A+ H13 EPYC Products

Supermicro Server Department

GrandTwin

AS –2115GT-HNTR (Rear IO)

Product Kick Off

Front

Rear

Product Specifications

Processor	• Single AMD Genoa SP5 processors up to 400W per node*
Memory	• 12x DIMM slots, DDR5-5200memory per node
NIC	• Up to 2 AIOM/OCP 3.0 Slot w/NCSI per node*
Storage	• Optional 2 /4 / 6 NVMe or SATA support* per node •2 M.2 NVMe/SATA 80mm slots (for Boot) per node
USB	• 2 Rear USB Port (shared via KVM switch)
BMC	• ASPEED AST2600
Video	• 1 VGA port (shared via KVM switch)
Remote Management	• 1 BMC GbE LAN Port per node
Security	• TPM 2.0 • HW Root of Trust
Power Supply	• 2200W Redundant Titanium Level Power Supply*
Chassis	• CSE-GT214

Design Features (Per Node)

- Configurable up to 6 2.5" Drive Bays supporting NVMe or SATA
- Front accessible nodes for easy maintenance
- Flexible networking options with AIOM / OCP 3.0 support
- 2 M.2 slots on motherboard

Q3'21			Q4'21			Q1'22			Q2'22			Q3'22		
July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept
			Development				EVT		DVT				MP	

[1]High wattage TDP CPU air-cooled support is limited to specific configurations
[2]Optional parts required for NVMe/SATA configurations
[3] AIOM is sold separately but required for complete system configuration.
[4]Full redundancy base on configuration and application load

AS –2115GT-FHNTR (Front IO) TBD

Front

Rear

Product Specifications

Processor	• Single AMD Genoa SP5 processors up to 400W per node*
Memory	• 12x DIMM slots, DDR5-5200memory
NIC	• Up to 1 AIOM/OCP 3.0 in front bay, and GrandTwin I/O module for 1G, 25G, or 100G options*, per node
Storage	• Optional 2/4 NVMe or SATA support* per node •2 M.2 NVMe/SATA 80mm slots (for Boot) per node
USB	• 2 front USB Port per node from GrandTwin I/O module
BMC	• ASPEED AST2600
Video	• 1 front VGA port per node from GrandTwin I/O module
Remote Management	• 1 front BMC GbE LAN Port per node from GrandTwin I/O module
Security	• TPM 2.0 • HW Root of Trust
Power Supply	• 2200W Redundant Titanium Level Power Supply*
Chassis	• CSE-GT214

Possible system configurations:

2.5" Drive	AIOM	GrandTwin I/O
2.5" Drive	Venting	

2.5" Drive	2.5" Drive	GrandTwin I/O
2.5" Drive	2.5" Drive	

[1]High wattage TDP CPU air-cooled support is limited to specific configurations
[2]Optional parts required for NVMe/SATA configurations
[3] GrandTwin I/O is sold separately but required for complete system configuration.
[4]Full redundancy base on configuration and application load

H13SST-G/GC

Key Features:

- ✓ Single EPYC Processor (GENOA, AMD Socket SP5), SoC
- ✓ Up to 96 cores / 192 threads, 2U 4-Node.
- ✓ 12 DIMM, 3TB Reg. ECC DDR5 up to 5200MHz
- ✓ 2 PCI-E 5.0 x16 Impelplus connector for 4x AIOM (Rear I/O system SKU)
- ✓ 5 PCI-E 5.0 x8 MCIO connector (1 hybrid port from P0)
- ✓ 1 PCI-E 5.0 x8 slot GrandTwin I/O (Front I/O system SKU)
- ✓ 2 M.2 connector (PCI-E 5.0 x4)
- ✓ 8x SATA 3.0 Port from MCIO hybrid port (-G SKU) and 8x SAS3 ports via onboard LSI3808 (-GC SKU – project based)
- ✓ NCSI Support for AIOM
- ✓ AST2600 with RoT function Support
- ✓ Proprietary Form Factor (9.07" x 12.42")
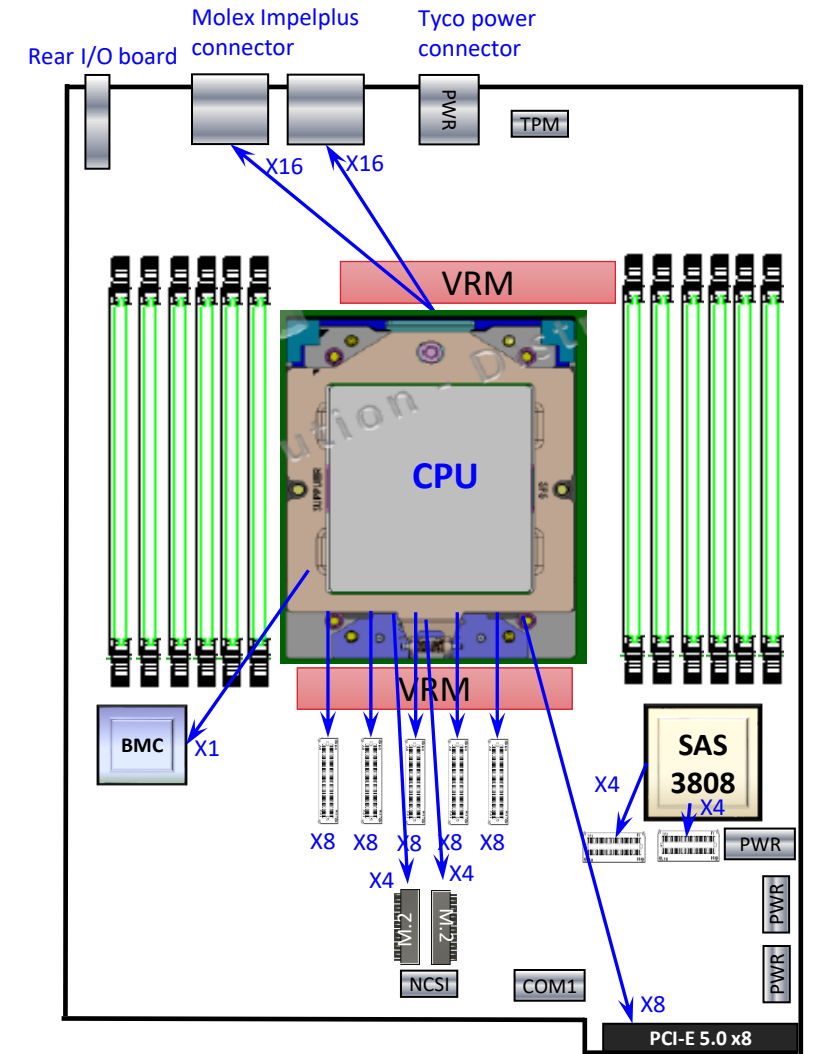
A+ H13 EPYC Products

Supermicro Server Department

Hyper

H13DSH

Key Features:

- ✓ Dual AMD EPYC™ processor (GENOA, AMD Socket SP5), SoC.
- ✓ Up to 192 cores / 384 threads , Max. 400W
- ✓ 24 DIMM, 6TB Reg. ECC DDR5 up to 5200MHz
- ✓ Expansion slots: SXB1, SXB2
- ✓ 14x MCIO (PCIe 5.0 x8) vertical connectors
- ✓ 8x NVMe (PCIe 5.0 x8) / 32x SATA3 Hybrid via MCIO
- ✓ 2x Gen3 NVMe M.2 (22110)
- ✓ AIOM with NCSI Support
- ✓ Network controllers: Provided via AIOM card
- ✓ 4x USB 3.0 (2 rear via riser + 2 via header), 1 x TPM 2.0 header
- ✓ Proprietary Form Factor (17" x 11.5")
- ✓ Aspeed 2600 with RoT support

Status:

- ✓ TBD
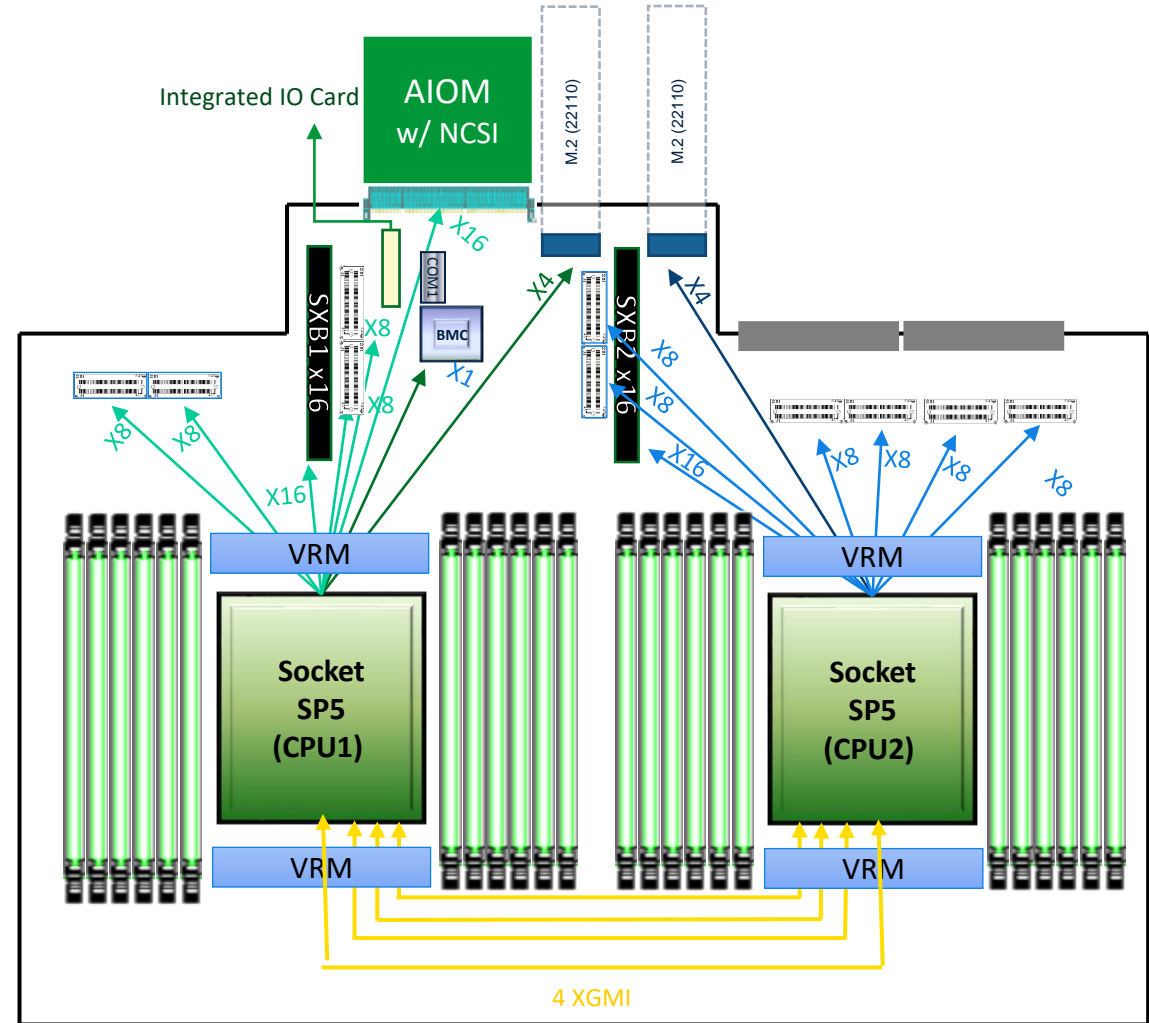
H13 DP Hyper Server Solutions

AS -1125HS-TNR
Dual socket

Density Optimized Solutions

AS -2125HS-TNR
Dual socket

AS -2025HS-TNR
Dual socket

Storage Optimized Solutions

- Up to 24 HDD Solution combine NVME/SATA /SAS
-- 24 DIMM DDR 5

- Up to 12 HDD NVMe/SATA or SAS
- Up to 4 PCI-E 5.0 x16 Slots or up to 8 PCI-E 5.0 x8 Slots
- 24 DIMM DDR 5

