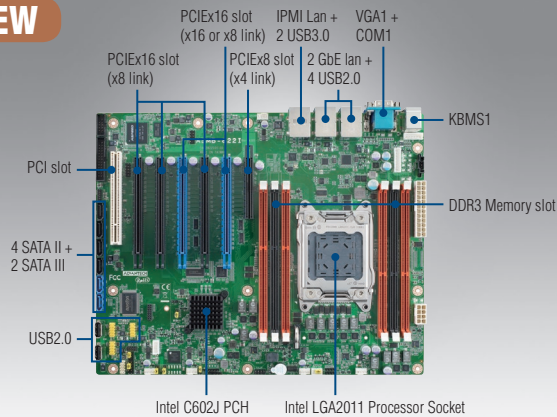


# ASMB-822

**Intel® LGA2011 Xeon® E5 ATX Server Board with 6 x DDR3, 5 x PCIe x16 slot (Gen 3.0), USB 3.0, IPMI**

**NEW**



## Features

- ATX Server Board with Intel Xeon® E5-1600/1600 v2/2600/2600 v2 series processor
- DDR3 1600\* MHz RDIMM up to 96 GB
- 5 x Gen 3.0 PCIe x16 slots
- 0 ~ 60° C ambient operation temperature range

### Software APIs:



### Utilities:

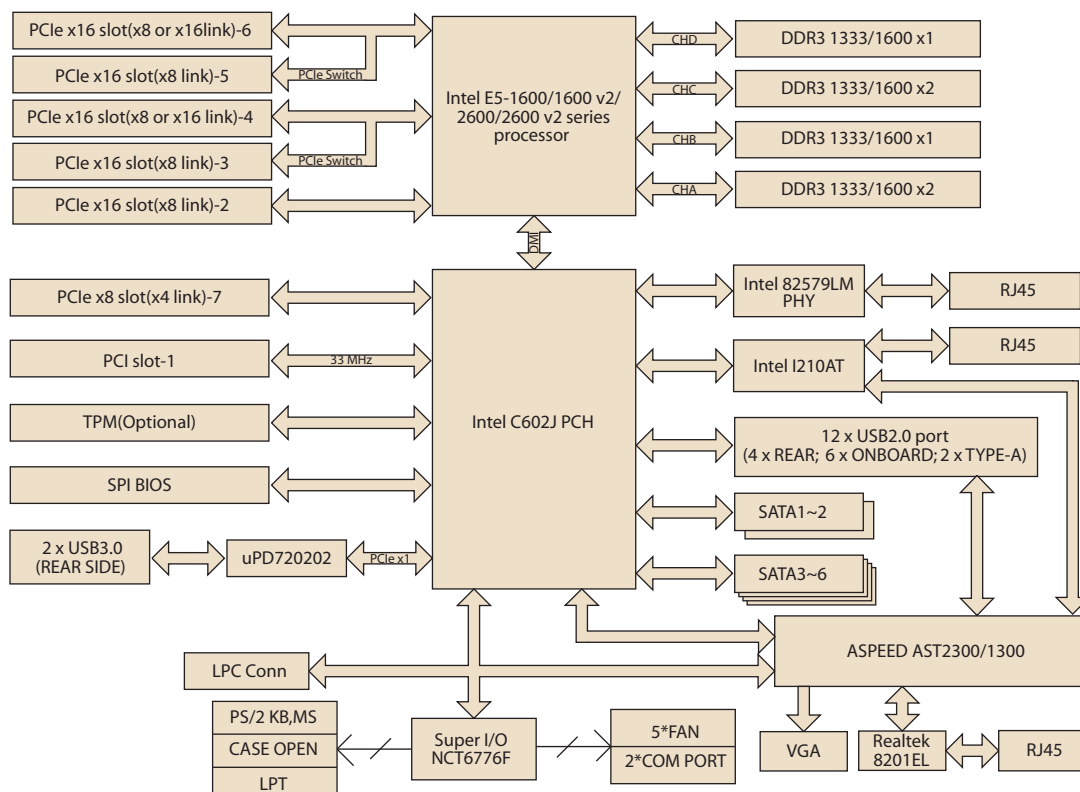


## Specifications

|                          |                               |  |        |         |               |                           |
|--------------------------|-------------------------------|--|--------|---------|---------------|---------------------------|
| Form Factor              |                               | ATX form factor  |        |         |               |                           |
| Processor System         | Socket                        | Intel LGA 2011   |        |         |               |                           |
|                          | CPU type                      | Intel Xeon E5-1600 / 1600 v2 series (TDP up to 130W)<br>Intel Xeon E5-2600 / 2600 v2 series (TDP up to 130W)                   |        |         |               |                           |
| Core Logic               | Chipset                       | Intel C602J chipset  |        |         |               |                           |
|                          |                               |  |        |         |               |                           |
| Memory                   | Total slots                   | 6  |        |         |               |                           |
|                          | Capacity                      | Maximum 96 GB ECC RDIMM  |        |         |               |                           |
|                          | Memory type                   | DDR3 ECC-REG/ECC/Non-ECC 1600*/1333/1066 MHz DIMM  |        |         |               |                           |
|                          | Memory size                   | 1 GB, 2 GB, 4 GB, 8 GB, 16 GB  |        |         |               |                           |
| Expansion Slots          | Total PCI/PCI-X/PCIe slots    | 7  |        |         |               |                           |
|                          | Slot location 1               | PCI  |        |         |               |                           |
|                          | Slot location 2               | PCIe x16 slot (Gen3 x8 link)   |        |         |               |                           |
|                          | Slot location 3               | PCIe x16 slot (Gen3 x8 link)   |        |         |               |                           |
|                          | Slot location 4               | PCIe x16 slot (Gen3 x8 or x16 link)  |        |         |               |                           |
|                          | Slot location 5               | PCIe x16 slot (Gen3 x8 link)   |        |         |               |                           |
|                          | Slot location 6               | PCIe x16 slot (Gen3 x8 or x16 link)  |        |         |               |                           |
| Graphics                 | VGA                           | Aspeed AST2300/1300 64 MB  |        |         |               |                           |
|                          |                               |  |        |         |               |                           |
| Storage                  | SATA controller               | Intel C602J: 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               | GbE LAN                       | 1 x Intel 82579LM + 1 x Intel I210   |        |         |               |                           |
|                          |                               |  |        |         |               |                           |
| Onboard I/O Connectors   | LPT connector                 | 1  |        |         |               |                           |
|                          | PSU connector                 | 24-pin SSI power connector + 8-pin SSI 12 V power connector  |        |         |               |                           |
|                          | USB connector                 | 3 (supports 6 x USB2.0 port), 2 x Type-A   |        |         |               |                           |
|                          | Fan header                    | 5 x 4pin   |        |         |               |                           |
|                          | SMBus                         | 1  |        |         |               |                           |
