



# Mainstream A+ Server AS -2015A-TR

2U UP Mainstream with up to 8 hot-swap 3.5" SAS/SATA bays and 1 PCIe 5.0 slot + 1 PCIe 4.0 slot



## Key Applications

Designed for financial companies, AMD Xilinx Solarflare X2 and X3 Ethernet adapters validated,

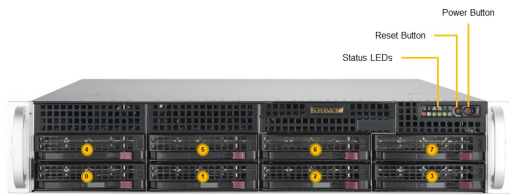
## Key Features

- AMD EPYC™ 4004 or Ryzen™ 7000 / 9000 series LGA1718 up to 170W TDP Processors;
- 4 DDR5-5200 UDIMM ECC/Non-ECC slots supporting up to 192GB memory;
- 2 PCIe 5.0 x16 HHHL slots (16/NA or 8/8);
- IPMI 2.0 + KVM with Dedicated LAN (1GbE)  
Dual 1GbE LAN (Intel® I210-AT);
- 800W High-Efficiency Power Supply Titanium Level Certified;



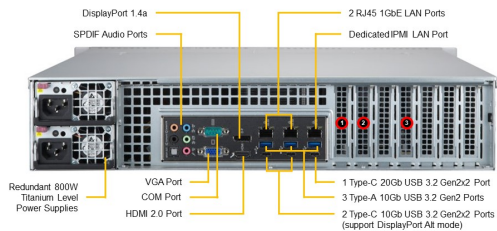
|                          |                                                                                                                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | 2U<br>Enclosure: 437 x 89 x 647mm (17.2" x 3.5" x 25.5")<br>Package: 678 x 290 x 876mm (26.7" x 11.4" x 34.5")                                                                                                                 |
| Processor                | Single processor(s)<br>AMD EPYC™ 4004 or AMD Ryzen™ 7000 / 9000 Series Processors<br>Up to 16C/32T                                                                                                                             |
| GPU                      | Max GPU Count: Up to 1 double-width or 2 single-width GPUs<br>Supported GPU: NVIDIA PCIe: RTX A2000, L4<br>CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect                                                          |
| System Memory            | Slot Count: 4 DIMM slots<br>Max Memory (2DPC): Up to 192GB 5200MT/s ECC/non-ECC DDR5 UDIMM                                                                                                                                     |
| Drive Bays Configuration | Default: Total 8 bays <ul style="list-style-type: none"><li>• 8 front hot-swap 3.5" SAS/SATA drive bays</li></ul> M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 2280/22110)                                                         |
| Expansion Slots          | Default <ul style="list-style-type: none"><li>• 1 PCIe 4.0 x4 LP slot</li><li>• 2 PCIe 5.0 x16 LP slots</li></ul>                                                                                                              |
| On-Board Devices         | SATA: SATA (6Gbps) ; RAID 0/1 support<br>NVMe: NVMe; RAID 0/1 support(Native)<br>Chipset: AMD B650<br>Network Connectivity: 1 RJ45 1GbE with Realtek RTL8211F PHY (dedicated IPMI)<br>2 RJ45 1GbE with Intel® I210-AT          |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 3 Type-A ports(Rear)<br>2 Type-C ports(Rear)<br>1 Type-C port(Rear)<br>Video: 1 VGA port<br>1 DisplayPort 1.4 port<br>1 HDMI 2 port<br>Audio: Rear Audio<br>TPM: 1 TPM header |

(Front View – System)



| Drive Bay | Description                         |
|-----------|-------------------------------------|
| 1 – 10    | 8 Hot-swap 3.5" SAS/SATA Drive Bays |

(Rear View – System)



| Slot | Slot Description |
|------|------------------|
| 1    | PCIe 4.0 x4      |
| 2    | PCIe 5.0 x16     |

System Cooling

Fans: 3x 80mm Fan(s)  
Air Shroud: 1 Air Shroud

Power Supply

2x 800W Redundant (1 + 1) Titanium Level (96%) power supplies

System BIOS

BIOS Type: AMI 32MB SPI Flash

Management

SuperCloud Composer®; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!

