

# Supermicro A+ Server AS-4023S-TRT Tower 4U DP 8xLFF RED PSU

Kod producenta: AS -4023S-TRT



|                        |                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chassis Form Factor    | Tower/4U                                                                                                                                                                        |
| CPU Socket             | LGA 4094 (Socket SP3)                                                                                                                                                           |
| # of CPU sockets       | 2                                                                                                                                                                               |
| Supported CPU's        | AMD EPYC 7001<br>AMD EPYC 7002                                                                                                                                                  |
| Chipset                | System on Chip                                                                                                                                                                  |
| Memory Type            | DDR4 ECC RDIMM                                                                                                                                                                  |
| Memory Speed           | 2666 MHz                                                                                                                                                                        |
| # of DIMM's            | 16                                                                                                                                                                              |
| Max Memory Size        | 2048 GB                                                                                                                                                                         |
| Integrated GPU         | Aspeed AST2500                                                                                                                                                                  |
| # of 3.5 hot-swap bays | 8                                                                                                                                                                               |
| Backplanes             | SATA3/SAS3                                                                                                                                                                      |
| # of PCIe x16 3.0      | 2                                                                                                                                                                               |
| # of PCIe x8 3.0       | 3                                                                                                                                                                               |
| # of USB Ports         | 2 x USB 3.0 (rear)<br>2 x USB 2.0 (rear)<br>2 x USB 2.0 (header)                                                                                                                |
| # of SATA Ports        | 10                                                                                                                                                                              |
| # of SATA DOM power    | 2                                                                                                                                                                               |
| Storage Controllers    | 10 x AHCI iSATA 6Gb/s                                                                                                                                                           |
| # of Serial Ports      | 1 x Fast UART 16550 (rear)                                                                                                                                                      |
| # of 10GbE Ports       | 2 x RJ45                                                                                                                                                                        |
| Network Controllers    | Intel x540 Dual Port 10 Gigabit Base-T                                                                                                                                          |
| Integrated BMC         | IPMI Dedicated RJ45                                                                                                                                                             |
| BMC chip               | Aspeed AST2500                                                                                                                                                                  |
| TPM                    | 1 x TPM 1.2 20-pin Header                                                                                                                                                       |
| Power Supply           | Redundant                                                                                                                                                                       |
| PSU Wattage            | 1280 W                                                                                                                                                                          |
| PSU Certification      | 80+ Platinum                                                                                                                                                                    |
| Chassis Dimensions     | 452 x 178 x 647 mm                                                                                                                                                              |
| Uwagi                  | HDD bays configuration:<br>1x M.2 NVMe SSD supported<br>8x SAS3 ports support (SAS Add-on card is optional)<br>AMD EPYC 7002 series drop-in support requires board revision 2.x |