|                          | Chassis intruder              | 1  |        |         |               |                           |
|                          | Front LAN LED                 | 2  |        |         |               |                           |
|                          | Audio Header                  | 1  |        |         |               |                           |
|                          | Serial port header            | 1  |        |         |               |                           |
|                          |                               |  |        |         |               |                           |
| Rear I/O Connectors      | External serial port          | 1  |        |         |               |                           |
|                          | External USB port             | 6 (2 x USB 3.0)  |        |         |               |                           |
|                          | VGA port                      | 1  |        |         |               |                           |
|                          | RJ-45                         | 3 (1 port dedicated for IPMI function)   |        |         |               |                           |
|                          |                               |  |        |         |               |                           |
|                          |                               |  |        |         |               |                           |
| Management Solution      | Software                      | -  |        |         |               |                           |
|                          | Out of band remote management | Yes  |        |         |               |                           |
| Monitoring               | CPU temperature               | Yes  |        |         |               |                           |
|                          | System Monitoring             | Yes  |        |         |               |                           |
| 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                     |
|                          |                               | 13.69 A  | 7.77 A | 33.48 A | 2 A           | 0.5 A                     |
| Environment              | Temperature                   | Operating  |        |         | Non-operating |                           |
|                          |                               | 0 ~ 60° C, depends on CPU speed and cooler solution  |        |         | -40 ~ 85° C   |                           |
|                          |                               | Humidity   |        |         | 0% ~ 90%      | 5% ~ 95% (Non condensing) |
| Physical Characteristics | Dimensions                    | 304.8 x 244 mm (12" x 9.6")  |        |         |               |                           |

\*ASMB-822/822I can only support DDR3 1600 REG DIMM which is Single/Dual rank.

## Block Diagram



## Ordering Information

| Part Number     | Chipset | Memory                   | LAN | IPMI | Graphic |
|-----------------|---------|--------------------------|-----|------|---------|
| ASMB-822-00A2E  | C602J   | DDR3 Non-ECC/<br>ECC/REG | 2   | -    | AST1300 |
| ASMB-8221-00A2E | C602J   | DDR3 Non-ECC/<br>ECC/REG | 2   | Yes  | AST2300 |

## Packing List

| Part Number    | Description                                    | Quantity |
|----------------|--|----------|
| 2062822100     | Driver CD                                      | x 1      |
| 2002822110     | Startup manual                                 | x 1      |
| 1700003194     | SATA data cables                               | x 2      |
| 1703150102     | SATA power cables                              | x 2      |
| 1700024441-01  | LAN LED cable                                  | x 1      |
| 1960048321T010 | I/O shield                                     | x 1      |
| ASMB-BMC-00A1E | BMC module<br>(only included in ASMB-8221 SKU) | x 1      |

## Bracket View



ASMB-8221-00A2E



ASMB-822-00A2E

## Optional Accessories

| Part Number      | Description                                 |
|------------------|---|
| 1960065593N001   | ASMB-8221 1U CPU heatsink (TDP up to 130W)  |
| 1960063011N001   | ASMB-8221 2U/4U CPU cooler (TDP up to 130W) |
| ASMB-RF3X8-21A1E | 2U Riser Card (2 x PCI-X + 1 x PCIe x8)     |
| PCA-AUDIO-HDA1E  | HD Audio-card                               |
| PCA-TPM-00A1E    | TPM Module by LPC                           |
| 1700002204       | Dual port USB cable (27 cm) with bracket    |
| 1700008461       | Four port USB cable (30.5 cm) with bracket  |
| 1701260305       | COM + Printer Port Cable Kit                |