



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

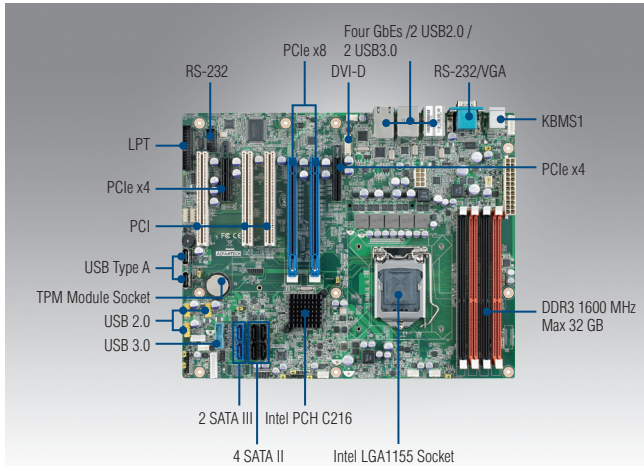
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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:

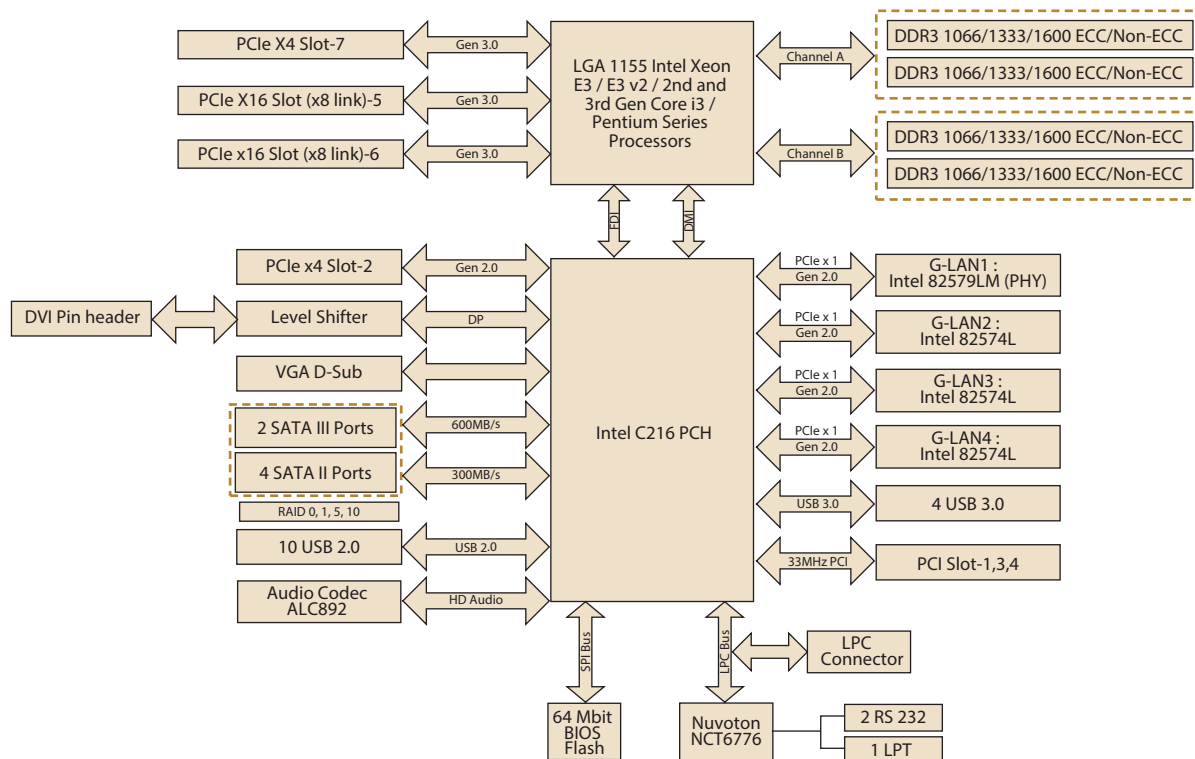


Specifications

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	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	-				
Networking	Interface	10/100/1000 Mbps				
	Controller	GbE LAN1: Intel 82579LM; GbE LAN2/3/4: Intel 82574L				
	Connector	RJ-45 x 4 for G4 version				
Onboard I/O 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 (4-pin)				
	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%	
Physical Characteristics	Dimensions	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.