Subject to change without notice

1U DP Hyper Server AS -1125HS-TNR

SUPERMICRO

Product Specifications

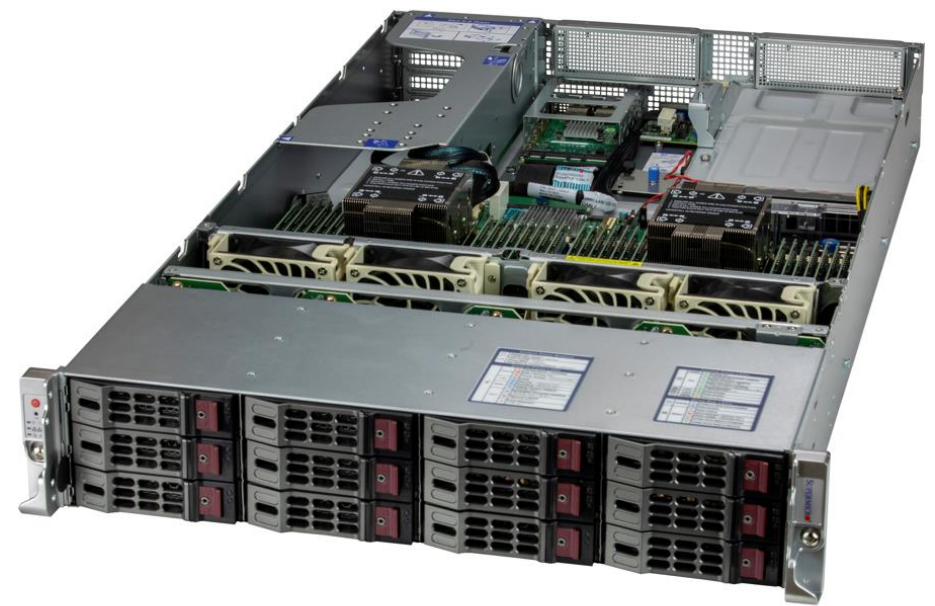|	
Processor	• Dual AMD Genoa SP5 processors up to 400W
Memory	• 24 x DIMM slots, DDR5 -5200 memory support up to 6 TB
PCI-E Slots	• 3 PCI-E 5.0 x16 Slots
NIC	• 1 AIOM/OCP NIC 3.0 Slot
Storage	• 8 Hot-swap 2.5" NVMe/SAS/SATA[2] (Option for up to 12 drives) • 2 M.2 NVMe 80mm/110mm (Boot)
USB	• 2 USB
BMC	• ASPEED AST2600
Video	• 1 VGA Port
Remote Management	• 1 BMC GbE LAN Port
Security	• TPM 2.0 • HW Root of Trust
Power Supply	• 1200W Redundant Power Supplies (Titanium Level) Optional Configuration: • 1600W Redundant Power Supplies (Titanium Level) (Full redundancy based on configuration and application load)
Chassis	• 1U (17.2" x 29.52")

Subject to change without notice

Hight Wattage TDP CPU air-cooled support is limited to specific configurations
[2]Optional parts required for NVMe/SAS/SATA configurations
Photo as a reference during Development Stage

Design Features

- **Configurable capable support up to 12 2.5" Drive Bays NVMe/SAS/SATA (require optional kit)**
- **Flexible networking options with AIOM / OCP NIC 3.0 support**
- **3 PCI-E 5.0 x16 slots**
- **Best-in-class serviceability features – Tool-less chassis/board design**
- **29.52" (749.81mm) chassis depth**
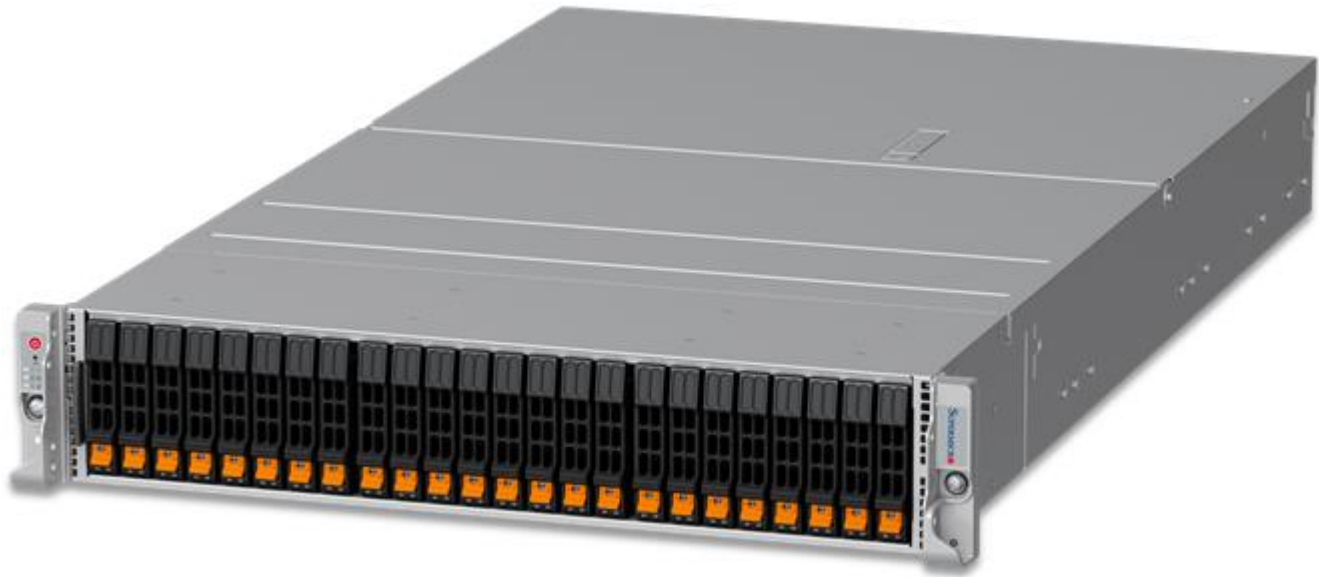
AS -2025HS-TNR

Product Specifications

Processor	• Dual AMD Genoa SP5 processors up to 400W
Memory	• 24 x DIMM slots, DDR5 -5200 memory support up to 6 TB
PCI-E Slots	• 2 PCI-E 5.0 x16 Slots as default or • Configuration Options for up to 8 PCI-E 5.0 x8 Slots (or) • Configuration Options for up to 2 PCI-E 5.0 x16 Slots + 4 PCI-E 5.0 x8 Slots (or) • Configuration Options for up to 3 PCI-E 5.0 x 16 Slots + 2 PCI-E 5.0 x8 Slots
NIC	• 1 AIOM/OCP NIC 3.0 Slots
Storage	• 12 Hot-swap 3.5" NVMe/SAS/SATA[2] • 2 M.2 NVMe/SATA 80mm/110mm (Boot)
USB	• 2 USB
Video	• 1 VGA Port
BMC	• ASPEED AST2600
Remote Management	• 1 BMC GbE LAN Port
Security	• TPM 2.0 • HW Root of Trust
Power Supply	• 1600W Redundant Power Supplies (Titanium Level) • Optional Configuration: 1200W/2000W/2600W Redundant Power Supplies (Titanium Level) (Full redundancy based on configuration and application load)
Chassis	• 2U (17.2" x 31.24")

Subject to change without notice

Hight Wattage TDP CPU air-cooled support is limited to specific configurations
[2]Optional parts required for NVMe/SAS/SATA configurations
[3]GPU support is limited to specific configurations
Photo as a reference during Development Stage

Design Features

- **12 3.5" Drive Bays supporting NVMe/SAS/SATA (optional kit)**
- **Up to 8 PCI-E 5.0 expansion slots with 2 Double-width GPU/FPGA support[3]**
- **2 Supermicro AIOM networking slots (OCP NIC 3.0 compatible)**
- **Tool-less chassis & board design to simply the maintenance experience**

AS -2125HS-TNR

SUPERMICRO

Product Specifications

Processor	• Dual AMD Genoa SP5 processors up to 400W
Memory	• 24 x DIMM slots, DDR5 -5200 memory support up to 6 TB
PCI-E Slots	• Configuration Options for up to 1 PCI-E 5.0 x16 + 2 PCI-E 5.0 x8 Slots with 24 Nvme drives
NIC	• 1 AIOM/OCP NIC 3.0 Slots with up to 2 AIOM/OCP with additional kits
Storage	• 24 Hot-swap 2.5" NVMe/SATA[2] as default. • 2 M.2 NVMe/SATA 80mm/110mm (Boot)
USB	• 2 USB
Video	• 1 VGA Port
BMC	• ASPEED AST2600
Remote Management	• 1 BMC GbE LAN Port
Security	• TPM 2.0 • HW Root of Trust
Power Supply	• 1600W Redundant Power Supplies (Titanium Level) • Optional Configuration: 2000W/2600W Redundant Power Supplies (Titanium Level) (Full redundancy based on configuration and application load)
Chassis	• 2U (17.2" x 29.9")

Design Features

- **Up to 24 2.5" Drive Bays supporting NVMe/SAS/SATA[2]**
- **Up to 2 PCI-E 5.0 x16 expansion slots with 2 Double-width GPU/FPGA support[3]**
- **2 Supermicro AIOM networking slots (OCP NIC 3.0 compatible)**
- **Tool-less chassis & board design to simply the maintenance experience**

Subject to change without notice

Hight Wattage TDP CPU air-cooled support is limited to specific configurations
[2]Optional parts required for NVMe/SAS/SATA configurations
[3]GPU support is limited to specific configurations
Photo as a reference during Development Stag

