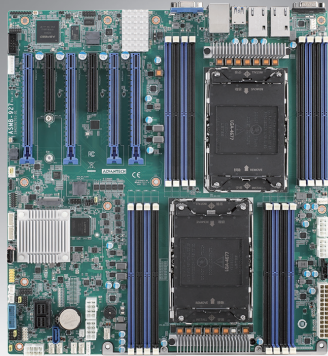


# ASMB-927

## Dual 4th Gen Intel® Xeon® Scalable EATX Server Board with 16x DDR5, 4x PCIe x16, 9x SATA 3, 6x USB 3.2 (Gen1), Dual 10GbE, and IPMI



### Features

- LGA4677 EATX server board with 4th Gen. Xeon® Scalable processor
- DDR5 4400/4800 MHz RDIMM up to 4TB (16 DIMMs) supports Intel® Optane™ Persistent Memory
- Features 4x PCIe x16 and 2x PCIe x8
- Intel® X710-AT2 dual 10GbE ports
- Nine SATA 3 and one M.2 connector (SATA/PCIe compatible)
- 0 ~ 40 °C (32 ~ 104 °F) ambient operating temperature range

CE FCC

### Specifications

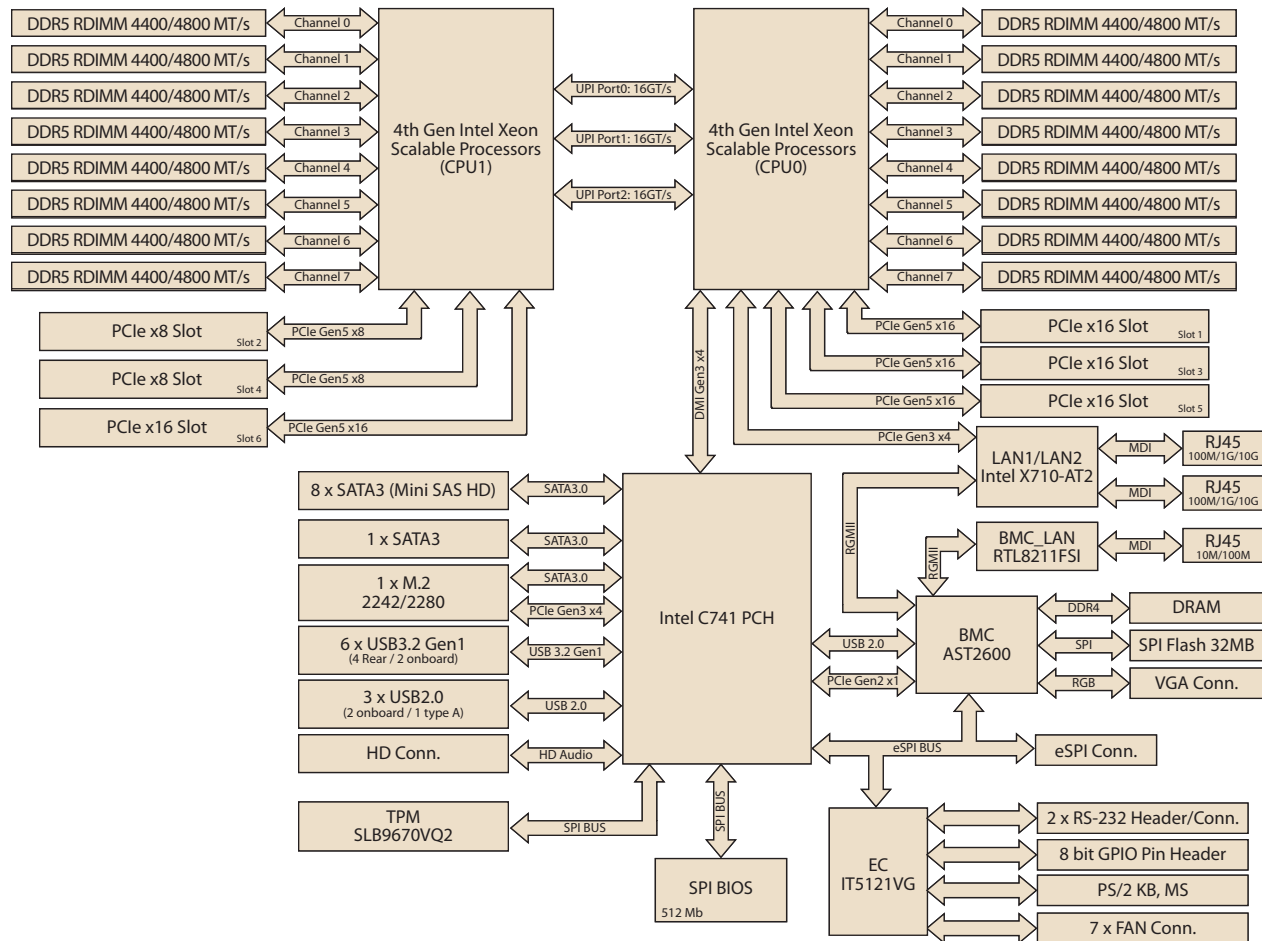
|                          |                                    |   |
|--------------------------|------------------------------------|---|
| Form Factor              |                                    | EATX form factor  |
| Processor System         | Socket                             | Dual Intel® LGA4677 (Socket E)  |
|                          | CPU type                           | 4th Gen Intel Xeon Scalable processors (CPU cooler should be purchased separately*)                                 |
| Core Logic               | Chipset                            | Intel C741 chipset  |
| Memory                   | Total slots                        | 16x (1 DIMM per channel)  |
|                          | Capacity                           | Maximum 4TB ECC RDIMM   |
|                          | Memory type                        | DDR5 ECC-REG 4400/4800 MHz RDIMM, supports Intel® Optane™ Persistent Memory   |
|                          | Memory size                        | 16GB, 32GB, 64GB, 128GB, 256GB  |
| Expansion Slots          | Total PCI/PCI-X/PCIe slots         | 6   |
|                          | Slot location 1                    | PCIe x16 slot (Gen5 x16 link), signal from CPU0, CXL support**  |
|                          | Slot location 2                    | PCIe x8 slot (Gen5 x8 link), signal from CPU1   |
|                          | Slot location 3                    | PCIe x16 slot (Gen5 x16 link), signal from CPU0, CXL support**  |
|                          | Slot location 4                    | PCIe x8 slot (Gen5 x8 link), signal from CPU1   |
|                          | Slot location 5                    | PCIe x16 slot (Gen5 x16 link), signal from CPU0, CXL support**  |
| Graphics                 | VGA                                | Aspeed AST2600  |