PC Health Monitoring

FAN: Status monitor for speed control  
Voltage:  
+1.0V PCH, +1.8V PCH, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 3.3V standby, 5 (4-pin), CPU, CPU temperature, CPU thermal trip support, PCH temperature, System temperature, VBAT, VRM  
Other Features:  
8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor  
Temperature: CPU thermal trip support, Monitoring for CPU and chassis environment, PECI

Dimensions and Weight

Weight: Gross Weight: 52 lbs (23.59 kg)  
Net Weight: 37 lbs (16.78 kg)  
Available Color: Black

Operating Environment

Operating Temperature: 10°C to 35°C (50°F to 95°F)  
Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)  
Operating Relative Humidity: 8% to 90% (non-condensing)  
Non-operating Relative Humidity: 5% to 95% (non-condensing)

Motherboard

[Super H13SAE-MF](#)

Chassis

[CSE-825TQC-R802LPB](#)

Standard Parts (Parts Included)

|                       |                                                                                                           |                                             |                                                        |                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|
| Motherboard / Chassis |                                                                                                           |                                             |                                                        |                                                       |
| Part Number           | MBD-H13SAE-MF                                                                                             | CSE-825TQC-R802LPB                          |                                                        |                                                       |
| Qty                   | 1                                                                                                         | 1                                           |                                                        |                                                       |
| Description           | Super H13SAE-MF Motherboard                                                                               | 2U Chassis                                  |                                                        |                                                       |
| Backplane             |                                                                                                           |                                             |                                                        |                                                       |
| Part Number           | BPN-SAS3-825TQ                                                                                            |                                             |                                                        |                                                       |
| Qty                   | 1                                                                                                         |                                             |                                                        |                                                       |
| Description           | 2U 8-Slot 12G Backplane for 8x3.5" SAS/SATA HDD/SSD                                                       |                                             |                                                        |                                                       |
| Cable                 |                                                                                                           |                                             |                                                        |                                                       |
| Part Number           | CBL-0186L                                                                                                 | CBL-0071L                                   | CBL-PWCD-0160-IS                                       | CBL-PWEX-1078                                         |
| Qty                   | 1                                                                                                         | 1                                           | 2                                                      | 3                                                     |
| Description           | 4x 7pin SATA (STR to RA), 56/45.5/35/23cm,PBF                                                             | ROUND 16 TO 16 PIN RIBBON FP CABLE 30"L, LF | PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH | PWEX,FAN,1X4/P2.5 TO 1X4/P2.54,20CM,22AWG,5A/PIN,RoHS |
| Parts                 |                                                                                                           |                                             |                                                        |                                                       |
| Part Number           | MCP-260-00185-0B                                                                                          |                                             |                                                        |                                                       |
| Qty                   | 1                                                                                                         |                                             |                                                        |                                                       |
| Description           | STD I/O Shield for H13SAE-MF with EMI Gasket & Black Mylar                                                |                                             |                                                        |                                                       |
| Software              |                                                                                                           |                                             |                                                        |                                                       |
| Part Number           | SFT-OOB-LIC                                                                                               |                                             |                                                        |                                                       |
| Qty                   | 1                                                                                                         |                                             |                                                        |                                                       |
| Description           | License key for enabling OOB BIOS management                                                              |                                             |                                                        |                                                       |
| Heatsink / Retention  |                                                                                                           |                                             |                                                        |                                                       |
| Part Number           | SNK-P0094AP4                                                                                              |                                             |                                                        |                                                       |
| Qty                   | 1                                                                                                         |                                             |                                                        |                                                       |
| Description           | 2U Active CPU Heat Sink for AMD Socket AM5 Systems                                                        |                                             |                                                        |                                                       |
| *Power Supply         |                                                                                                           |                                             |                                                        |                                                       |
| Part Number           | PWS-802A-1R                                                                                               |                                             |                                                        |                                                       |
| Qty                   | 2                                                                                                         |                                             |                                                        |                                                       |
| Description           | 1U 800W 100-240Vac/47-63Hz, and DC240 input                                                               |                                             |                                                        |                                                       |
| *Power Distributor    |                                                                                                           |                                             |                                                        |                                                       |
| Part Number           | PDB-PT825-8824                                                                                            |                                             |                                                        |                                                       |
| Qty                   | 1                                                                                                         |                                             |                                                        |                                                       |
| Description           | SC825 24PIN REDUNDANT POWER DISTRIBUTOR                                                                   |                                             |                                                        |                                                       |
| *Fan                  |                                                                                                           |                                             |                                                        |                                                       |
| Part Number           | FAN-0181L4                                                                                                |                                             |                                                        |                                                       |
| Qty                   | 3                                                                                                         |                                             |                                                        |                                                       |
| Description           | 80x80x38 mm, 9.4K RPM, Hot-swappable Middle Cooling Fan for X11 Purley Platform Newly Enabled 2U+ Chassis |                                             |                                                        |                                                       |
| *Front Panel          |                                                                                                           |                                             |                                                        |                                                       |
| Part Number           | FPB-FP836-D                                                                                               |                                             |                                                        |                                                       |
| Qty                   | 1                                                                                                         |                                             |                                                        |                                                       |
| Description           | Front control board Dual color LED(FP836-D)forSC823M,825,825                                              |                                             |                                                        |                                                       |
| *Drive Tray(s)        |                                                                                                           |                                             |                                                        |                                                       |
| Part Number           | MCP-220-00023-01                                                                                          | MCP-220-00075-0B                            | MCP-220-82502-0B                                       |                                                       |
| Qty                   | 1                                                                                                         | 8                                           | 2                                                      |                                                       |
| Description           | Black USB dummy tray support 1x 2.5" slim HDD for SC825, 836                                              | Black gen 5.5 hot-swap 3.5" HDD tray        | Black fixed 3.5\ " HDD tray or FDD dummy tray          |                                                       |
| *Rear Window          |                                                                                                           |                                             |                                                        |                                                       |
| Part Number           | MCP-240-82506-0N                                                                                          |                                             |                                                        |                                                       |
| Qty                   | 1                                                                                                         |                                             |                                                        |                                                       |
| Description           | LP Rear Window for SC825,825M,826,213,216                                                                 |                                             |                                                        |                                                       |
| *Peripheral Drive     |                                                                                                           |                                             |                                                        |                                                       |
| Part Number           | MCP-290-00007-01                                                                                          |                                             |                                                        |                                                       |
| Qty                   | 1                                                                                                         |                                             |                                                        |                                                       |