A+ H13 EPYC Products

Supermicro Server Department

CloudDC

Key Features:

- ✓ Single EPYC Processor (GENOA, AMD Socket SP5), SoC
- ✓ Up to 96 cores / 192 threads, Max. 400W
- ✓ 12 DIMM, 3TB Reg. ECC DDR5 up to 5200MHz
- ✓ AST2600 with RoT function support
- ✓ 1x PCIe 5.0 x16 left riser slot; 1x PCIe 5.0 x16 right riser slot
- ✓ 2x PCIe 5.0 x16 AIOM support single NC-SI feature(Left side)
- ✓ 12x NVMe (PCIe 5.0 x4) by MCIO x8
- ✓ 4x NVMe (PCIe 5.0 x4) or 16x SATA hybrid port by MCIO x8
- ✓ Rear 2x USB 3.0(PCIe 5.0 x1 to USB), Front 2x USB2.0
- ✓ Rear IO support 1x IPMI Dedicated LAN, 1x VGA and 1x COM port
- ✓ Proprietary Form Factor (13.4" x 12.29")
- ✓ AST2600 with RoT function Support
- ✓ Support FP1, FP2 connector

Status:

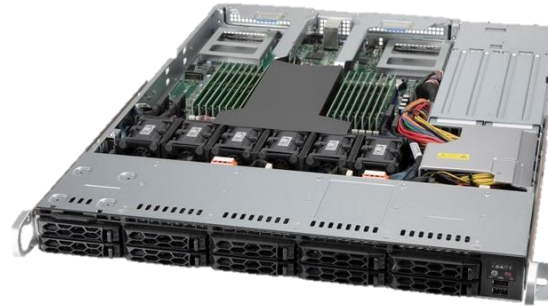- ✓ TBD
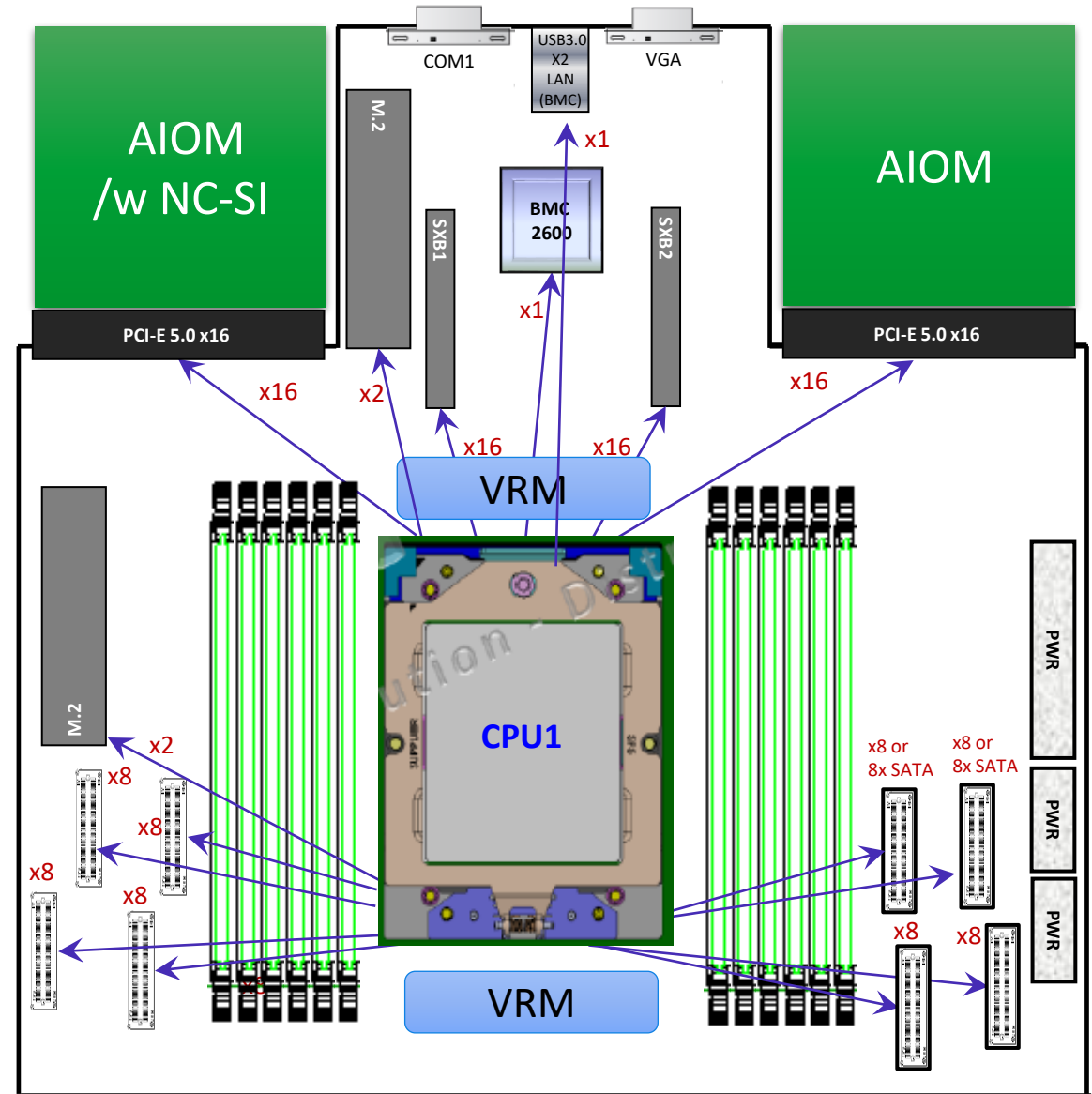
UP CloudDC H13 Solution

Optimized Economical IO & Storage Solutions

AS -2015CS-TNR

Single socket

- Up to 12 HDD NVMe/SATA or SAS
- Up to 4 PCI-E 5.0 x16 & 2 AIOM NIC slot
- 12 DIMM in UP support DDR5

AS -1115CS-TNR

Single socket

- Up to 10 HDD NVMe/SATA or SAS
- Up to 3 PCI-E 5.0 x16 & 2 AIOM NIC slot
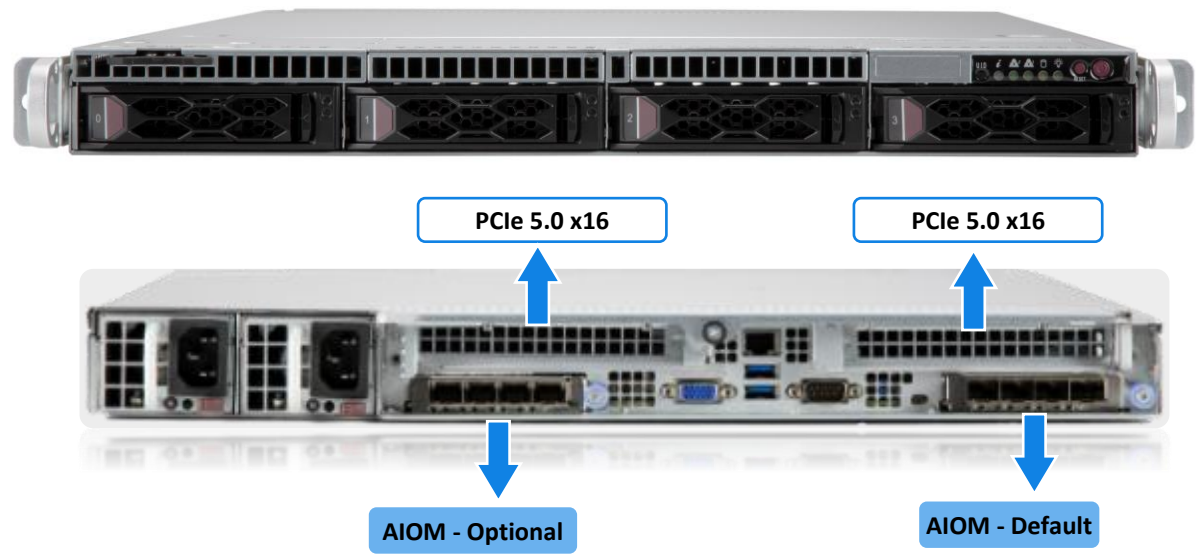- 12 DIMM in UP support DDR5

AS -1015CS-TNR

(Under Development)
Single socket

- Up to 4 3.5" Drive Bays supporting NVMe/SATA hybrid mode
- AIOM / OCP NIC 3.0 support
- 2 PCI-E 5.0 x16 slots

Subject to change without notice

AS -1015CS-TNR(Under Development)

PCIe 5.0 x16

PCIe 5.0 x16

AIOM - Optional

AIOM - Default

Product Specifications

Processor	• Single AMD Genoa SP5 processors up to TDP 400W
Memory	• 12 x DIMM slots, DDR5-5200memory
PCI-E Slots	• 2 PCI-E 5.0 x16 (FHHL) slots
NIC	• 2 AIOM/OCP NIC 3.0 Slot
Storage	• 4 Hot-swap 3.5" NVMe/SAS/SATA[2] • 2 M.2 NVMe/SATA 80mm/110mm (Boot)
BMC	• ASPEED AST2600
Video	• 1 VGA Port
Remote Management	• 1 BMC GbE LAN Port
Security	• TPM 2.0 • HW Root of Trust
Power Supply	•860W Redundant Platinum Level Power Supply (Full redundancy based on configuration and application load)
Chassis	• 1U (17.2" x 23.5")

Design Features

- **Configurable up to 4 3.5" Drive Bays supporting NVMe/SATA hybrid mode**
- **Flexible networking options with AIOM / OCP NIC 3.0 support**
- **2 PCI-E 5.0 x16 slots**
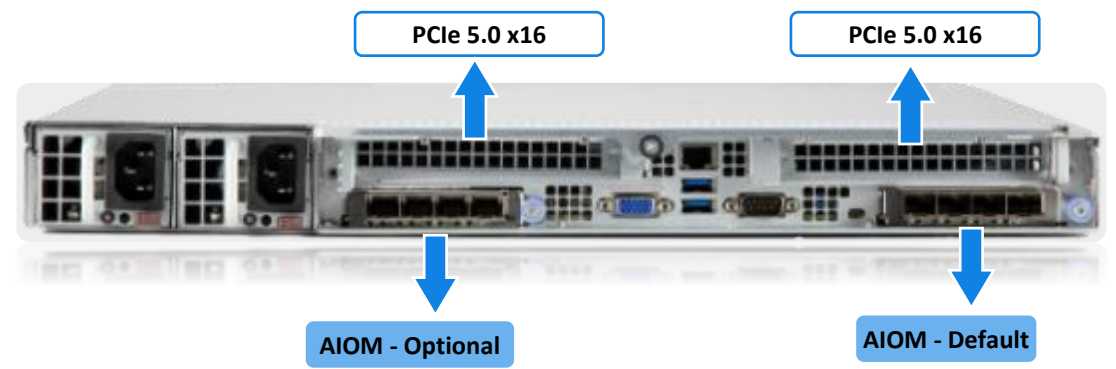- **Best-in-class serviceability features – Tool-less chassis design**

