

# IoT SuperServer AS -2116S-TNRT

H14 2U compact edge AI system with up to 6 PCIe slots and redundant PSU

## Key Applications

AI Inference and Machine Learning, Network Function Virtualization (NFV),  
Telco Edge, Edge/Cloud Computing Services,

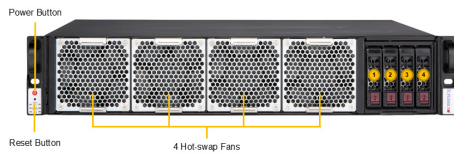
## Key Features

- Single processor(s) AMD EPYC™ 9005 Series Processors up to 500W with air cooling;
- Up to 12 DIMMs supporting up to 3TB DDR5-6400;
- 1 PCIe x16 (FHFL, optional), 3 PCIe 5.0 x16(HHFL), 2 PCIe 5.0 x8(HHFL);
- 2x 10GBase-T LAN Ports;
- 4 front hot-swap 2.5" NVMe/SATA drive bays, 2 M.2 2280/22110 drive bays;
- 1000W / 2000W 100-240Vac Titanium Single Power Supply (can be upgraded to redundant power supply);
- 2U Rackmount chassis with 17.72" (450mm) depth;



<b>Form Factor</b>	2U Rackmount Enclosure: 437 x 89 x 450mm (17.2" x 3.5" x 17.72") Package: 720 x 266 x 555mm (28.35" x 10.47" x 21.85")
<b>Processor</b>	Single processor(s) AMD EPYC™ 9005 Series Processors Up to 192C/384T; Up to 384MB Cache
<b>GPU</b>	Max GPU Count: Up to 1 double-width or 5 single-width GPUs CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect
<b>System Memory</b>	Slot Count: 12 DIMM slots Max Memory (1DPC): Up to 3TB 6400MT/s ECC DDR5 RDIMM
<b>Drive Bays Configuration</b>	Default: Total 4 bays <ul style="list-style-type: none"> <li>• 4 front hot-swap 2.5" NVMe*/SATA drive bays</li> </ul> (*NVMe support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 2 M.2 PCIe 5.0 x4 NVMe/SATA slots (M-key 22110(default)/2280)
<b>Expansion Slots</b>	Option A <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 (in x16) FHFL double-width slot</li> </ul> Default <ul style="list-style-type: none"> <li>• 3 PCIe 5.0 x16 (in x16) HHFL slots</li> <li>• 2 PCIe 5.0 x8 (in x8) HHFL slots</li> </ul>
<b>On-Board Devices</b>	2 RJ45 10GBASE-T with Broadcom® BCM57416
<b>Input / Output</b>	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GbE LAN ports USB: 4 USB 3.2 Gen1 Type-A ports Video: 1 VGA port

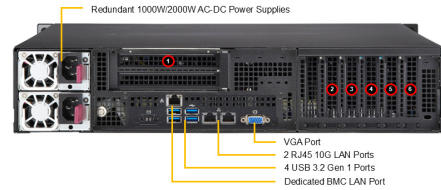
(Rear View – System)



Drive Bay	Description
1-4	4 Hot-swap 2.5" NVMe/SATA Drive Bays

\*Hot-swap requires additional parts from the optional parts kit

(Rear View – System)



Slot	Slot Description
1	PCIe 5.0 x16 FHFL (optional)
2	PCIe 5.0 x16 HHFL
3	PCIe 5.0 x8 HHFL

\*Requires additional parts from the optional parts kit, and Intel processor to lower TDP

System Cooling	Fans: Up to 4x 8cm Fan(s) Air Shroud: 1 per node Air Shroud
Power Supply	2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 64MB UEFI
Management	SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory Fan: Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control Temperature: Monitoring for CPU and chassis environment
Dimensions and Weight	Weight: Gross Weight: 23 lbs (10.43 kg) Net Weight: 17 lbs (7.7 kg) Available Color: Black
Operating Environment	RoHS Compliant Name: A2 Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -30°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 80% (max 21° DP; non-condensing) Non-operating Relative Humidity: 8% to 90% (max 38° DP; non-condensing)
Motherboard	<a href="#">Super H14SSL-NT</a>
Chassis	<b>CSE-223M2-R000LPNDP</b>