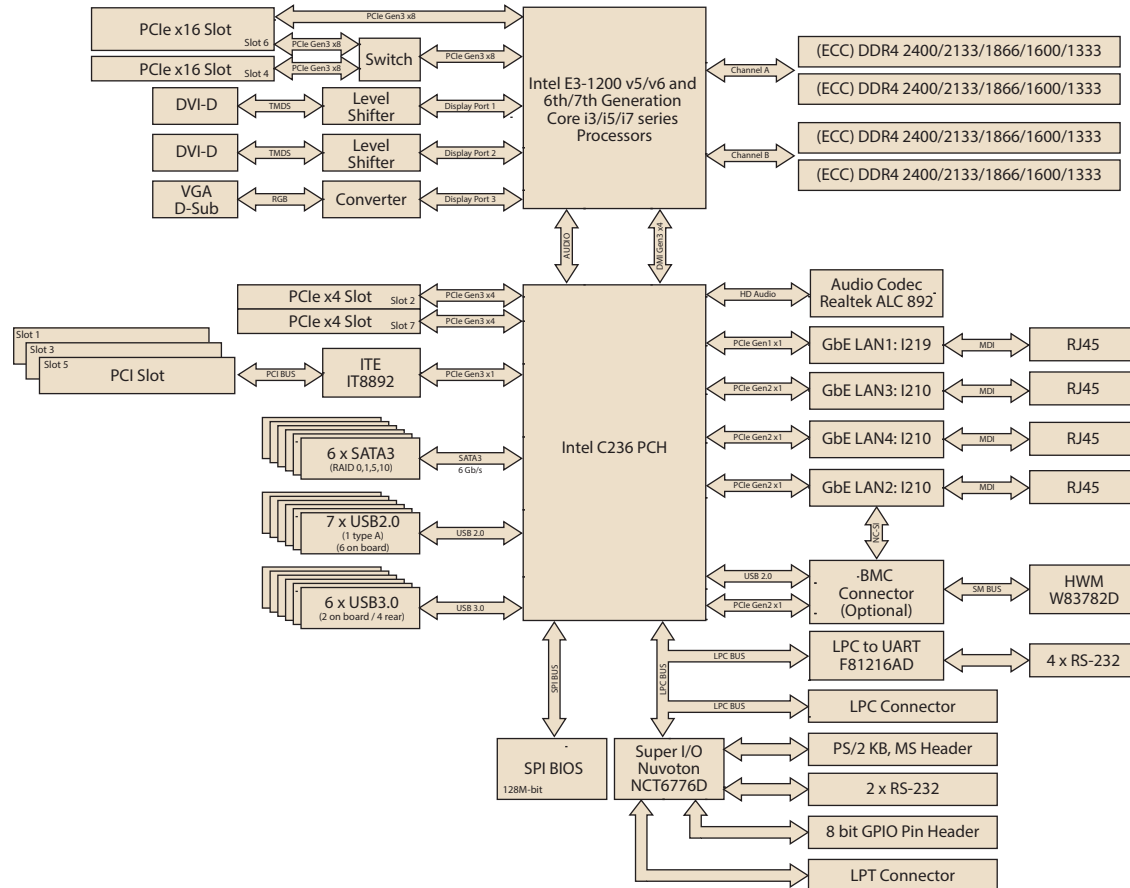
- Supports LGA 1151 Intel® Xeon® E3-1200 v5/v6 and 6th/7th Generation Core™ i7/i5/i3 processors
- DDR4 2400/2133/1866/1600/1333 MHz ECC/Non-ECC UDIMM up to 64 GB
- One Gen 3.0 PCIe x16 link (or two PCIe x16 slots with x8 link), two PCIe x4, and three PCI slots
- Rackmount optimized placement with positive air flow design
- 0 ~ 60 °C ambient operation temperature range