[1]280W TDP CPU & Up air-cooled support is limited to specific configurations
[2]Optional parts required for NVMe/SAS/SATA configurations
[3]GPU support is limited to specific configurations

AS -1115CS-TNR

PCIe 5.0 x16

PCIe 5.0 x16

AIOM - Optional

AIOM - Default

Product Specifications

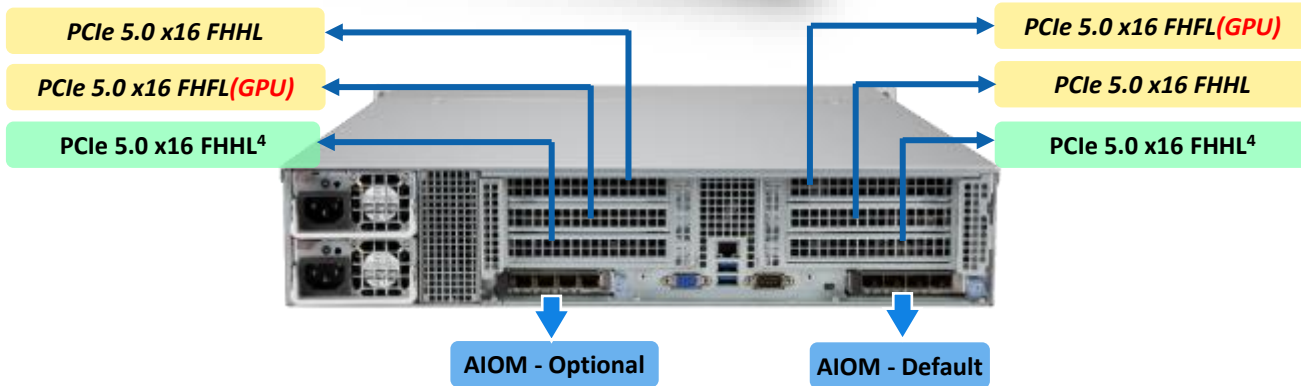|	
Processor	• Single AMD Genoa SP5 processors up to TDP 400W
Memory	• 12 x DIMM slots, DDR5-5200memory
PCI-E Slots	• 2 PCI-E 5.0 x16 (FHHL) slots
NIC	• 2 AIOM/OCP NIC 3.0 Slot
Storage	• 10 Hot-swap 2.5" NVMe/SAS/SATA • 2 M.2 NVMe/SATA 80mm/110mm (Boot)
USB	• 4 USB (2 Front USB, 2 Rear USB)
BMC	• ASPEED AST2600
Video	• 1 VGA Port
Remote Management	• 1 BMC GbE LAN Port
Security	• TPM 2.0 • HW Root of Trust
Power Supply	• 860W Redundant Platinum Level Power Supply (Full redundancy based on configuration and application load)
Chassis	• 1U (17.2" x 23.5")

Design Features

- **Configurable up to 10 2.5" Drive Bays supporting NVMe/SAS/SATA[2]**
- **Flexible networking options with AIOM / OCP NIC 3.0 support**
- **2 PCI-E 5.0 x16 slots.**
- **Best-in-class serviceability features – Tool-less chassis design**
- **23.5" (5971mm) chassis depth**

[1]280W TDP CPU & Up air-cooled support is limited to specific configurations
[2]Optional parts required for NVMe/SAS/SATA configurations
[3]GPU support is limited to specific configurations

AS -2015CS-TNR

Product Specifications

Processor	• Single AMD Genoa SP5 processors up to TDP 400W
Memory	• 12 x DIMM slots, DDR5-4800 memory
PCI-E Slots	• 4 PCIe Gen 5.0 x16 (Capable convert to 2 PCI-E 5.0 x16 ,4 PCI-E 5.0 x8)
NIC	• 2 AIOM/OCP NIC 3.0 Slot
Storage	• 12 Hot-swap 3.5" NVMe/SAS/SATA[2] • 2 M.2 NVMe/SATA 80mm/110mm (Boot)
BMC	• ASPEED AST2600
Video	• 1 VGA Port
Remote Management	• 1 BMC GbE LAN Port
Security	• TPM 2.0 • HW Root of Trust
Power Supply	•1200W Redundant Titanium Level Power Supply (Full redundancy based on configuration and application load)
Chassis	• 2U (17.2" x 25.5"")

PCIe 5.0 x16 FHHL

PCIe 5.0 x16 FHFL*(GPU)*

PCIe 5.0 x16 FHHL[4]

PCIe 5.0 x16 FHFL*(GPU)*

PCIe 5.0 x16 FHHL

PCIe 5.0 x16 FHHL[4]

AIOM - Optional

AIOM - Default

Design Features

- **Configurable up to 12 3.5" Drive Bays supporting NVMe/SAS/SATA[2]**
- **Flexible networking options with AIOM / OCP NIC 3.0 support**
- **4 PCIe 5.0 x16 slots with support up to two double-width GPU**
- **Best-in-class serviceability – Tool-less chassis design with Tool-Less HDD trays**
- **25.5" (648mm) chassis depth**

[1]280W TDP CPU & Up air-cooled support is limited to specific configurations
[2]Optional parts required for NVMe/SAS/SATA configurations
[3]GPU support is limited to specific configurations
[4]Some feature will not be available with enable this PCIe slots

A+ H13 EPYC Products

Supermicro Server Department
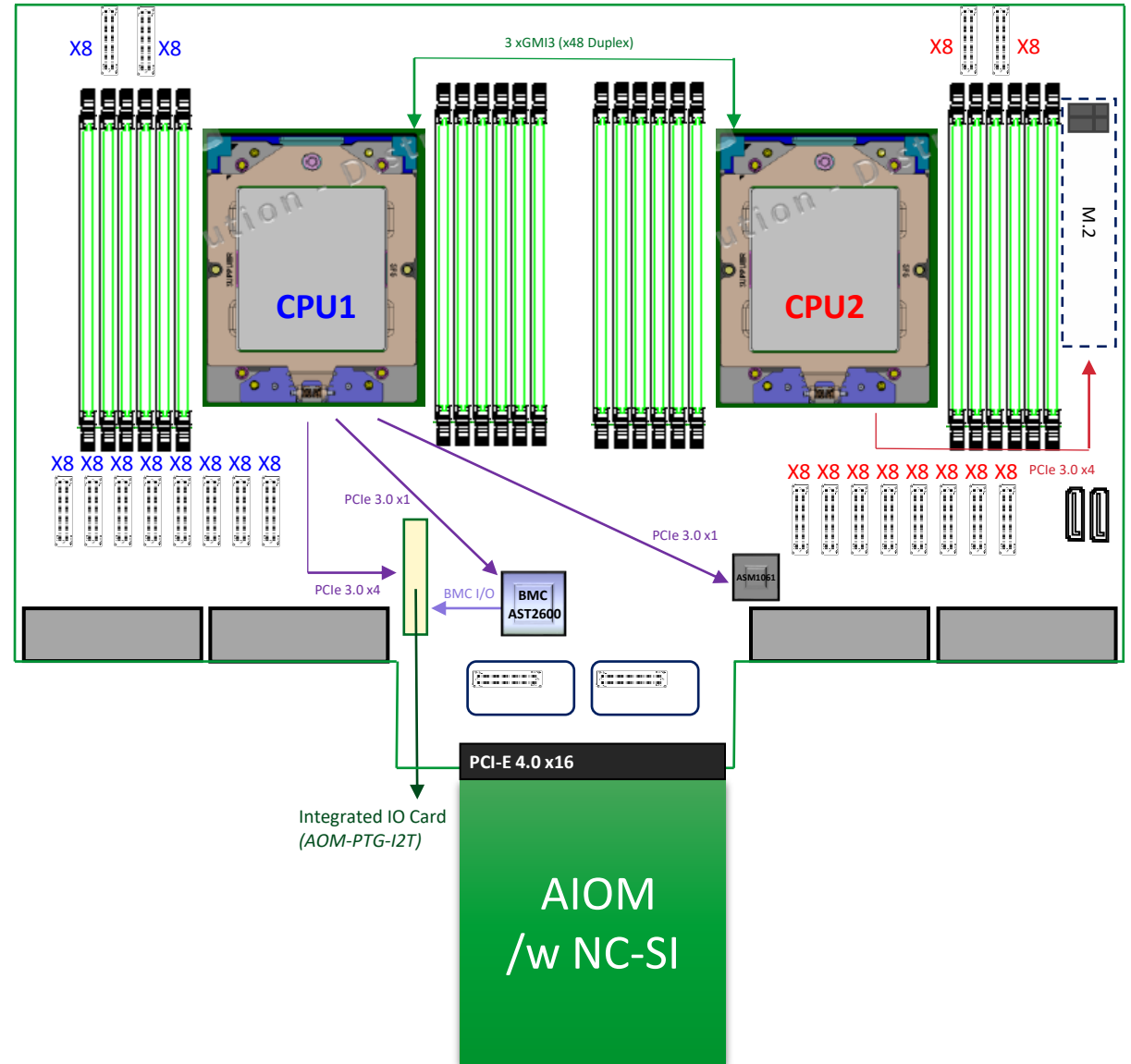
GPU

H13DSG-O-CPU

Key Features:

- ✓ Dual EPYC Processor (GENOA, AMD Socket SP5), SoC
- ✓ Up to 192 cores / 384 threads (Max. 400W)
- ✓ 24 DIMMs, 6TB Reg. ECC DDR5 up to 5200MHz
- ✓ 128-Lane PCI-E 5.0 x8 MCIO interfaces to GPU baseboard
- ✓ 32-Lane PCI-E 5.0 x8 MCIO interfaces for GPU baseboard, NVMe or OCP NIC
  - • Up to 4x NVMe(x4) ports
  - • OCP 3.0 NIC slot (AIOM slot) w/ NCSI interface
- ✓ 2 SATA ports via ASM1061, 1 M.2 (PCI-E 3.0 x4) from CPU2
- ✓ 1 USB 2.0 (header), SPI TPM (header), NCSI (header)
- ✓ Integrated IO slot with dual 10GbE, VGA, USB and COM via AOM-PTG-I2T
- ✓ AST2600 with RoT 2.0 function Support
- ✓ 4 Power Supply direct connect interfaces
- ✓ 17" x 14.7" Proprietary Form Factor

Status:

