



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

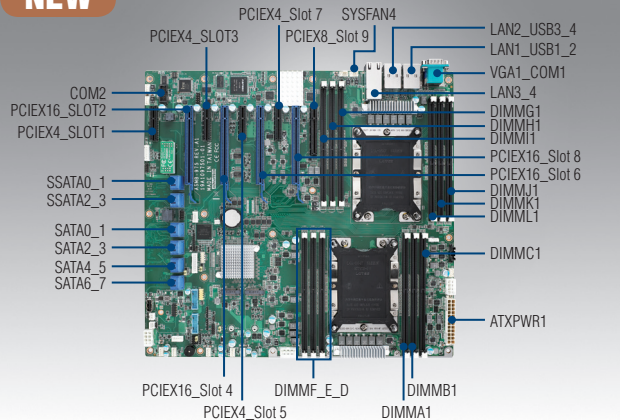
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



ASMB-975

Dual LGA 3647-P0 Intel® Xeon® Scalable Proprietary Server Board with 12 DDR4, 4 PCIe x16 + 1 PCIe x8+4 PCIe x4, 14 SATA3, 8 USB3.0, Dual 10GbE, IPMI

NEW



CE FCC

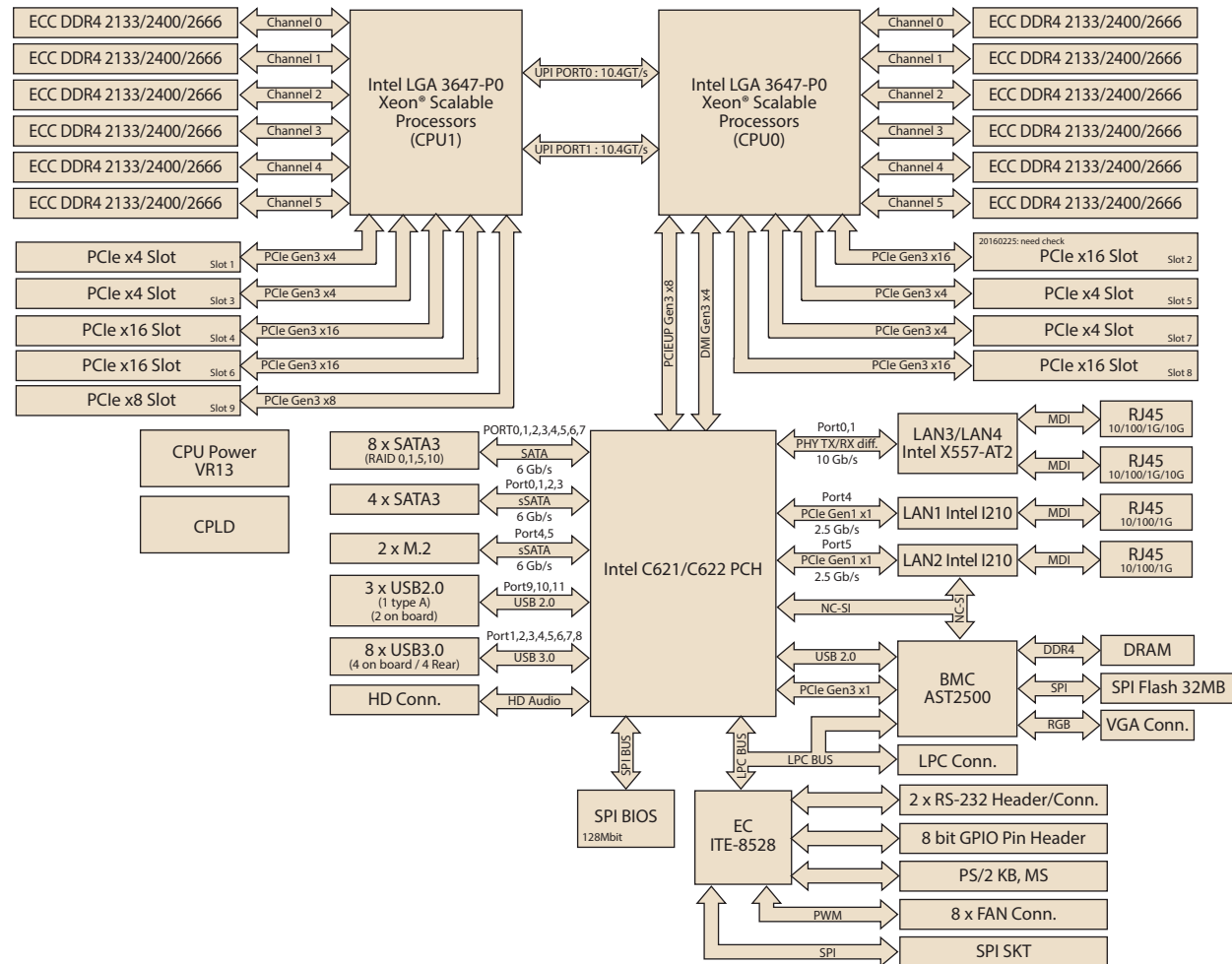
Features

- Proprietary Server Board with dual Xeon® Scalable processors
- DDR4 2666 MHz RDIMM up to 384 GB (12 DIMMs), support Apache Pass
- 14 SATA3 connectors (including 2 SATA M.2)
- Four PCIe x16 slots (Gen3) for double-deck cards
- Intel® X557-AT2 dual 10GbE ports
- 0 ~ 40 °C ambient operation temperature range