|                          | Storage                            | Intel® C741: 8 x SATA3.0 (6 Gb/s) via Mini SAS HD (SFF-8643), support software RAID 0,1,5,10<br>1 x SATA3.0 (6Gb/s) |
| Networking               | GbE/10GbE LAN                      | Intel® X710-AT2 (dual 10GbE ports)  |
| Onboard I/O Connector    | PSU connector                      | 24-pin SSI power connector + 5 x 8-pin SSI 12 V power connector***  |
|                          | USB connector                      | 2 x USB 2.0 ports (one onboard header) + 2 x USB 3.2 Gen1 ports (one onboard header) + 1 x Type-A USB 2.0 port      |
|                          | Fan header                         | 7 x 4pin (5 for system + 2 for CPU)   |
|                          | M.2                                | 1 x M.2 2242/2280 B+M key (SATA and PCIe)   |
|                          | SMBus                              | 1   |
|                          | Chassis intrusion                  | 1   |
|                          | Front LAN LED                      | 1   |
|                          | Audio Header                       | 1   |
|                          | PS/2 Keyboard/Mouse header         | 1   |
| Rear I/O Connector       | Serial port header                 | 1   |
|                          | External serial port               | 1   |
|                          | External USB port                  | 4 (USB 3.2 Gen1)  |
|                          | VGA port                           | 1   |
|                          | RJ-45                              | 3 (1 port dedicated LAN and 1 port shared LAN for IPMI function)  |
|                          | PS/2 Keyboard/Mouse                | -   |
| Management Solution      | Infiniband                         | -   |
|                          | 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      12V_8P   |
|                          | (205W CPU@1.6GHz DDR5 4800 64G*16) | 2.2A      1.9A      0.3A      0.1A      0A      38.53A  |
| Environment              | Operating                          | Non-operating   |
|                          | Temperature                        | 0 ~ 40 °C/ 32 ~ 104 °F, depends on CPU speed and cooler solution  |
| Physical Characteristics | Humidity                           | -40 ~ 85 °C/-40 ~ 185 °F  |
|                          | Dimension (L x H)                  | 10% ~ 95%<br>304.8 x 330.2 mm (12" x 13")   |