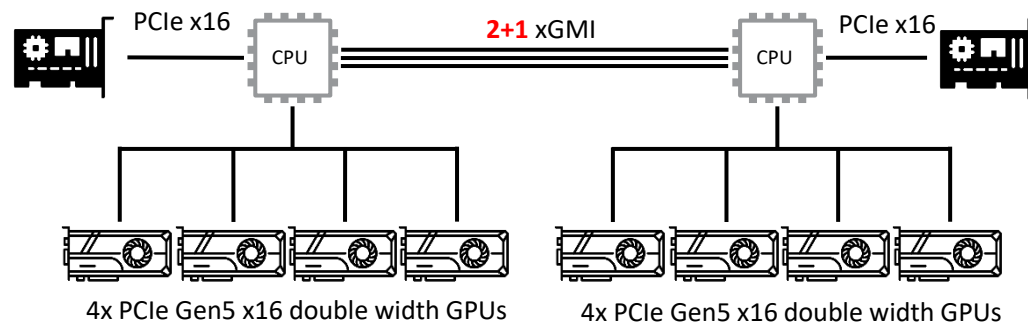- ✓ Sample: WW16'2022
- ✓ Production: WW24'2022

Usage:

- ✓ HPC, AI machine learning, GPU virtualization, Transcoding and VDI
- ✓ Cryptocurrency Mining, Sources of Business Logic, Online Gaming,
- ✓ Omniverse/Metaverse

4U DP 10 GPU Server AS -4125GS-TNRT

Direct Attached

PCIe x16   **2+1** xGMI   PCIe x16

CPU   CPU

4x PCIe Gen5 x16 double width GPUs   4x PCIe Gen5 x16 double width GPUs

Product Specifications

Processor	• Dual AMD Genoa SP5 processors up to 400W cTDP
Memory	• 24 x DIMM slots, DDR5-5200 memory
PCI-E Slots	8 PCIe x16 Gen5 (GPU slots) 1 PCIe x16 Gen5 or 2 PCIe x8 in x16 slot
NIC	• 2 10GbaseT LAN
Storage	Up to 4 NVMe 2x SATA support 2x M.2 onboard
USB	• 2 USB 3.0
Video	• 1 VGA Port
BMC	• ASPEED AST2600
Remote Management	• 1 BMC GbE LAN Port
Security	• TPM 2.0 • HW Root of Trust
Power Supply	4x 2200W Titanium redundant power supply
Chassis	• 4U

Design Features

- 8 Direct attached GPUs
- PCIe Gen 5.0 AMD Radeon Instinct, Nvidia Enterprise level GPUs
- Flexible Architecture

[1]320W TDP CPU air-cooled support is limited to specific configurations
[2]Optional parts required for NVMe/SAS/SATA configurations
[3]GPU support is limited to specific configurations

4U DP 10 GPU Server AS -4125GS-TNRT3

Single Route

Product Specifications	
Processor	• Dual AMD Genoa SP5 processors up to 400W cTDP
Memory	• 24 x DIMM slots, DDR5-5200 memory
PCI-E Slots	10 PCIe x16 Gen5 Double Width GPUs 1 PCIe x16 Gen5 and 1 PCIe x16 AIOM
NIC	• 2 10GbaseT LAN
Storage	Up to 24 NVMe 4x SATA support 1x M.2 onboard
USB	• 2 USB 3.0
Video	• 1 VGA Port
BMC	• ASPEED AST2600
Remote Management	• 1 BMC GbE LAN Port
Security	• TPM 2.0 • HW Root of Trust
Power Supply	4x 2200W Titanium redundant power supply
Chassis	• 4U

2+1 xGMI   PCIe x16

2 PCIe x16   2 PCIe x16

5x PCIe Gen5 x16 double width GPUs   5x PCIe Gen5 x16 double width GPUs

Design Features

- 10 PCIe Gen5 GPUs on PLX (Gen5)
- PCIe Gen 5.0 AMD Radeon Instinct, Nvidia Enterprise level GPUs
- Flexible Architecture

[1]320W TDP CPU air-cooled support is limited to specific configurations
[2]Optional parts required for NVMe/SAS/SATA configurations
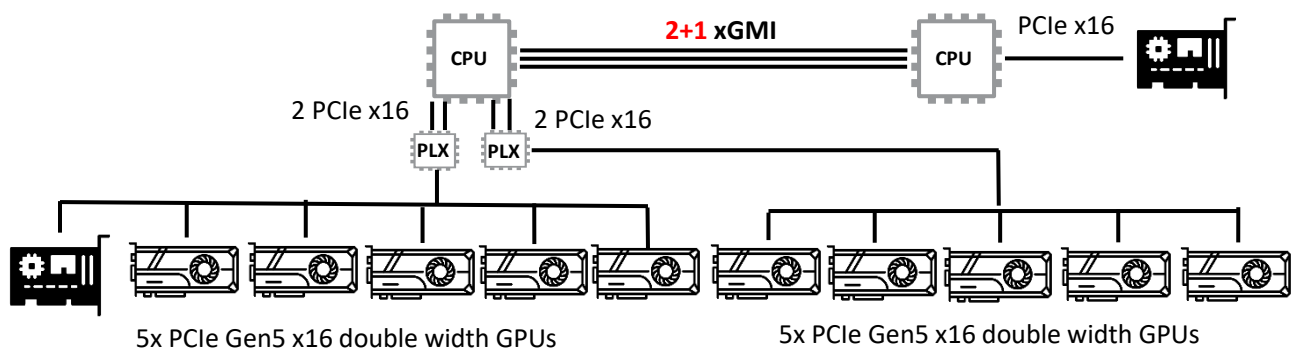[3]GPU support is limited to specific configurations

A+ H12 EPYC Products

Supermicro Server Department

H12

A+ Server Products

DP Ultra 24 NVME

UP WIO 24 NVME

UP FatTwin FIO

UP FatTwin RIO

UP Cloud DC
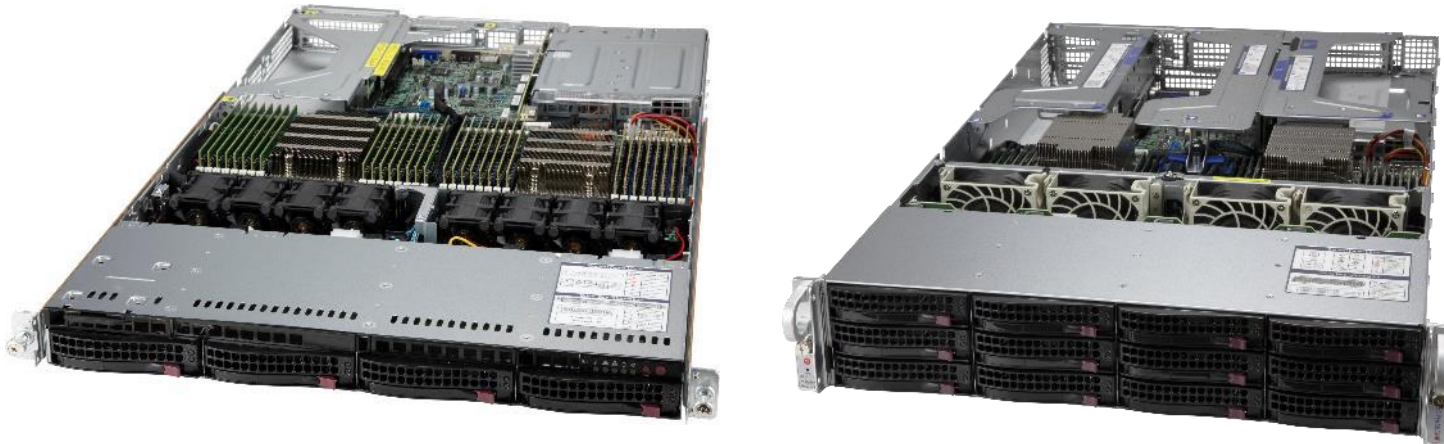

UP 2U 2Nodes GPU

UP Mid Tower

A+ DP Ultra 32 DIMMs 1U/2U Server

AS -1024US-TRT / 2024US-TRT

① Processor Support
Dual EPYC processor (Socket SP3) Up to **128 cores**

② Memory Capacity
32 DIMM, up to 8TB DDR4 3200 MHz Reg. ECC

③ Expansion Slots

1U	2U
2 PCI-E 4.0 x16 (FH/9.5"L) slot	**3 PCI-E 4.0 x16** (FHFL) slot
1 PCI-E 4.0 x16 (LP) slot	**1 PCI-E 4.0 x16** (LP) slot
1 PCI-E 4.0 x16 (internal LP)	**1 PCI-E 4.0 x8** (in x16) slot
	1 PCI-E 4.0 x8 (internal LP)

④ I/O ports
2 10Gbe RJ45 ports, 1 Built-in video
1U: 3 USB 3.0 ports (2 rear; 1 Type A)
2U: 3 USB 3.0 ports (2 rear, 1 Type A)

⑤ System management
Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

⑥ Storage
1U: 4 hot-swap 3.5" SATA bays (Optional SAS3 and U.2 NVMe)
2U: 12 hot-swap 3.5" SATA3 drive bays (Optional SAS3 & SATA3)

⑦ System Cooling
1U: 8x 40x56mm fans w/ Optimal Fan Speed Control
2U: 4x 80x80x38mm fans w/ Optimal Fan Speed Control

⑧ Power Supply
1U: 1000W High-efficiency (Titanium Level) Redundant* PWS
2U: 1600W High-efficiency (Titanium Level) Redundant* PWS

*(Full redundancy based on configuration and application load)

Key Features:

- Dual Socket, 32 DIMMs up to 8TB DDR4 3200Mhz
- 2U 12 SATA & 1U 4 SATA, optional U.2 NVMe support
- PCIe Gen 4.0

A+ DP Ultra 1U/2U NVMe Server

AS -1124US-TNRP / 2124US-TNRP

Specifications

1. Processor Support
Dual EPYC processor (Socket SP3) Up to **128 cores**

2. Memory Capacity
32 DIMM, up to 8TB DDR4 3200 MHz Reg. ECC

3. Expansion Slots

1U	2U
2 PCI-E 4.0 x16 (FH/9.5"L) slot	**1 PCI-E 4.0 x16** slot
1 PCI-E 4.0 x16 (LP) slot	
1 PCI-E 4.0 x16 (internal LP)	

4. I/O ports
2 10Gbe RJ45 ports + 2 SFP+ ports, 1 Built-in video
1U: 4 USB 3.0 ports (2 rear; 1 front + 1 Type A)
2U: 3 USB 3.0 ports (2 rear, 1 Type A)

5. System management
Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

6. Storage

1U: 12 hot-swap 2.5" U.2 NVMe Gen4 drive bays (Thin Profile) (Optional support SAS3 and SATA3 HDD)	2U: 24 hot-swap U.2 NVMe Gen3/Gen4 drive bays (Optional support SAS3 and SATA3 HDD)

