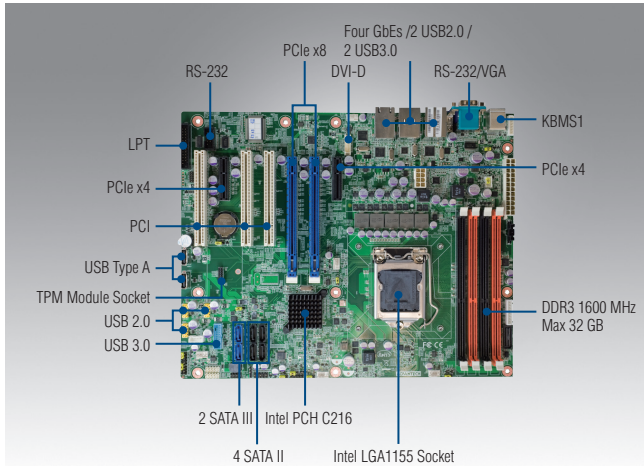


ASMB-782

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:

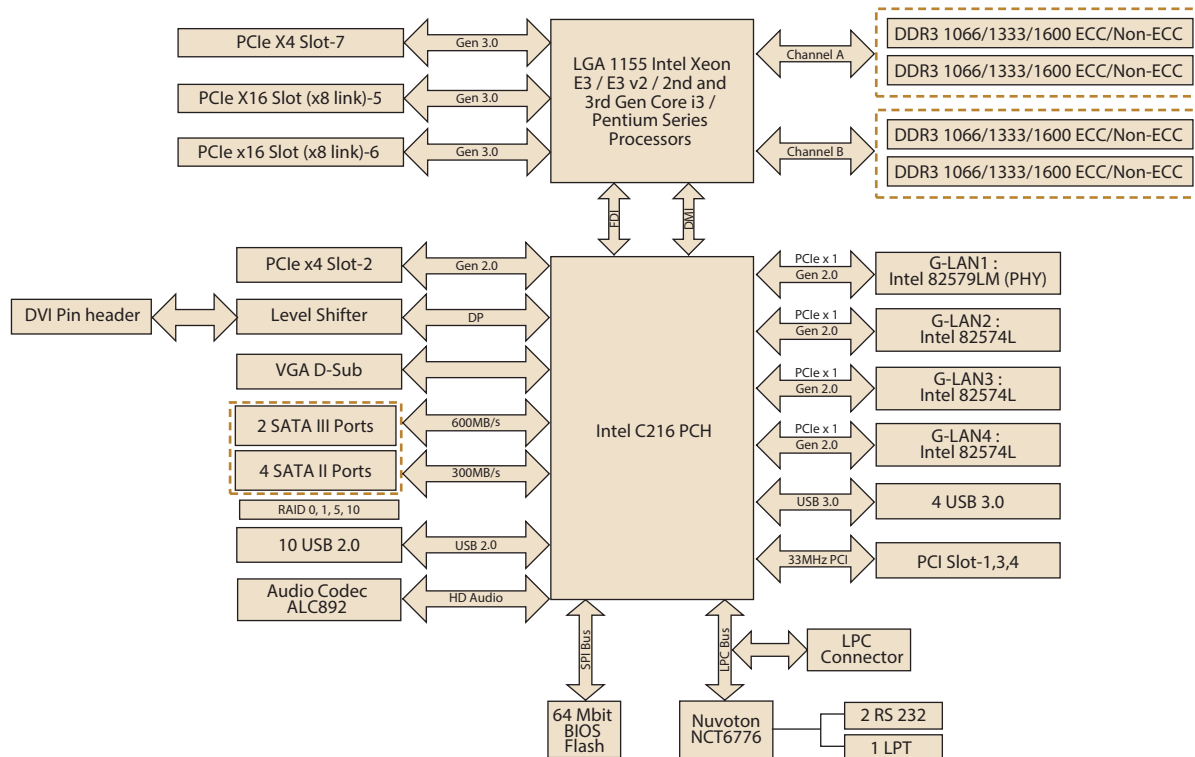


Specifications

| | | | | | | | |
|--------------------------|----------------------------|---|-------|------|--------|----------------------------|-------|
| 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) | | | | | |
| Rear I/O Connectors | DVI Connector | 1 for optional DVI-D output | | | | | |
| | 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 | | | | 5% ~ 95% (Non-condensing) | |
| 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 |
| 1960049408N001 | LGA 1151/1150/1155 1U CPU Cooler |
| 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 |
| 1920000406T000 | 1U I/O shield |
| 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.