

TECHNICAL DATASHEET

SUPERMICRO · GPU & AI SERVERS

Supermicro 2U GPU Server AS-2114GT-DPNR

2U 2-Node System with UP AMD and Up to 3 GPUs per Node

SKU AS-2114GT-DPNR

2U

Supermicro



FORM FACTOR

2U

MAX POWER (BASE)

333 W

HEAT OUTPUT

1,136 BTU/h

PRICE

On request

REQUEST A QUOTATION ONLINE

serverinvest.com/product/as-2114gt-dpnr

01 Product overview

The Supermicro AS-2114GT-DPNR is a 2U GPU Server built on Single Socket SP3 AMD EPYC 7002/7003 Series Processors with up to 2 TB of memory in 8 DIMM slots.

2U 2-Node System with UP AMD and Up to 3 GPUs per Node.

The chassis accepts up to 2 GPU accelerators for AI, rendering and HPC workloads.

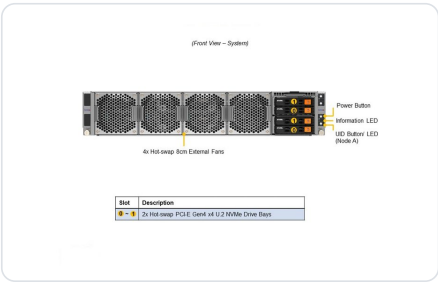
ServerInvest configures every AS -2114GT-DPNR to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- Single Socket SP3 AMD EPYC 7002/7003 Series Processors
- Up to 2 TB memory · 8 DIMM slots
- Total 2 bays 2 front hot-swap 2.5" NVMe drive bays
- Up to 2 GPUs
- Power: 2x 2600W
- Networking: Ethernet

KEY SPECIFICATIONS

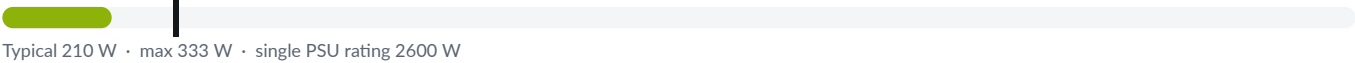
Form factor	2U
Processor	Single Socket SP3 AMD EPYC 7002/7003 Series Processors
Memory	8 DIMM slots, up to 2 TB
Drive bays	2 (2 NVMe)
GPU	Up to 2 GPUs
Power supply	2× 2600 W
Typical power draw	1350 W
Networking	Ethernet
Dimensions (W×H×D)	437 × 89 mm



02 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
86 W	210 W	333 W	1,136 BTU/h	0.3 kW	13%



Typical 210 W · max 333 W · single PSU rating 2600 W

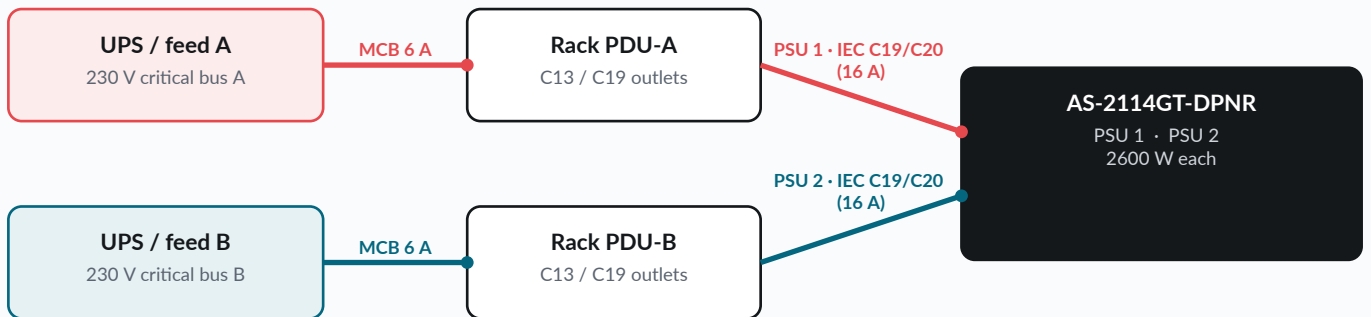
Annual IT energy (24/7)	1,514 kWh
Annual facility energy (PUE 1.5)	2,271 kWh
Annual energy cost	€303 IT · €454 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.59 t (grid factor 0.26 kg/kWh)
Power supplies	2× 2600 W redundant (N+1)

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	50 W	77 W	110 W
CPU (base configuration)	25 W	110 W	185 W
2× Memory (base configuration)	6 W	10 W	18 W

DC loads converted to wall power at 94% PSU efficiency; typical load assumed 70% of the time. Engineering estimates — confirm with the manufacturer's power calculator for critical designs.