7. System Cooling
1U: 8x 40x56mm fans w/ Optimal Fan Speed Control
2U: 4x 80x80x38mm fans w/ Optimal Fan Speed Control

8. Power Supply
1U: 1200W High-efficiency (Titanium Level) Redundant* PWS
2U: 1600W High-efficiency (Titanium Level) Redundant* PWS

(Full redundancy based on configuration and application load)

Key Features:

- Dual Socket, 32 DIMMs up to 8TB DDR4 3200Mhz
- Direct attached U.2 NVMe
- PCIe Gen 4.0

A+ UP WIO 8 DIMM 1U Server

AS -1014S-WTRT / 1114S-WTRT

Specifications

❶ Processor Support
Single EPYC processor (Socket SP3)
Up to 64 cores **TDP 280W**

❷ Memory Capacity
8 DIMM, up to 2TB DDR4 3200 MHz Reg. ECC

❸ Expansion Slots
2 PCI-E 4.0 x16 (FHFL) slots
1 PCI-E 4.0 x16 (LP) slot

❹ I/O ports
2 10Gbe RJ45 ports
1 Built-in video
6 USB 3.1 ports (4 rear; 2 front)

❺ System management
Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

❻ Storage
1014S: 4 hot-swap 3.5" SATA drive bays, (4x NVMe optional)
1114S: 10 hot-swap 2.5" SATA drive bays, (2x NVMe optional)
2 M.2 connector (SATA/NVMe)

❼ System Cooling
4x 40x56mm fans w/ Optimal Fan Speed Control

❽ Power Supply
500W High-efficiency (Platinum Level) Redundant* PWS

(Full redundancy based on configuration and application load)

Key Features:

- Single Socket, 8 DIMMs up to 2TB DDR4 3200Mhz
- Hybrid SATA/U.2 NVMe
- PCIe Gen 4.0
- Supports up to 2 T4 GPUs

A+ UP WIO 16 DIMM 1U/2U NVMe Server

AS -1114S-WN10RT / 2114S-WN24RT

80 PLUS TITANIUM

Specifications

1 **Processor Support**
Single EPYC processors (Socket SP3)Up to 64 cores **TDP 280W**

2 **Memory Capacity**
16 DIMM, up to 4TB DDR4 3200 MHz Reg. ECC

3 **Expansion Slots**

1U	2U
2 PCI-E 4.0 x16 (FHFL) slot	**1 PCI-E 4.0 x16** (FH) slot
1 PCI-E 4.0 x16 (LP) slot	

4 **I/O ports**
2 10Gbe RJ45 ports
1 Built-in Video
6 USB 3.1 ports (4 rear; 2 front)

5 **System management**
Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

6 **Storage**
1U: 10 hot-swap U.2 NVMe drive bays (optional SATA)
2 M.2 Connector (SATA/NVMe)
2U: 24 hot-swap U.2 NVMe drive bays (optional SATA)

7 **System Cooling**
1U: 6 heavy duty fans w/ Optimal Fan Speed Control
2U: 3 heavy duty fans w/ Optimal Fan Speed Control

8 **Power Supply**
1U: 750W High-efficiency (Platinum Level) Redundant* PWS
2U: 1200W (Titanium Level) Redundant* PWS

(Full redundancy based on configuration and application load)

Key Features:

- Single Socket, 16 DIMMs up to 4TB DDR4 3200Mhz
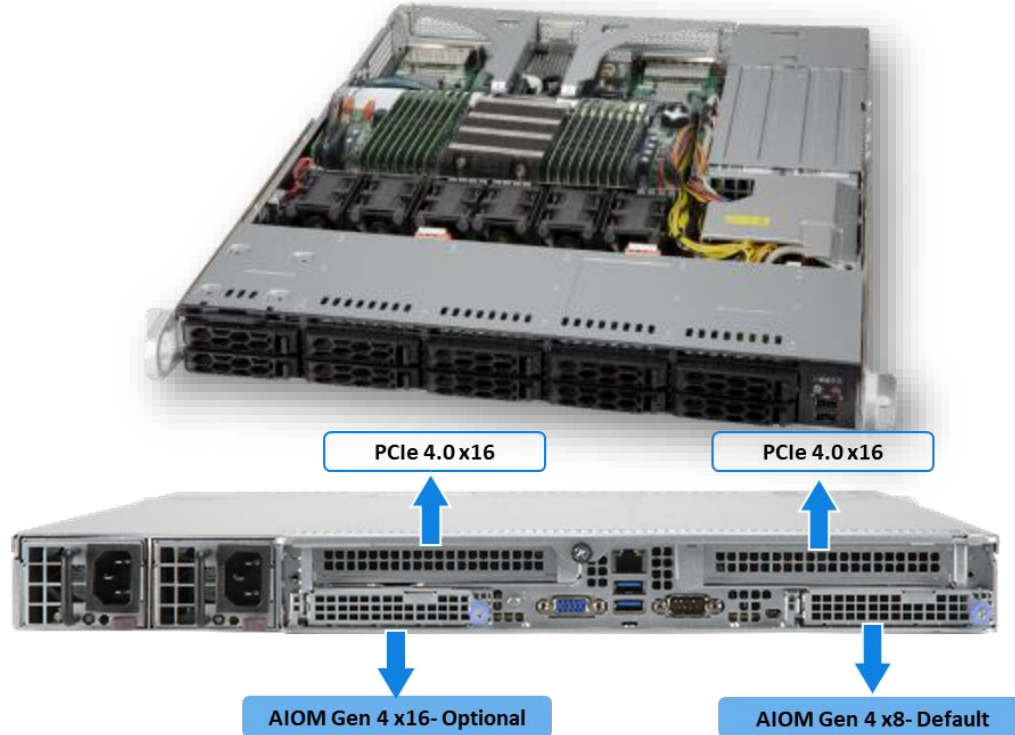- Direct attached U.2 NVMe Gen 4
- PCIe Gen 4.0
- 2 onboard 10Gbe RJ45

nvm EXPRESS

A+ UP Cloud DC 1U Compact Server

AS -1114CS-TNR

80 PLUS TITANIUM

PCIe 4.0 x16   PCIe 4.0 x16

AIOM Gen 4 x16- Optional   AIOM Gen 4 x8- Default

Key Features:

- Support 10 2.5" SATA (optional U.2 NVMe/SAS with additional kits)
- 16 DIMM up to 4 TB ECC DDR4-3200MHz
- 2 PCIe 4.0 x16 with support up to two T4 GPUs
- Flexible Network Via AIOM

Specifications

1. Processor Support
Single EPYC 7002/7003 Series up **to 280W TDP**

2. Memory Capacity
16 DIMMs; up to 4TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM

3. Expansion Slots
2 PCI-E Gen 4.0 x16 (FHHL)
2 PCI-E **AIOM** OCP 3.0 compliant (one x16 and one x8)

4. I/O ports Per Node
1 Built-in video
2 USB 3.0 ports + 2 USB 2.0 front ports
1 IPMI

5. System management
Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port **(ASPEED 2600)**

6. Drive Bays
Up to **10 x 2.5" SATA** drive bays(Optional support SAS3 and U.2 Nvme with additional kits)
2 M.2 connector for NVMe

7. System Cooling
6x 14k RPM fans

8. Power Supply
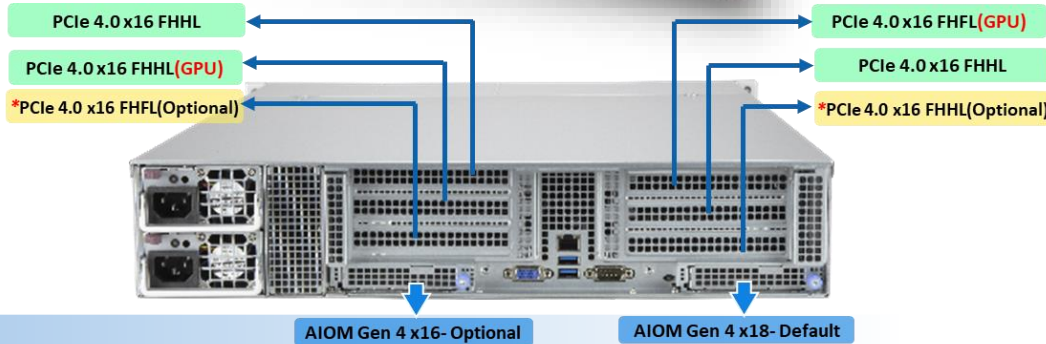860W high-efficiency (Platinum level) power supply

A+ UP Cloud DC 2U I/O optimized server

Specifications

AS -2014CS-TR

80 PLUS TITANIUM

1 **Processor Support**
Single EPYC 7002/7003 Series up to **280W TDP**

2 **Memory Capacity**
16 DIMMs; up to 4TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM

3 **Expansion Slots**
4 PCI-E Gen 4.0 x16
2 PCI-E AIOM OCP 3.0 compliant (one x16 and one x8)

4 **I/O ports Per Node**
1 Built-in video
2 USB 3.0 ports
1 IPMI

5 **System management**
Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port **(ASPEED 2600)**

6 **Drive Bays**
12 hot-swap 3.5" SATA3 drive bays (Optional SAS3 & 4 NVMe with additional kit)
2 M.2 connector for NVMe

7 **System Cooling**
3x 8cm 13.5k RPM fans

8 **Power Supply**
920W high-efficiency (Platinum level) power supply

PCIe 4.0 x16 FHHL

PCIe 4.0 x16 FHHL(GPU)

*PCIe 4.0 x16 FHFL(Optional)

PCIe 4.0 x16 FHFL(GPU)

PCIe 4.0 x16 FHHL

*PCIe 4.0 x16 FHHL(Optional)

AIOM Gen 4 x16- Optional

AIOM Gen 4 x18- Default

Key Features:

- Support 2 FHFL double width GPU
- Support 12 3.5" SATA(optional support up to 4 U.2 NVMe/12 SAS with additional kit)
- PCIe Gen 4.0
- Flexible Network Via AIOM

- *Please contact Technical support for detail*

A+ UP Cost & Energy Efficient Server

AS -2014S-TR

Key Features:

- Support 7 LP AOCs
- Support 12x 3.5" SATA3 at front, 2x Rear 2.5" optional at rear
- PCIe Gen 4.0
- 2x M.2 PCI-E Gen4 x4 onboard