|             |                                                            |                                                   |
|-------------|------------------------------------------------------------|---------------------------------------------------|
| Description | Black DVD dummy cover for SC825, 836                       |                                                   |
| *Rail Set   |                                                            |                                                   |
| Part Number | MCP-290-00053-0N                                           | MCP-290-00060-0N                                  |
| Qty         | 1                                                          | 1                                                 |
| Description | Rail set, quick/quick, default for 2,3U 17.2"W             | Threaded rail adapter default for round hole rack |
| *Air Shroud |                                                            |                                                   |
| Part Number | MCP-310-29001-0N                                           |                                                   |
| Qty         | 1                                                          |                                                   |
| Description | SC825/826/216/213 Intel DP X9,X8 air shroud 13.68x13/12x13 |                                                   |

Notes:

- 1. Parts with \* are inside the chassis
- 2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

Optional Parts List

|                 |                                                                                                                                                 |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.5" Drive Tray |                                                                                                                                                 |
| Part Number     | MCP-220-00043-0N • <a href="https://store.supermicro.com/mcp-220-00043-0n.html">eStore (https://store.supermicro.com/mcp-220-00043-0n.html)</a> |
| Qty             | 8                                                                                                                                               |
| Description     | Black hot-swap gen 4 3.5 to 2.5 HDD tray                                                                                                        |
| TPM             |                                                                                                                                                 |
| Part Number     | AOM-TPM-9670V                                                                                                                                   |
| Qty             | 1                                                                                                                                               |
| Description     | SPI TPM 2.0                                                                                                                                     |

Certain products may not be available in your region

Global SKU (/de/products/SMC\_global\_skus)