Specifications

| | | |
|--------------------------|--|--|
| Form Factor | Proprietary (14.1" x 13") | |
| Processor System | Socket | Intel LGA 3647-P0 |
| | CPU type | Intel Xeon Scalable dual processors (CPU cooler should be purchased separately and TDP up to 205W) |
| Core Logic | Chipset | Intel C621/C622 chipset |
| Memory | Total slots | 12 (1 DIMM per channel) |
| | Capacity | Maximum 384 GB ECC RDIMM |
| | Memory type | DDR4 ECC-REG 2133/2400 /2666 MHz DIMM, support Apache Pass |
| | Memory size | 4 GB, 8 GB, 16 GB, 32 GB |
| Expansion Slots | Total PCIe slots | 9 |
| | Slot location 1 | PCIe x4 slot (x4 link), signal from CPU1 |
| | Slot location 2 | PCIe x16 slot (x16 link), signal from CPU0 |
| | Slot location 3 | PCIe x4 slot (x4 link), signal from CPU1 |
| | Slot location 4 | PCIe x16 slot (x16 link), signal from CPU1 |
| | Slot location 5 | PCIe x4 slot (x4 link), signal from CPU0 |
| | Slot location 6 | PCIe x16 slot (x16 link), signal from CPU1 |
| | Slot location 7 | PCIe x4 slot (x4 link), signal from CPU0 |
| | Slot location 8 | PCIe x16 slot (x16 link), signal from CPU0 |
| Slot location 9 | PCIe x8 slot (x8 link), signal from CPU1 | |
| Graphics | VGA | Aspeed AST 2500/2510 |
| Storage | IDE controller | - |
| | SATA controller | Intel C621/C622: 12 x SATA3 + 2 x M.2 6 Gb/s ports Intel Rapid Storage Technology (for Windows only) |
| | SAS controller | - |
| Networking | GbE/10GbE LAN | 2 x Intel I210AT / Intel X557-AT2 (dual 10GbE ports) |
| Onboard I/O Connectors | Floppy connector | - |
| | PSU connector | 24-pin SSI power connector + 2 x 8-pin SSI 12 V power connector + 4-pin SSI 12 V power connector |
| | USB connector | 2 x USB2.0 ports (two onboard headers) + 4 x USB3.0 ports (two onboard headers) + 1 x Type-A USB2.0 port |
| | Fan header | 8 (6 for system fan + 2 for CPU fan) |
| | SMBus | 1 |
| | Chassis intruder | 1 |
| | Front LAN LED | 2 |
| | Audio Header | 1 |
| | PS/2 KB/Mouse | 1 |
| | Serial port header | 1 |
| Rear I/O Connectors | External serial port | 1 |
| | External USB port | 4 (USB3.0) |
| | VGA port | 1 |
| | RJ-45 | 4 (LAN2 sharing IPMI) |
| | PS/2 KB/mouse | - |
| | Infiniband | - |
| 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 | 3.3V 1.37A 5V 6.83A 12V 0.09A 5Vsb 0.14A -12V 0.03A 8P_0 4.4A 8P_1 4.2A |
| | Operating | Non-operating |
| Environment | Temperature | 0 ~ 40 °C, depends on CPU speed and cooler solution -40 ~ 85 °C |
| | Humidity | 10% ~ 95% 10% ~ 95% (Non condensing) |
| Physical Characteristics | Dimension (L x H) | 358.1 x 330.2 mm (14.1" x 13") |

Block Diagram



Ordering Information

| Part Number | Chipset | Memory | GbE/10GbE LAN | IPMI | VGA Chip |
|-----------------|---------|------------|---------------|------|----------|
| ASMB-975-00A1 | C621 | DDR4 RDIMM | 2/- | - | AST 2510 |
| ASMB-975I-00A1 | C621 | DDR4 RDIMM | 2/- | Yes | AST 2500 |
| ASMB-975T2-00A1 | C622 | DDR4 RDIMM | 2/2 | Yes | AST 2500 |

Packing List

| Part Number | Description | Quantity |
|----------------|-------------------|----------|
| 2066975I00 | Driver CD | x 1 |
| 2001097500 | Startup manual | x 1 |
| 1700003194 | SATA data cables | x 2 |
| 1700022749-11 | SATA power cables | x 2 |
| 1700019748 | CPU power cable | x 2 |
| 1960076489I000 | I/O shield | x 1 |

Optional Accessories

| Part Number | Description |
|-----------------|--|
| PCA-AUDIO-HDB1E | HD Audio-card |
| PCA-TPM-00B1E | TPM 2.0 Module by LPC |
| 1960081603N001 | LGA-3647 narrow CPU cooler for 2U/4U chassis |
| 1960081155N001 | LGA-3647 narrow CPU cooler for 1U chassis |
| 1700002204 | Dual port USB cable (27 cm) with bracket |
| 1700008461 | Four port USB cable (30.5 cm) with bracket |
| 1700020277-01 | Dual port USB 3.0 cable (30 cm) with bracket |
| 1701090401 | COM port cable with bracket |

I/O View



ASMB-975-00A1
ASMB-975I-00A1



ASMB-975T2-00A1