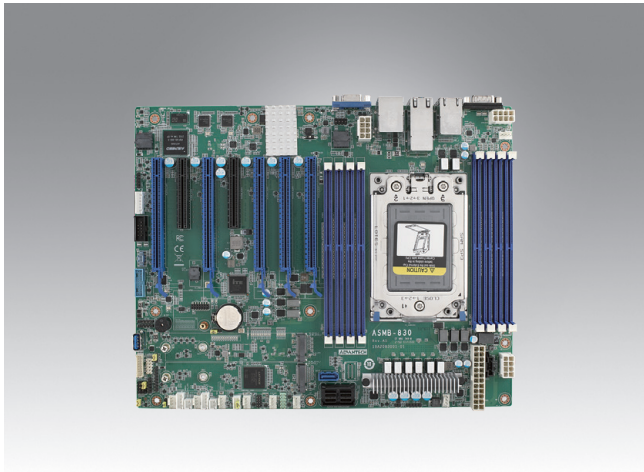


# ASMB-830

**LGA 4094 AMD® EPYC™ 7003 ATX Server Board with 8x DDR4, 5x PCIe 4.0 x16 + 2x PCIe 4.0 x8, 9x SATA 3, 5x USB 3.0, Dual 10GbE, and IPMI**



CE FCC

## Features

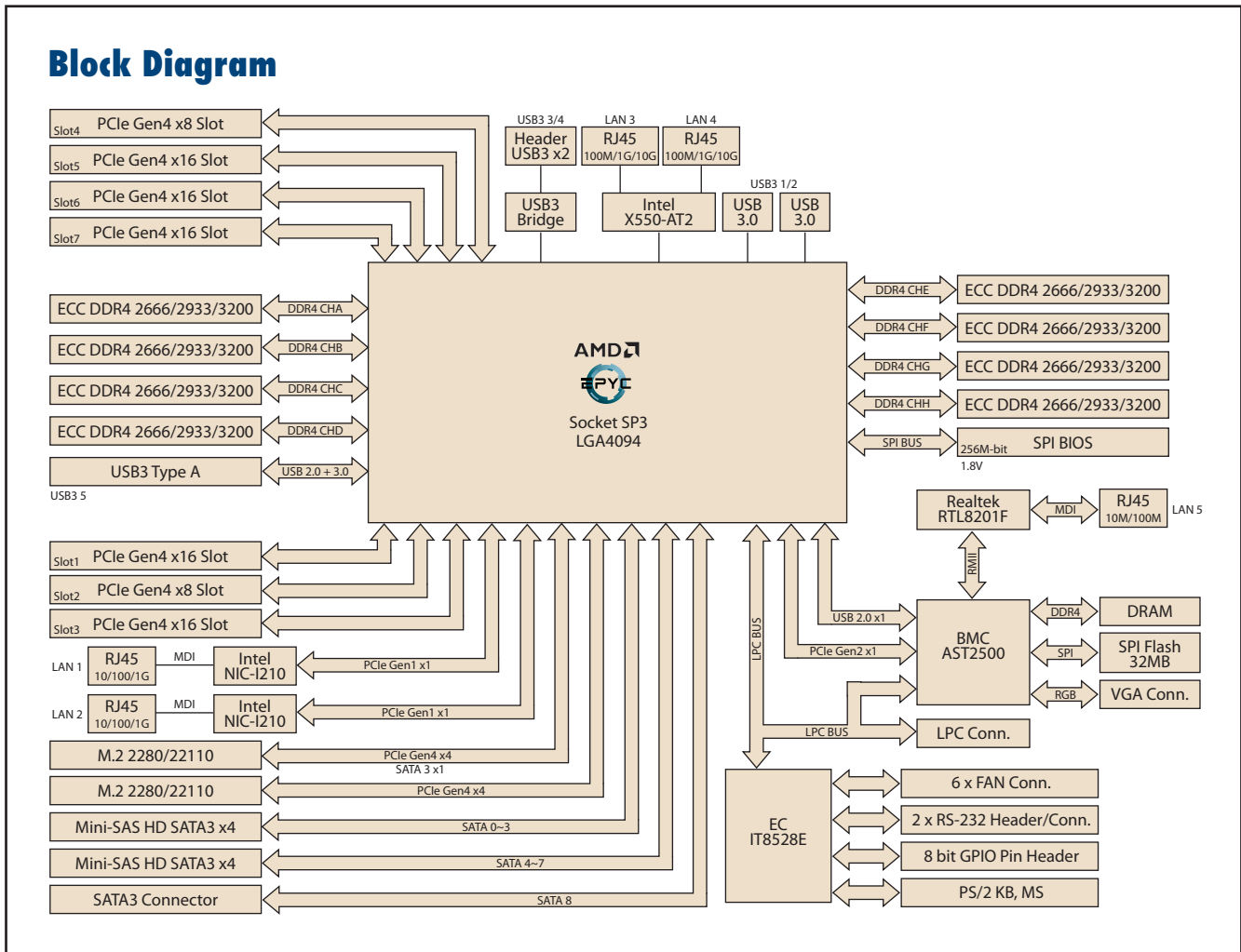
- LGA 4094 (Socket SP3) ATX server board with AMD EPYC™ 7003 processor
- DDR4 3200 MHz RDIMM up to 128GB per DIMM
- Features 5x PCIe 4.0 x16, 2x PCIe 4.0 x8
- Intel® X550 dual 10GbE ports
- Eight (via SFF-8643 connector) + one SATA 3 and two M.2 connectors (SATA/PCIe 4.0 compatible)
- 0 ~ 60 °C/ 32 ~ 140 °F ambient operating temperature range