|                     |                                                                                                                                                                                                                         |                                                                                    |                                                                                                                                                                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product SKUs        |                                                                                                                                                                                                                         | Chassis                                                                            |                                                                                                                                                                                                                                                                                                 |
| AS-4023S-TRT        | <ul style="list-style-type: none"><li>• A+ Server 4023S-TRT</li></ul>                                                                                                                                                   | Form Factor                                                                        | <ul style="list-style-type: none"><li>• Tower / 4U Rackmountable</li></ul>                                                                                                                                                                                                                      |
|                     |                                                                                                                                                                                                                         | Model                                                                              | <ul style="list-style-type: none"><li>• <b>CSE-745BAC-R1K28BP2</b></li></ul>                                                                                                                                                                                                                    |
| Motherboard         |                                                                                                                                                                                                                         | Dimensions                                                                         |                                                                                                                                                                                                                                                                                                 |
| <b>H11DSI-NT</b>    |                                                                                                                                                                                                                         | Height                                                                             | <ul style="list-style-type: none"><li>• 17.8" (452mm)</li></ul>                                                                                                                                                                                                                                 |
|                     |                                                                                                                                                                                                                         | Width                                                                              | <ul style="list-style-type: none"><li>• 7" (178mm)</li></ul>                                                                                                                                                                                                                                    |
| Processor/Chipset   |                                                                                                                                                                                                                         | Depth                                                                              | <ul style="list-style-type: none"><li>• 25.5" (647mm)</li></ul>                                                                                                                                                                                                                                 |
| CPU                 | <ul style="list-style-type: none"><li>• Dual AMD EPYC™ 7000-series Processors</li><li>• Socket SP3</li></ul>                                                                                                            | Front Panel                                                                        |                                                                                                                                                                                                                                                                                                 |
| Chipset             | <ul style="list-style-type: none"><li>• System on Chip (SoC)</li></ul>                                                                                                                                                  | Buttons                                                                            | <ul style="list-style-type: none"><li>• Power On/Off button</li><li>• System Reset button</li><li>• Power LED</li><li>• Hard drive activity LED</li><li>• 2x Network activity LEDs</li><li>• System Overheat LED / Fan fail LED / UID LED</li></ul>                                             |
| System Memory       |                                                                                                                                                                                                                         |                                                                                    |                                                                                                                                                                                                                                                                                                 |
| Memory Capacity     | <ul style="list-style-type: none"><li>• 16 DIMM sockets</li><li>• Supports up to 2TB Registered ECC DDR4 2666MHz SDRAM in 16 DIMMs</li><li>• 8-channel memory bus</li></ul>                                             | LEDs                                                                               |                                                                                                                                                                                                                                                                                                 |
| Memory Type         | <ul style="list-style-type: none"><li>• DDR4 2666 MHz Registered ECC, 240-pin gold-plated DIMMs</li></ul>                                                                                                               | Drive Bays                                                                         |                                                                                                                                                                                                                                                                                                 |
| DIMM Sizes          | <ul style="list-style-type: none"><li>• 8GB, 16GB, 32GB, 64GB, 128GB</li></ul>                                                                                                                                          | Hot-swap                                                                           | <ul style="list-style-type: none"><li>• 8 hot-swap 3.5" Drive Bays:<ul style="list-style-type: none"><li>- 8 SATA3 by default</li><li>- or 8 SAS3</li></ul></li></ul>                                                                                                                           |
| Memory Voltage      | <ul style="list-style-type: none"><li>• 1.2V</li></ul>                                                                                                                                                                  |                                                                                    |                                                                                                                                                                                                                                                                                                 |
| Error Detection     | <ul style="list-style-type: none"><li>• Corrects single-bit errors</li><li>• Detects double-bit errors (using ECC memory)</li></ul>                                                                                     | Peripheral Drives                                                                  |                                                                                                                                                                                                                                                                                                 |
|                     |                                                                                                                                                                                                                         | 5.25"                                                                              | <ul style="list-style-type: none"><li>• 3 peripheral 5.25" drive bays</li></ul>                                                                                                                                                                                                                 |
| On-Board Devices    |                                                                                                                                                                                                                         | Backplane                                                                          |                                                                                                                                                                                                                                                                                                 |
