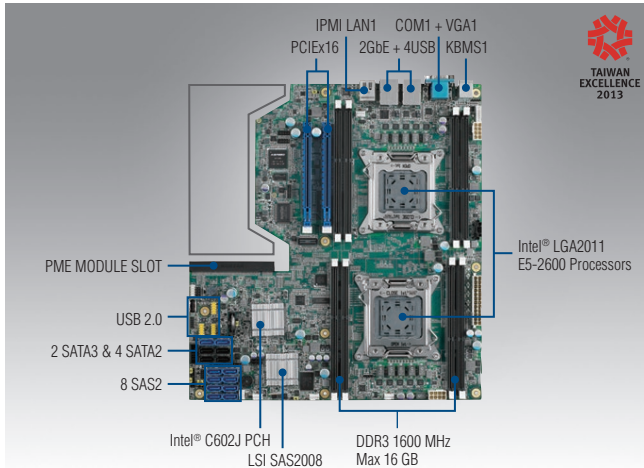


# ASMB-920

## Dual LGA 2011 Intel® Xeon® E5 EATX Server Board with DDR3, 2 PCIe x16 (Gen 3.0), PME Expansion Module, SAS RAID



### Features

- EATX Server Board with dual Xeon® E5 processor, PME flexible expansion and 128GB memory capacity
  - Dual LGA 2011 Intel® Xeon® E5 2600 processors
  - DDR3 1333MHz RDIMM up to 128GB
  - Two Gen 3.0 PCIe x16 slots and PME expansion by PCIe x16 connector
  - 8 SAS ports, 6 SATA ports, totally 14 storage ports
  - 0-40° C ambient operation temperature range
- Note: ASMB-920 must be with 2 CPUs to enable PME function, ASMB-920 with 1 CPU can not enable PME.