\*CPU power design support up to 250W TDP. Please consider extended air thermal solution while using CPU > 250W TDP.

\*\*CXL 1.1 Type 1 and Type 2 device.

\*\*\*Please connect all 8-pin CPU PWR Conn. (ATX12V1/ ATX12V2/ ATX12V3/ ATX12V4) when using dual CPU both up to 205W TDP.

### Block Diagram



### Ordering Information

| Part Number     | Chipset | Memory          | GbE/10GbE LAN | IPMI | Graphics |
|-----------------|---------|-----------------|---------------|------|----------|
| ASMB-927T2-00A1 | C741    | 16 x DDR5 RDIMM | -/2           | Yes  | AST2600  |

### Packing List

| Part Number    | Description                     | Quantity |
|----------------|---------------------------------|----------|
| 2042092700     | Startup manual                  | x 1      |
| 1700003194     | SATA data cables                | x 1      |
| 1700022749-11  | SATA power cables               | x 1      |
| 1700019748     | CPU power cable                 | x 2      |
| 1930005673-11  | Screw for M.2 device            | x 1      |
| 1960105615T001 | I/O shield                      | x 1      |
| 1651003739-01  | LGA4677 CPU carrier - E1B (MCC) | x 2      |

### Optional Accessories

| Part Number     | Description   |
|-----------------|---|
| PCA-AUDIO-HDB1E | HD Audio-card   |
| 1970005575T001  | LGA-4677 narrow CPU heatsink for 1U chassis (185W)            |
| 1970005860N000  | LGA4677 CPU cooler for 2U/4U chassis (250W)                   |
| 1700028025-01   | Dual port USB 2.0 cable (45 cm / 17.7 in) with bracket        |
| 1700028024-01   | Dual port USB 3.2 (Gen1) cable (45 cm / 17.7 in) with bracket |
| 1701090401      | Single port RS-232 COM cable (40 cm / 15.7 in) with bracket   |
| 1700019268-11   | Cable for onboard KBMS1 connector (35 cm / 13.7 in)           |
| 1960063434N000  | Cable bracket for 1700019268-11                               |
| 1960115544N001  | For 1U chassis I/O shield                                     |

Note:  
 1. PCA-AUDIO-HDB1E is not compatible with Advantech 3U chassis.  
 2. Select SATA cable (SFF-8643) from HPC chassis datasheet or contact sales representative.

### I/O View



ASMB-927T2-00A1

# Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



## AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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### PRŮMYSLOVÉ POČÍTAČE

*fanless embedded PC, do racku, ...*



### POČÍTAČE S DISPLEJEM

*panelové PC, terminály, do vozidel, ...*



### AUTOMATIZACE A SBĚR DAT

*převodníky, karty, moduly, switche, ...*



### PERIFERIE A KOMPONENTY

*monitory, klávesnice, desky, skříně, ...*



### NOTEBOOKY A TABLETY

*odolné, windows, android, IP65, ...*



### INFORMAČNÍ KIOSKY

*interiérové, venkovní, ...*



### MEDICÍNSKÁ TECHNIKA

*počítače, tablety, LCD, klávesnice, ...*



### SOFTWAREVÁ ŘEŠENÍ

*pro výrobu, zaměstnance, kiosky, ...*



### PŘEJÍT DO E-SHOPU

[eshop.autocont-ipc.cz](http://eshop.autocont-ipc.cz)



### DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.



### PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.



### ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



### SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.