## Specifications

|                          |                                   |   |              |        |                            |          |          |
|--------------------------|-----------------------------------|---|--------------|--------|----------------------------|----------|----------|
| Form Factor              | ATX form factor                   |   |              |        |                            |          |          |
| Processor System         | Socket                            | AMD LGA 4094 (Socket SP3)   |              |        |                            |          |          |
|                          | CPU type                          | AMD EPYC™ 7003 processors (CPU cooler should be purchased separately*)      |              |        |                            |          |          |
| Memory                   | Total slots                       | 8x (1 DIMM per channel)   |              |        |                            |          |          |
|                          | Capacity                          | Maximum 128GB ECC-REG per DIMM  |              |        |                            |          |          |
|                          | Memory type                       | DDR4 ECC-REG 2666/2933/3200 MHz RDIMM/LRDIMM                                |              |        |                            |          |          |
|                          | Memory size                       | 8 GB, 16 GB, 32 GB, 64 GB, 128GB (LRDIMM)                                   |              |        |                            |          |          |
| Expansion Slots          | Total PCI/PCI-X/PCIe slots        | 7   |              |        |                            |          |          |
|                          | Slot location 1                   | PCIe x16 slot (Gen4 x16 link)   |              |        |                            |          |          |
|                          | Slot location 2                   | PCIe x8 slot (Gen4 x8 link)   |              |        |                            |          |          |
|                          | Slot location 3                   | PCIe x16 slot (Gen4 x16 link)   |              |        |                            |          |          |
|                          | Slot location 4                   | PCIe x8 slot (Gen4 x8 link)   |              |        |                            |          |          |
|                          | Slot location 5                   | PCIe x16 slot (Gen4 x16 link)   |              |        |                            |          |          |
|                          | Slot location 6                   | PCIe x16 slot (Gen4 x16 link)   |              |        |                            |          |          |
| Graphics                 | VGA                               | ASPEED AST2500  |              |        |                            |          |          |
|                          | SATA controller                   | AMD EPYC™ CPU integrated: Eight (via Mini-SAS HD SFF-8643) + one SATA3      |              |        |                            |          |          |
| Storage                  | SAS controller                    | -   |              |        |                            |          |          |
|                          | Networking                        | GbE/10GbE LAN   |              |        |                            |          |          |
| Onboard I/O Connector    | PSU connector                     | 24-pin SSI power connector + 3 x 8-pin SSI 12 V power connector             |              |        |                            |          |          |
|                          | USB connector                     | 4 x USB 3.0 ports (two onboard headers) + 1 x Type-A USB 3.0 port           |              |        |                            |          |          |
|                          | Fan header                        | 6 x 4-pin (5 for system + 1 for CPU)  |              |        |                            |          |          |