**Software APIs:**

- SMBus
- H/W Monitor
- Watchdog

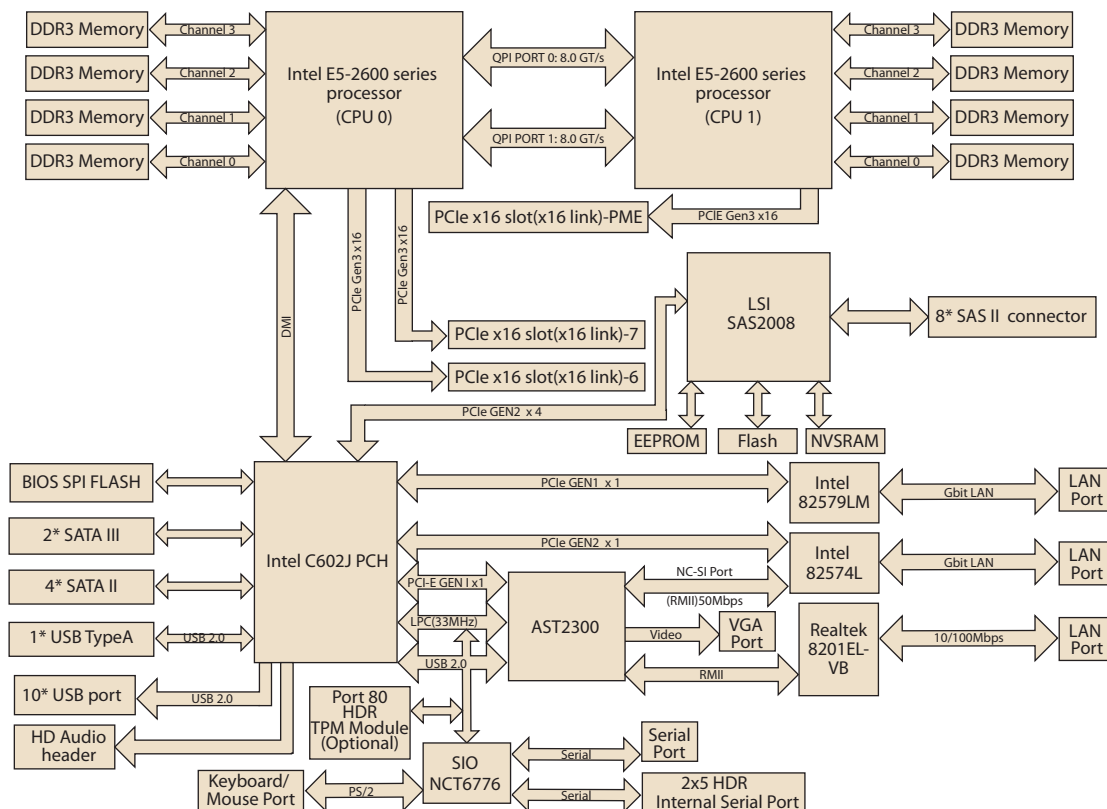
**Utilities:**

- Monitoring

### Specifications

|                          |                               |  |       |        |                           |      |
|--------------------------|-------------------------------|--|-------|--------|---------------------------|------|
| Form Factor              | Extended ATX form factor      |  |       |        |                           |      |
| Processor System         | Socket                        | Intel LGA 2011   |       |        |                           |      |
|                          | CPU type                      | Intel Xeon E5-2600 dual processor (CPU cooler should be purchased separately and TDP up to 95W)                                |       |        |                           |      |
| Core Logic               | Chipset                       | Intel C602J chipset  |       |        |                           |      |
|                          | Total slots                   | 8 (Quad Channel)   |       |        |                           |      |
| Memory                   | Capacity                      | Maximum 128 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    | 5  |       |        |                           |      |
|                          | Slot location 1               | Fit to PME daughter board  |       |        |                           |      |
|                          | Slot location 2               | Fit to PME daughter board  |       |        |                           |      |
|                          | Slot location 3               | Fit to PME daughter board  |       |        |                           |      |
|                          | Slot location 4               | -  |       |        |                           |      |
|                          | Slot location 5               | -  |       |        |                           |      |
|                          | Slot location 6               | 1 x PCIe x16   |       |        |                           |      |
| Graphics                 | VGA                           | Aspeed AST2300 64 MB   |       |        |                           |      |
|                          | 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) |       |        |                           |      |
| Storage                  | SAS controller                | LSI SAS2008 Controller (Supports RAID 0, 1, 1E)  |       |        |                           |      |
|                          | GbE LAN                       | 1 x Intel 82579LM + 1 x Intel 82574L   |       |        |                           |      |
| Onboard I/O Connectors   | PSU connector                 | 24-pin SSI power connector + 8-pin SSI 12 V power connector + 8-pin SSI 12 V power connector                                   |       |        |                           |      |
|                          | USB connector                 | 3 (supports 6 USB port), 1* 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             | 4  |       |        |                           |      |
|                          | VGA port                      | 1  |       |        |                           |      |
|                          | RJ-45                         | 3 (1 port dedicated for IPMI function)   |       |        |                           |      |
| Management Solution      | PS/2 KB/mouse                 | 1  |       |        |                           |      |
|                          | Software                      | -  |       |        |                           |      |
| Monitoring               | Out of band remote management | Yes  |       |        |                           |      |
|                          | CPU temperature               | Yes  |       |        |                           |      |
| Watchdog Timer           | System Monitoring             | Yes  |       |        |                           |      |
|                          | Output                        | System reset   |       |        |                           |      |
| Power Requirement        | Interval                      | Programmable 1 ~ 255 sec/min   |       |        |                           |      |
|                          | Power On                      | 3.3V   | 5V    | 12V    | 5Vsb                      | -12V |
| Environment              |                               | 13.69A   | 8.77A | 55.48A | 2A                        | 0.5A |
|                          | Temperature                   | Operating  |       |        | Non-operating             |      |
| Physical Characteristics | Humidity                      | 0 ~ 40° C, depends on CPU speed and cooler solution  |       |        | -40 ~ 85° C               |      |
|                          | Dimensions                    | 0% ~ 90%   |       |        | 5% ~ 95% (Non condensing) |      |
|                          |                               | 304.8 x 330.2 mm (12" x 13")   |       |        |                           |      |

## Block Diagram



## Ordering Information

| Part Number      | Chipset | Memory          | GbE LAN | IPMI | SAS |
|------------------|---------|-----------------|---------|------|-----|
| ASMB-920-00A1E   | C602J   | DDR3 ECC/Un-ECC | 2       | -    | -   |
| ASMB-920IR-00A1E | C602J   | DDR3 ECC/Un-ECC | 2       | Yes  | Yes |

## Packing List

| Part Number    | Description       | Quantity |
|----------------|-------------------|----------|
| 2062920I00     | Driver CD         | x 1      |
| 2002920I10     | Startup manual    | x 1      |
| 1700003194     | SATA data cables  | x 2      |
| 1703150102     | SATA power cables | x 2      |
| 1960052312T000 | I/O shield        | x 1      |

## Bracket View



ASMB-920IR-00A1E



ASMB-920-00A1E

## Optional Accessories

| Part Number      | Description  |
|------------------|--|
| ASMB-FF3P8-12A1E | PME card with 1 PCIe x8 slot and 1 PCIe x4 slot and 1 PCI slot |
| ASMB-FF3PX-12A1E | PME card with 2 PCI-X and 1 PCI slots                          |
| ASMB-FF20F-02A1E | PME card with 2 PCIe x16 slots                                 |
| ASMB-FF208-02A1E | PME card with 2 PCIe x 8 slots                                 |
| PCA-AUDIO-HDA1E  | HD Audio-card  |
| PCA-TPM-00A1E    | TPM Module   |
| 196005362N001    | LGA2011 CPU cooler for 2U/4U chassis                           |
| 1960057226N001   | LGA2011 CPU heatsink for 1U chassis                            |
| 1700002204       | Dual port USB cable (27 cm) with bracket                       |
| 1700008461       | Four port USB cable (30.5 cm) with bracket                     |
| 1701090401       | COM port cable with bracket                                    |

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## Данный компонент на территории Российской Федерации

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<http://moschip.ru/get-element>

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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