1 Processor Support
Single EPYC 7002/7003 Series up to **280W TDP**

2 Memory Capacity
8 DIMMs; up to 2TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM

3 Expansion Slots
5 **PCI-E Gen 4.0** x16
2 **PCI-E 4.0** x8

4 I/O ports Per Node
2x Gbe RJ45 ports
1x Built-in Video and 1x COM port (rear)
6x USB 3.0 ports (4 rear; 2 via header)

5 System management
Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

6 Drive Bays
Up to 12 x 3.5" hot-swap SATA/SAS drive bays at front
Support 2x 2.5" hot-swap SATA drive bays at rear

7 System Cooling
3x 8cm heavy duty fans w/ Optimal Fan Speed Control

8 Power Supply
920W high-efficiency (Platinum level) power supply

(Full redundancy based on configuration and application load)

Tentative. Can change without notice

A+ 2U Mainstream Server

AS -2024S-TR

Key Features

- **2U Dual socket cost optimized server**
- **6 PCIe Gen4 expansion slots for next generation AOC**
- **AST2600 with RoT support**
- **12x 3.5/2.5" Hot-swap drive bays (up to 8 SATA and 4 NVMe by default)**

Applications

Cloud and Virtualization, Database Processing & Storage, Hosting & Application Delivery

❶ **Processor Support**
Dual AMD 7002/7003 EPYC series CPU up to 240W TDP
Chipset
AMD SP3

❷ **Memory Capacity**
16 DIMM, up to 4TB DDR4 3200 MHz

❸ **Expansion Slots**
3 PCI-e 4.0 x16, 3 PCI-e 4.0 x8, 1 M.2 (PCI-e 4.0 x 4)

❹ **I/O ports**
2x Gbit LAN, 4x USB 3.1 (2 rear + 2 header), 2x USB 2.0, VGA, IPMI, 10x SATA3, 4x NVMe PCI-E 4.0 x 4 ports

❺ **Drive Bays**
12x hot-swap 3.5/2.5" drive bays (up to 8 SATA and 4 NVMe by default)

❻ **System Cooling**
3x 80mm hot-swappable middle cooling fans.

❼ **Power Supply**
Dual 920W Platinum level efficiency power supplies

❽ **Dimensions**
W x H x D: 17.2" (437mm) x 3.5" (89mm) x 25.5" (647mm)

Multi-node Servers

A+ DP BigTwin 2U 4 Nodes

AS -2124BT-HTR / HNTR

① Processor Support Per Node
Dual EPYC 7002/7003 Series processor
HTR: Up to 200W TDP*
HNTR: up to 240W TDP*

② Memory Capacity per node
16x DIMM slots, Up to 4TB DDR4-3200

③ Expansion slots per node
2x PCI-E 4.0 x16 LP slots, 1x **SIOM** slot

④ Networking & I/O per node
1x Flexible networking via SIOM
1x RJ45 Dedicated IPMI LAN port
2x USB 3.0 ports
1x VGA port

⑤ System Management
Built-in Server management tool with dedicated LAN port

⑥ Drive Bays per node
HTR: 6 Hot-swap 2.5" SATA3 drive bays, 1 M.2 connector (SATA/NVMe)
HNTR: 4 Hot-swap 2.5" U.2 Gen3 NVMe/SATA3 drive bays
2 Hot-swap 2.5" SATA3 drive bays (total 6 drive bays per node)
1 M.2 connector (SATA/NVMe) + 1 M.2 connector (NVMe only)

⑦ System Cooling
4x Heavy duty 8cm PWM fans

⑧ Power Supply
2x 2200W High-efficiency (Titanium level, 96%) supplies**

⑨ Dimensions
17.68" (W) x 3.47" (H) x 28.75" (D)

Certain CPUs with high TDP may be supported only under specific conditions.
**Full redundancy based on configuration and application load*

Key Features:

- 4 Hot-Pluggable systems (nodes) in 2U form factor
- Hybrid SATA/U.2 NVMe
- PCIe Gen 4.0
- Flexible Network Via SIOM

80 PLUS TITANIUM

A+ UP TwinPro 2U 4 Nodes

SUPERMICRO

Specifications

AS -2014TP-HTR

80 PLUS TITANIUM

#	Specification
1	**Processor Support Per Node** Single EPYC 7002/7003 Series processor up to **280W TDP***
2	**Memory Capacity per node** 8x DIMM slots, Up to 2TB DDR4-3200
3	**Expansion slots per node** **2x PCI-E 4.0 x16** LP slots **1x SIOM slot**
4	**Networking & I/O – per node** 1x Flexible networking via SIOM 1x RJ45 Dedicated IPMI LAN port 2x USB 3.0 ports 1x VGA port
5	**System Management** Built-in Server management tool with dedicated LAN port
6	**Drive Bays per node** 3 Hot-swap 3.5" SATA3 drive bays 4 M.2 connectors (SATA/NVMe)
7	**System Cooling** 4x Heavy duty 8cm PWM fans
8	**Power Supply** 2x 2000W High-efficiency (Titanium level, 96%) supplies**
9	**Dimensions** 17.25" (W) x 3.47" (H) x 30.5" (D)

*Certain CPUs with high TDP may be supported only under specific conditions.
**Full redundancy based on configuration and application load

Key Features:

- 4 Hot-Pluggable systems (nodes) in 2U form factor
- 3 SATA & 4 M.2 SATA/NVMe
- PCIe Gen 4.0
- Flexible Network Via SIOM

A+ Blade Server 8U 20 nodes

SBA-4119S-C2N / T2N

80 PLUS TITANIUM

Specifications

#		
1	**Processor Support per Node**	Single EPYC processors (socket SP3) Up to 64 cores **280W @ 35C**
2	**Memory Capacity per Node**	8 DIMM, up to 2TB DDR4 3200 MHz Reg. ECC
3	**Expansion Slots per Node**	**1 PCI-E 4.0 x16**
4	**I/O ports and Networking per Node**	Mezzanie (25G / EDR / HDR) 1 Built-in video from BMC 2x Onboard 25G
5	**System management and Security Feature**	Built-in Server management tool (IPMI 2.0, KVM over IP, RedFish, API/TPM 2.0, Signed FW, HW ROT) **(ASPEED 2600)**
6	**Storage per Node**	Up to 2 M.2 Connector T2N: 2x NVMe/SATA C2N: 2x NVMe/SATA/SAS (SAS AOM Module)
7	**System Cooling**	8 heavy duty hot swap External fans
8	**Power Supply**	2200W high-efficiency (Titanium level) Redundant Power Supplies

Key Features:

- Single Socket, 16 DIMMs up to 4TB DDR4 3200MHz
- 8 nodes Front I/O and Front Serviceability
- PCIe Gen 4.0
- Flexible Network Via AIOM

A+ Blade Server 8U 20 nodes GPU support

SBA–4119SG

Specifications

①	**Processor Support per Node**	
	Single EPYC processors (Socket SP3) UP to 64 cores **225W @ 35C**	
②	**Memory Capacity per Node**	
	8 DIMM, up to 2TB DDR4 3200 MHz Reg. ECC	
③	**Expansion Slots per Node**	
	2 PCI-E 4.0 x16	
④	**I/O ports per Node**	
	Mezzanie (25G / EDR / HDR) 1 Built-in video from BMC 2x Onboard 25G	
⑤	**System management and Security Feature**	
	Built-in Server management tool (IPMI 2.0, KVM over IP, RedFish, API/TPM 2.0, Signed FW, HW ROT) **(ASPEED 2600)**	
⑥	**Storage per Node**	
	1x M.2 (PCIe 4. x4)	
⑦	**System Cooling**	
	8 heavy duty hot swap External fans	
⑧	**Power Supply**	
	2200W high-efficiency (Titanium level) Redundant Power Supplies	

80 PLUS TITANIUM

Key Features:

- Single Socket, 16 DIMMs up to 4TB DDR4 3200MHz
- 8 nodes Front I/O and Front Serviceability
- PCIe Gen 4.0
- Flexible Network Via AIOM

A+ UP FatTwin Front I/O 4U 8 Nodes

AS –F1114S-FT

80 PLUS TITANIUM

Specifications

①	**Processor Support Per Node** Single EPYC 7002/7003 Series up to **280W TDP**
②	**Memory Capacity** 16 DIMMs; up to 4TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM
③	**Expansion Slots** 1 PCI-E Gen 4.0 x16 LP 1 PCI-E Gen 4.0 x16 LP 1 PCI-E Gen 4.0 x16 AIOMOCP 3.0
④	**I/O ports** 1 Built-in video 2 USB 3.0 ports 1 IPMI
⑤	**System management** Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port **(ASPEED 2600)**
⑥	**Drive Bays** Up to 4x 2.5" internal drive bays Up to 2x 3.5" internal drive bays 2x M.2 (NVMe or SATA) Up to 110mm.
⑦	**System Cooling** 8 heavy duty hot swap External fans
⑧	**Power Supply** 2200W high-efficiency **(Titanium level)** power supply

Key Features:

- Support 2 PCI-E 4.0 x4 M.2 NVMe/SATA,
- 4x SSD/HDDs (internal)
- 2 PCI-E 4.0 x16(LP) and 1 PCI-E 4.0 x16 AIOM/OCP3.0
- Titanium level high efficiency digital power supply
- Hot plug nodes and fans
- Front I/O and Front Serviceability

A+ UP FatTwin Rear I/O 4U 8 Nodes

AS –F1114S-RNTR

80 PLUS TITANIUM

❶ Processor Support Per Node
Single EPYC 7002/7003 Series up to **280W TDP**

❷ Memory Capacity Per Node
8 DIMMs; up to 2TB 3DS ECC
DDR4-3200MHz RDIMM/LRDIMM

❸ Expansion Slots Per Node
1 PCI-E Gen 4.0 x16 LP
1 PCI-E Gen 4.0 x16 AIOMOCP 3.0

❹ I/O ports Per Node
1 Built-in video
2 USB 3.0 ports
1 IPMI

❺ System management
Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port **(ASPEED 2600)**

❻ Drive Bays Per Node
Up to 6 x 2.5" NVMe/SATA drive bays
4x M.2 (NVMe or SATA) Up to 110mm.

❼ System Cooling Per Node
3x 20.5K-17.6K RPM internal fans per node

❽ Power Supply
2200W high-efficiency **(Titanium level)** power supply

Key Features:

- **Support 6x 2.5" NVME/SATA Devise**
- **4 PCI-E 4.0 x4 M.2 (NVMe or SATA)**
- **1 PCI-E 4.0 x16 LP and 1 PCI-E 4.0 x16 AIOM/OCP3.0**
- **Titanium level high efficiency digital power supply**
- **Hot plug nodes**
- **Rear I/O Front Serviceability**

A+ UP FatTwin Rear I/O 4U 4 Nodes

AS –F2014S-RNTR

Specifications

❶ **Processor Support Per Node**
Single EPYC 7002/7003 Series up to **280W TDP**

❷ **Memory Capacity Per Node**
8 DIMMs; up to 2TB 3DS ECC
DDR4-3200MHz RDIMM/LRDIMM

❸ **Expansion Slots Per Node**
1 PCI-E Gen 4.0 x16 LP
1 PCI-E Gen 4.0 x16 AIOM/OCP 3.0

❹ **I/O ports Per Node**
1 Built-in video
2 USB 3.0 ports
1 IPMI

❺ **System management Per Node**
Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port **(ASPEED 2600)**

❻ **Drive Bays Per Node**
Up to 8 x 3.5" SAS/SATA/NVMe drive bays
4x M.2 (NVMe or SATA) Up to 110mm.