| SATA                | <ul style="list-style-type: none"><li>• SATA3 (6 Gbps)</li><li>• Support for Intelligent Platform Management Interface v.2.0</li></ul>                                                                                  | HDD Backplane                                                                      | <ul style="list-style-type: none"><li>• Supports 8 SATA3 or 8 SAS3 HDD</li></ul>                                                                                                                                                                                                                |
| IPMI                | <ul style="list-style-type: none"><li>• IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li><li>• ASPEED AST2500 BMC</li><li>• 2 Intel® X550 10GBase-T Ethernet Controllers</li></ul>                     | System Cooling                                                                     |                                                                                                                                                                                                                                                                                                 |
| Network Controllers | <ul style="list-style-type: none"><li>• 1 Realtek RTL8211E PHY (dedicated IPMI)</li></ul>                                                                                                                               | Fans                                                                               | <ul style="list-style-type: none"><li>• 2 2800 RPM fans</li><li>• 1 2700 RPM fan</li></ul>                                                                                                                                                                                                      |
| VGA                 | <ul style="list-style-type: none"><li>• ASPEED AST2500 BMC</li></ul>                                                                                                                                                    | Power Supply                                                                       |                                                                                                                                                                                                                                                                                                 |
|                     |                                                                                                                                                                                                                         | 1280W Redundant High-efficiency Digital Power Supplies w/ PMBus 1.2                |                                                                                                                                                                                                                                                                                                 |
| Expansion Slots     |                                                                                                                                                                                                                         | AC Input                                                                           | <ul style="list-style-type: none"><li>• 1000W Output @ 100-140V, 8-12A, 50-60Hz</li><li>• 1280W Output @ 180-240V, 6-8A, 50-60Hz</li></ul>                                                                                                                                                      |
| Tower/4U            | <ul style="list-style-type: none"><li>• 2 PCI-E x16 slots</li><li>• 3 PCI-E x8 slots</li></ul>                                                                                                                          | DC Output                                                                          | <ul style="list-style-type: none"><li>• 1000W: +12V/83A; +5Vsb/4A</li><li>• 1280W: +12V/106.7A, +5Vsb/4A</li></ul>                                                                                                                                                                              |
| Input / Output      |                                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                                                                 |
| SATA                | <ul style="list-style-type: none"><li>• 10 SATA3 (6 Gbps) ports</li></ul>                                                                                                                                               | Certification                                                                      | <b>Platinum Certified</b><br><b>[ Test Report ]</b>                                                                                                                                                                                                                                             |
| LAN                 | <ul style="list-style-type: none"><li>• Dual 10G LAN ports</li><li>• 1 RJ45 Dedicated IPMI LAN port</li></ul>                                                                                                           | PC Health Monitoring                                                               |                                                                                                                                                                                                                                                                                                 |
| USB                 | <ul style="list-style-type: none"><li>• 2 USB 3.0 ports (rear)</li><li>• 4 USB 2.0 ports (2 rear + 2 via header)</li></ul>                                                                                              | CPU                                                                                | <ul style="list-style-type: none"><li>• Monitors CPU Core Voltages, +12V, +3.3V, +5V, +5V standby, 3.3V standby, VBAT</li><li>• CPU switching voltage regulator</li><li>• Up to 8-fan status tachometer monitoring</li></ul>                                                                    |
| VGA                 | <ul style="list-style-type: none"><li>• 1 VGA port</li></ul>                                                                                                                                                            | FAN                                                                                | <ul style="list-style-type: none"><li>• Up to eight 4-pin fan headers</li><li>• Status monitor for speed control</li><li>• Pulse Width Modulated (PWM) fan connectors</li><li>• Monitoring for CPU and chassis environment</li></ul>                                                            |
| SAS                 | <ul style="list-style-type: none"><li>• 8 SAS3 ports support via optional Add-on Card</li></ul>                                                                                                                         | Temperature                                                                        | <ul style="list-style-type: none"><li>• CPU Thermal Trip Support</li><li>• Thermal control for 8x Fan connectors</li><li>• iC Temperature Sensing Logic</li></ul>                                                                                                                               |
| NVMe                | <ul style="list-style-type: none"><li>• 2 NVMe support with optional cables</li></ul>                                                                                                                                   | LED                                                                                | <ul style="list-style-type: none"><li>• CPU / System Overheat LED</li></ul>                                                                                                                                                                                                                     |
| Keyboard / Mouse    | <ul style="list-style-type: none"><li>• PS/2 keyboard and mouse ports</li></ul>                                                                                                                                         | Other Features                                                                     | <ul style="list-style-type: none"><li>• Chassis Intrusion Detection</li><li>• Chassis Intrusion Header</li></ul>                                                                                                                                                                                |
| Others              | <ul style="list-style-type: none"><li>• 1 COM port (rear)</li><li>• 2 SATA DOM power connector</li><li>• TPM 1.2 header</li></ul>                                                                                       | Operating Environment / Compliance                                                 |                                                                                                                                                                                                                                                                                                 |
| System BIOS         |                                                                                                                                                                                                                         | RoHS                                                                               | <ul style="list-style-type: none"><li>• RoHS Compliant</li><li>• Operating Temperature:<ul style="list-style-type: none"><li>10°C to 35°C (50°F to 95°F)</li></ul></li><li>• Non-operating Temperature:<ul style="list-style-type: none"><li>-40°C to 70°C (-40°F to 158°F)</li></ul></li></ul> |
| BIOS Type           | <ul style="list-style-type: none"><li>• AMI 128Mb SPI Flash EEPROM</li><li>• Plug and Play (PnP)</li><li>• DMI 2.3</li><li>• PCI 2.2</li><li>• ACPI 5.1</li><li>• USB Keyboard Support</li><li>• SMBIOS 3.1.1</li></ul> | Environmental Spec.                                                                | <ul style="list-style-type: none"><li>• Operating Relative Humidity:<ul style="list-style-type: none"><li>8% to 90% (non-condensing)</li></ul></li><li>• Non-operating Relative Humidity:<ul style="list-style-type: none"><li>5% to 95% (non-condensing)</li></ul></li></ul>                   |
| BIOS Features       |                                                                                                                                                                                                                         |                                                                                    |                                                                                                                                                                                                                                                                                                 |

Strona firmowa produktu:  
<https://www.superstorage.pl/supermicro-server-as-4023s-trt-tower-4u-dp-8xlpf-red-psu-p-3131.html>