|                          | M.2                               | 1 x M.2 2280/22110 (PCIe Gen4 / SATA) + 1 x M.2 2280/22110 (PCIe Gen4 only) |              |        |                            |          |          |
|                          | SMBus                             | 1   |              |        |                            |          |          |
|                          | Chassis intruder                  | 1   |              |        |                            |          |          |
|                          | Front LAN LED                     | 1   |              |        |                            |          |          |
|                          | PS/2 KB/Mouse header              | 1   |              |        |                            |          |          |
|                          | Serial port header                | 1   |              |        |                            |          |          |
|                          | Rear I/O Connector                | External serial port  | 1            |        |                            |          |          |
|                          |                                   | External USB port   | 2x (USB 3.0) |        |                            |          |          |
| VGA port                 |                                   | 1   |              |        |                            |          |          |
| RJ-45                    |                                   | 5x (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                          | 3.3V  | 5V           | 12V    | 5Vsb                       | 12V_8P_0 | 12V_8P_1 |
|                          | (225W CPU@2.0GHz DDR4-2666 32G*8) | 1.782A  | 1.704A       | 1.379A | 0.142A                     | 16.978A  | 8.227A   |
| Environment              | Temperature                       | Operating   |              |        | Non-operating              |          |          |
|                          |                                   | 0 ~ 60 °C/32 ~ 140 °F, depends on CPU speed and cooling solution            |              |        | -40 ~ 85 °C/-40 ~ 185 °F   |          |          |
|                          | Humidity                          | 10% ~ 95%   |              |        | 10% ~ 95% (Non condensing) |          |          |
| Physical Characteristics | Dimension (L x H)                 | 304 x 244 mm (12 x 9.6 in)  |              |        |                            |          |          |

\*CPU power design support up to 225W TDP. Please consider extended air thermal solution while using CPU > 180W TDP

### Block Diagram



### Ordering Information

| Part Number     | Memory            | GbE/10GbE LAN | IPMI | Graphics |
|-----------------|-------------------|---------------|------|----------|
| ASMB-830I-00A1  | DDR4 ECC-REG DIMM | 2/-           | Yes  | AST 2500 |
| ASMB-830T2-00A1 | DDR4 ECC-REG DIMM | 2/2           | Yes  | AST 2500 |

### Packing List

| Part Number    | Description          | Quantity |
|----------------|----------------------|----------|
| 2042083000     | 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 2      |
| 1960093947T002 | I/O Shield           | x 1      |

### Optional Accessories

| Part Number    | Description  |
|----------------|--|
| PCA-TPM-00B1E  | TPM 2.0 Module by LPC                                |
| 1970004817N001 | LGA 4094 CPU cooler for 2U/4U chassis (225W)         |
| 1700028292-01  | Dual port USB 3.0 cable (30 cm/11.8 in) with bracket |
| 1701090401     | COM port cable (40 cm/15.7 in) with bracket          |
| 1700019268-11  | PS/2 port cable (35 cm/13.77 in)                     |
| 1960063434N000 | Cable bracket for 1700019268-11                      |
| 1960106191N001 | For 1U chassis I/O shield                            |

Note:  
1. Select SATA cable (SFF-8643) from HPC chassis datasheet or contact sales representative.

### I/O View



ASMB-830I-00A1



ASMB-830T2-00A1

# 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

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### 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.