❼ **System Cooling Per Node**
2x 8cm 13.5k RPM middle fans

❽ **Power Supply**
2200W high-efficiency **(Titanium level)** power supply

Key Features:

- **Support 8x 3.5" (6 front/2 rear) SAS/SATA or NVMe Device**
- **4 PCI-E 4.0 x4 M.2 (NVMe or SATA)**
- **1 PCI-E 4.0 x16 LP and 1 PCI-E 4.0 x16 AIOM/OCP3.0**
- **Titanium level high efficiency digital power supply**
- **Hot plug nodes**
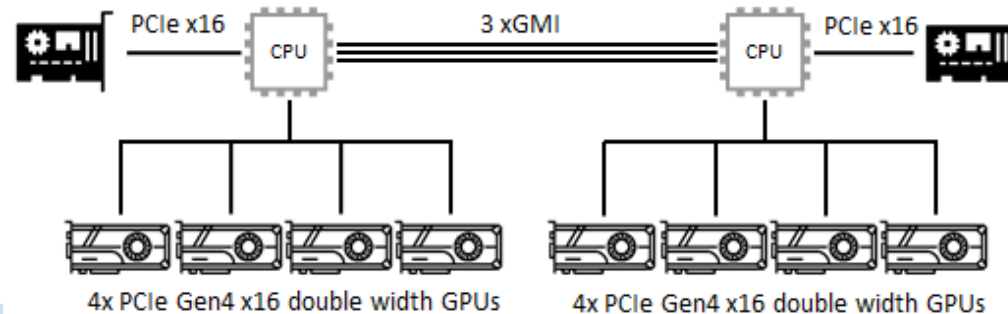- **Rear I/O Front Serviceability**

GPU Servers

A+ DP GPU Server

AS –4124GS-TNR

Key Features:

- 8 Direct attached GPUs
- 160 PCIe Lanes
- PCIe Gen 4.0 AMD Radeon Instinct, Nvidia Enterprise level GPUs
- Flexible Architecture

80 PLUS TITANIUM

Specifications

① **Processor Support Per Node**
Dual EPYC processors (Socket SP3) up to **280W TDP**
Up to 128 cores

② **Memory Capacity Per Node**
32 DIMM, up to 8TB DDR4 3200 MHz Reg. ECC

③ **Expansion Slots ***
9 PCI-E 4.0 x16 or optional **10 PCI-E 4.0 x16***
AIOM
Up to **160 PCI-E Gen 4**

④ **I/O ports**
1 Built-in BMC video (VGA Header), 1 COM port (header)
2 USB 3.0 ports (rear)
2 RJ45 GbE (rear), 1 RJ45 Dedicated IPMI LAN port,

⑤ **System management**
I350 GbE NIC
AST2500 with NC Side Band Access

⑥ **Drive Bays**
Up to 2 SATA in Raid 1 via onboard Marvell
Up to 4 NVMe

⑦ **System Cooling**
8 heavy duty fans w/ Optimal Fan Speed Control

⑧ **Power Supply**
4 x 2000W (2+2) High-efficiency (Titanium Level) Redundant Power Supply

* Limitation on Storage based on Expansion slots

PCIe x16 — CPU — 3 xGMI — CPU — PCIe x16

4x PCIe Gen4 x16 double width GPUs   4x PCIe Gen4 x16 double width GPUs

Tentative. Can change without notice

A+ DP Redstone GPU Server

AS –2124GQ-NART

#		
1	**Processor Support**	Dual EPYC processor (Socket SP3) Up to **128 cores** 4 Amp-100 32GB **SXM4 GPUs**
2	**Memory Capacity**	**32 DIMM**, up to 8TB DDR4 3200 MHz Reg. ECC
3	**Expansion Slots**	**4 PCIe 4.0 x16** LP **1 PCIe 4.0 x8** LP
4	**I/O ports**	1 VGA, 2 USB 3.0, 1 IPMI dedicated LAN port
5	**System management**	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port **(ASPEED 2600)**
6	**Storage**	4 hot-swap 2.5" drives bay (SATA/NVMe Hybrid) M.2 and SAS via HBA
7	**System Cooling**	4 removable heavy duty fans
8	**Power Supply**	2x 2200W Redundant Titanium level efficiency power supplies Upgrade option to 3000W

(Full redundancy based on configuration and application load)

80 PLUS TITANIUM

Key Features:

- High Density 2U System with Nvidia HGX A100 4-GPU
- High GPU Peer to Peer Communication via Nvidia NVLINK
- Less latency with Direct Attached GPUs & Next Gen PCIe 4
- 4 NIC for GPU Direct Attached RDMA & NVMe GPU Direct Storage

A+ DP Delta GPU Server

AS –4124GO-NART

Key Features:

- High Density 4U System with Nvidia HGX A100 8-GPU
- High GPU Communication via Nvidia NVLINK + NVIDIA NVSwitch
- 8 NIC for GPU Direct RDMA (1:1 GPU Ratio)
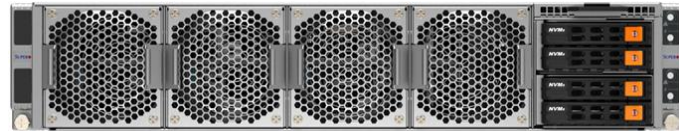- 4 NVMe for GPU Direct Storage & Flexible I/O with AIOM support

Specifications

#		
1	**Processor Support**	Dual EPYC processor (ROME, AMD socket SP3) Up to **128 cores** 8 Amp-100 32GB **SXM4 GPUs**
2	**Memory Capacity**	**32 DIMM**, up to 8TB DDR4 3200 MHz Reg. ECC
3	**Expansion Slots**	**8 PCIe 4.0 x16** from PCIe switch **2 PCIe 4.0 x16** LP from CPUs **AIOM** Support
4	**I/O ports**	1 VGA, 2 USB 3.0, 1 IPMI dedicated LAN port
5	**System management**	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port **(ASPEED 2600)**
6	**Storage**	**6 U.2 NVMe** (4 from PCIe switch & 2 from CPU) 2 M.2 NVMe
7	**System Cooling**	4 removable heavy duty fans
8	**Power Supply**	2x 3000W Redundant Titanium level efficiency power supplies

A+ UP 2U 2Node 3 GPU Server

AS –2114GT-DNR

Front View

Rear View

1 Processor Support
Single EPYC processor (Socket SP3), Up to 64 cores **280W TDP**

2 Memory Capacity
8 DIMM, up to 2TB DDR4 3200 MHz Reg. ECC

3 GPU Support slots per node
3 Double Width GPUs in PCI-E 4.0 x16 slots or
5 Single Width Full Length GPUs in PCI-E 4.0 x16 slots or
6 Single Width Half Length GPUs in PCI-E 4.0 x16 slots

4 Expansion slots per node
6 PCI-E 4.0 x16 FH slots, 1 **AIOM** slot / OCP3.0

5 Networking & I/O – per node
1 Flexible networking via **AIOM**
1 RJ45 Dedicated IPMI LAN port
2 USB 3.0 ports
1 VGA port

6 System Management
IPMI ASPEED AST2600 BMC with dedicated LAN port

7 Drive Bays per node
4 Hot-swap PCI-E Gen4 x4 U.2 drives (2 default at front, 2 optional at rear)
2 PCI-E Gen4 x4 M.2 connectors

8 System Cooling
4x Heavy duty 8cm PWM fans

9 Power Supply
2600W 1+ 1 High-efficiency (Titanium level, 96%) supplies

10 Dimensions
17.25" (W) x 3.47" (H) x 29.9" (D)

Key Features:

- 3 Direct Attached GPUs
- PCIe Gen 4.0 AMD Radeon Instinct & Nvidia Enterprise GPUs
- Flexible Architecture
- 4x Hot-swap 8cm counter-rotating cooling fans

Tower

Tentative. Can change without notice

Better Faster Greener™ © 2022 Supermicro

A+ UP Mid-Tower Server

AS –3014TS-i

❶ Processor Support
Single EPYC 7002 processors AMD socket SP3 Up to 64 cores **280W TDP**

❷ Memory Capacity
8 DIMM, up to 2TB DDR4 3200 MHz Reg. ECC

❸ Expansion Slots
5 PCI-E 4.0 x16 (FH) slots
2 PCI-E 4.0 x8 (FH) slots

❹ I/O ports
2x Gbe RJ45 ports
1x Built-in Video and 1x COM port (rear)
6x USB 3.0 ports (4 rear; 2 via header)

❺ System management
Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

❻ Storage
4 Internal 3.5" drive bays
2 M.2 PCI-E 4.0 x4 Connectors
4 Internal 2.5 SATA drive bays (with optional kits)

❼ System Cooling
2x 12cm fans w/ Optimal Fan Speed Control

❽ Power Supply
900W (Gold Level) High Efficiency PWS

(Full redundancy based on configuration and application load)

Key Features:

- Mid Tower optimized system offers ultimate flexibility on I/O
- 5 PCIe 4.0 x16, 2x PCIe 4.0 x8 FH slots
- 2 GPU support
- 4 3.5", 4 2.5" Internal drive bays with 2x onboard PCIe 4.0 M.2

A+ UP SuperWorkstation

AS –5014A-TT

Key Features:

- AMD Ryzen™ Threadripper™ PRO 3000WX Series Processors
- Supports 4 double width active GPUs
- High Performance closed-loop water cooling for CPU
- 6 PCIe Gen 4.0 x16

Specifications

1 Processor Support
Single Ryzen™ Threadripper™ PRO 3000WX Series Processors up to 64 Cores

2 Memory Capacity
8 DIMM, up to 2TB DDR4 3200 MHz Reg. ECC

3 Expansion Slots
6 PCI-E 4.0 x16

4 I/O ports
1x 10GbE RJ45, 1x 1GbE RJ45 (shared with IPMI)
13 USB ports, (8 rear , 5 front)
1x Built-in Video and 1x COM port (rear), 7.1 HD Audio

5 System management
Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

6 Storage
4 3.5"/2.5" SATA (internal), 2 2.5" SATA (Front access)
4 M.2 NVMe PCIe Gen 4
2 5.25" peripheral drive bays

7 System Cooling
1x 12cm rear exhaust fan, 2x 12cm front cooling fans
Optional high-performance closed-loop water cooling for CPU

8 Power Supply
1x 2000W Platinum Level power supply