Specifications

Form Factor		ATX form factor	
Processor System	Socket	Intel LGA 1151	
	CPU type	Intel® Xeon® E3-1200 v5/v6 and 6th/7th Generation Core™ i3/i5/i7 series (TDP up to 91W)	
Core Logic	Chipset	Intel C236 chipset	
Memory	Total slots	4 (Dual Channel)	
	Max. capacity	64 GB	
	Memory type	DDR4 ECC/Non-ECC 2400/2133/1866/1600 MHz UDIMM (288-pin)	
	Memory size	4 GB, 8 GB, 16 GB	
Expansion Slots	Total PCI/PCI-X/PCIe slots	7	
	Slot location 1	PCI	
	Slot location 2	PCIe x4 slot (Gen3 x4 link)	
	Slot location 3	PCI	
	Slot location 4	PCIe x16 slot (Gen3 x8 link)	
	Slot location 5	PCI	
	Slot location 6	PCIe x16 slot (Gen3 x8 or x16 link)	
Graphics	Controller	Intel HD Graphics	
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed	
Storage	SATA controller	Intel C236: 6 SATA3 6 Gb/s ports with Intel Rapid Storage Technology support (for Windows only) (Supports software RAID 0, 1, 10 & 5)	
	SAS controller	-	
Networking	Interface	10/100/1000 Mbps	
	Controller	GbE LAN1: Intel I219; GbE LAN 2-4: Intel I210-AT	
	Connector	RJ-45 x 2 for G2 version; RJ-45 x 4 for G4 version	
Onboard I/O Connectors	Printer Port connector	1	
	PSU connector	24-pin SSI power connector + 8-pin SSI 12V power connector	
	USB connector	1 USB 3.0 (2 ports), 3 USB 2.0 (6 ports), 1 USB Type-A	
	Fan header	5 (4-pin)	
	SMBus	1	
	Chassis intruder	1	
	Front LAN LED	2	
	Serial port header	2 (support 4 RS-232 ports) + 1 (support 1 RS-232 port)	
	Audio connector	1 (ALC 892)	
	PS/2 KB/Mouse	1	
	Rear I/O Connectors	External serial port	1
External USB port		4 (USB 3.0)	
VGA port		1	
DVI		2	
Display port		-	
RJ-45		2 for G2 version; 4 for G4 version	
Audio connector		2 (Mic-in, Line-out)	
PS/2 KB/Mouse		-	
Watchdog Timer	Output	System reset	
	Interval	Programmable 1 ~ 255 sec	
Power Requirement	Power On	Intel® Xeon® E3-1275 v5 3.60GHz; DDR4 8G x 4	
		3.3 V 5 V 12 V 12V_8P 5 Vsb -12 V	
		0.96A 1.58A 0.32A 7.21A 0.11A 0.06A	
Environment	Temperature	Operating	Non-operating
		0 ~ 60 °C (32 ~ 140 °F)	-40 ~ 85 °C (-40 ~ 185 °F)
	Humidity	Depends on CPU speed and cooler solution	10 ~ 95% (Non-condensing)
Physical Characteristics	Dimension (L x H)	304.8 x 244 mm (12" x 9.6")	

Block Diagram



Ordering Information

Part Number	Chipset	Memory	LAN	USB 3.0	DVI	SATAIII	IPMI
ASMB-785G2-00A1E	C236	DDR4 Non-ECC/ECC UDIMM	2	6	2	6	Optional
ASMB-785G4-00A1E	C236	DDR4 Non-ECC/ECC UDIMM	4	6	2	6	Optional

Packing List

Part Number	Description	Quantity
2061S78502	Driver CD	x 1
2006S78510	Startup manual	x 1
1700003194	SATA data cables	x 1
1700019381	SATA data cable (right angle)	x 1
1700022749-11	SATA power cables	x 2
19Z0000996T010	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 CPU heatsink for 1U chassis (TDP up to 95W)
19Z0001156T010	1U I/O shield
1700008809	Printer port cable kit (25 cm)
1700020294-01	Printer port cable kit (42 cm)
1701090401	Single port RS-232 cable with bracket (40 cm)
1700008762	Dual port RS-232 cable with bracket (22.5 cm)
1700020277-01	Dual port USB 3.0 cable with bracket (30 cm)
1700019268-11	PS/2 cable (35 cm)
1960063434N000	Cable bracket for 1700019268-11
PCA-COM232-00A1E	4 ports RS-232 module to LPC connector
PCA-COM485-00A1E	4 ports RS-485 module to LPC connector
IPMI-1000-00A2E	IPMI 2.0 Module
968EMLSAP2	SUSIAccess Pro 3.0
PCA-TPM-00B1E	TPM 2.0 Module by LPC

I/O View



ASMB-785G2-00A1E



ASMB-785G4-00A1E

Note : Purchasing ASMB-785's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with ASMB-785.