03 Power connection diagram

Dual-feed (A/B) connection for redundant power supplies



- Connect PSU 1 to PDU-A and PSU 2 to PDU-B (independent feeds) using IEC C19/C20 (16 A) power cords.
- Maximum current per feed: 1.5 A at 230 V — each feed must be able to carry the full load if the other fails.
- Recommended protection per PDU circuit: MCB 6 A, curve C; RCD according to local regulations.
- Heat to remove at full load: 333 W = 1,136 BTU/h (0.3 kW).

04 Full specifications

MOTHERBOARD

Super H12SSG-ANP6

PROCESSOR (PER NODE)

CPU	Single Socket SP3 AMD EPYC 7002/7003 Series Processors
Note	Supports up to 280W TDP CPUs (Air Cooled)

GPU (PER NODE)

Max GPU Count	Up to 2 double-width or 4 single-width GPUs
Supported GPU	NVIDIA PCIe: A10, A100, A16, A2, A40, L40, RTX A4000, RTX A4500, RTX A6000 AMD PCIe: Instinct MI100, Instinct MI210 View GPU Options

SYSTEM MEMORY (PER NODE)

Memory	Slot Count: 8 DIMM slots Max Memory (1DPC): Up to 2TB ECC DDR4 RDIMM/LRDIMM View Memory Options
Memory Voltage	1.2V

ON-BOARD DEVICES (PER NODE)

Network Connectivity	Ethernet InfiniBand View AIOM Options View AOC Options
IPMI	Support for Intelligent Platform Management Interface v2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

INPUT / OUTPUT (PER NODE)

LAN	1 RJ45 1 GbE Dedicated BMC LAN port
USB	2 USB 3.0 ports (rear)
Video	1 VGA port (Rear)
Serial	1 COM port
TPM	1 TPM header

SYSTEM BIOS

BIOS Type	AMI 256MB Flash ROM
-----------	---------------------

MANAGEMENT

Software	Supermicro Server Manager (SSM) Supermicro Power Manager (SPM) Supermicro Update Manager (SUM) Supermicro SuperDoctor 5 (SD5) KVM with dedicated LAN IPMI 2.0 Watch Dog
----------	---

SECURITY

Hardware	Trusted Platform Module (TPM) 2.0 Silicon Root of Trust (RoT) – NIST 800-193 Compliant
Features	Cryptographically Signed Firmware Secure Boot Secure Firmware Updates Automatic Firmware Recovery System Lockdown

PC HEALTH MONITORING

CPU	4+1 Phase-switching voltage regulator 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 Thermal Control for fan connectors

CERTIFICATIONS

Operating Systems	Ryzen: Oracle Linux 8.5, RHEL 8.5 View all OS Compatibility and Certification Matrix
-------------------	---

CHASSIS

Form Factor	2U Rackmount
Model	CSE-227GTS-R2K63P

DIMENSIONS AND WEIGHT

Height	3.47" (88 mm)
Width	17.6" (447 mm)

Depth	29.9" (760 mm)
Package	9.44" (H) x 23.62" (W) x 43.3" (D)
Weight	Gross Weight: 60 lbs (27.21 kg) Net Weight: 55 lbs (24.94 kg)
Available Color	Black Front & Silver Body

FRONT PANEL

Buttons	Power On/Off button System UID button/LED
LED	Hard drive activity LED Information LED as manual description Network activity LEDs Power status LED

EXPANSION SLOTS (PER NODE)

PCI-Express (PCIe) Configuration	Default 1 PCIe 4.0 x16 FHHL slot 1 PCIe 4.0 x16 FHFL slot 1 PCIe 4.0 x8 AIOM slot (OCP 3.0 compatible) Option A* 1 PCIe 4.0 x16 FHHL slot 1 PCIe 4.0 x16 FHFL slot 1 PCIe 4.0 x16 AIOM slot (OCP 3.0 compatible) (*Requires additional parts, please see the optional parts list for details. For more details on PCIe slot configuration options, please refer to the system callout images above.) View AOC Options
----------------------------------	--

DRIVE BAYS / STORAGE (PER NODE)

Drive Bays Configuration	Default: Total 2 bays 2 front hot-swap 2.5" NVMe drive bays View NVMe Options View Drive Options
--------------------------	--

SYSTEM COOLING

Fans	N/A
------	-----

POWER SUPPLY

2x 2600W
2x 2600W Redundant (1 + 1) Titanium Level (96%) power supplies
Dimension (WxHxL)
73.5 x 40 x 265 mm

OPERATING ENVIRONMENT

RoHS	RoHS Compliant
Environmental Spec.	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)

05 Built, tested & supported by ServerInvest

Engineered configuration

Every option validated for socket, memory channels, PCIe lanes, power and cooling.

48-hour burn-in

Assembled, firmware-updated and stress-tested before it leaves our workshop.

3-year warranty

Standard on every system, with on-site next-business-day upgrades available.

Rack-ready delivery

Rails, cable management and labelling included — delivered across Europe.



Interested in this solution?

Request a quotation online or talk to a solutions engineer — we reply within one business day.
office@serverinvest.com

Official manufacturer datasheet: serverinvest.com/product/as-2114gt-dpnr/datasheet/manufacture

