PRODUCT BRIEF

Supermicro and AMD Deliver Rack Compute for High-Density Workloads and Fast Deployment

Supermicro AS -2115HV-TNRT Rack Workstation and AS -1015A-MT Gold Series Entry Server

OCTOBER 2026



AS -2115HV-TNRT
2U Rack Workstation



AS -1015A-MT Gold Series
1U Entry Rack Server

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EXECUTIVE SUMMARY

IT teams often manage two distinct infrastructure needs at once: dense compute for AI, rendering, simulation, and compact, standardized systems for everyday services. The Supermicro AS -2115HV-TNRT is a 2U rack workstation built on a single-socket AMD Ryzen™ Threadripper™ PRO 9000WX processor, supporting up to four double-width professional GPUs, 96 CPU cores, and 2,600W of Titanium-rated redundant power — GPU density that would require a dual-socket platform from the closest rack-workstation competitor. The Supermicro AS -1015A-MT Gold Series is a pre-configured, ship-ready 1U AMD EPYC™ 4004/4005 entry server built for fast, standardized rollout of web, application, and branch infrastructure. Both platforms share Supermicro's systems-management stack, run on AMD silicon, and fit the same 19-inch rack footprint — giving IT a coordinated way to plan GPU-dense and everyday compute side by side, without asking one box to do the other's job.

SYSTEMS AT A GLANCE

	AS -2115HV-TNRT	AS -1015A-MT Gold Series (01-G2)
Form factor	2U rack workstation	1U entry rack server
CPU	AMD Ryzen™ Threadripper™ PRO 9000WX / 7000WX, up to 96C/192T, single socket	Single AMD EPYC™ 4564P Processor (16-Cores)
Max GPUs	Up to 4x PCIe 5.0 x16 double-width slots (or 8x PCIe 5.0 x8 single-width option)	AMD Radeon™ PRO W7500 or up to 1 single-width GPU
Power supply	2× 2,600W Titanium redundant (1+1)	1× 500W Platinum, non-redundant

THE AS -2115HV-TNRT: BUILT FOR GPU DENSITY

Benchmark Results

- The AS -2115HV-TNRT posted a Cinebench R23 multi-core score of 111,792 — 152% higher than Competitor B (44,416, 4× RTX A6000). (StorageReview)
- The same AS -2115HV-TNRT unit decoded Blackmagic RAW 8K footage via CUDA at 664 fps — 50% faster than Competitor B's 444 fps in the identical test suite. (StorageReview)
- On the current-generation Threadripper PRO 9995WX, supported on this same WRX90 platform, SPECworkstation 3.1's WPCcfd workload showed an 85% advantage over a 64-core Threadripper 9980X, and Cinebench 2024 multi-core scored 7,508 — 27% higher than the prior-generation 7995WX. (AEC Magazine; Puget Systems)

Competitor B = HP Z8 Fury G5. Tested configuration: Threadripper PRO 7995WX, 4× NVIDIA RTX 6000 Ada, dual 2000W PSUs. Source: StorageReview independent lab testing.

Head-to-Head: AS -2115HV-TNRT vs. Competitor A

Dimension	Supermicro AS -2115HV-TNRT	Competitor A
Rack height	2U	2U
Max double-width GPUs	Up to 4	Up to 2 — requires dual-CPU config + 1400W/2400W PSU
Sockets needed for max GPU	1 (single-socket sTR5)	2 required
GPU generation on spec sheet	NVIDIA Blackwell (RTX PRO 4000–6000 Max-Q) + H200 NVL	Ada/Ampere-era only (RTX 6000 Ada, A6000, etc.)
Power supply	2× 2,600W Titanium redundant	Up to 1,400W/2,400W Platinum; 1,100W Titanium optional
Depth	31.74" / 806.2 mm	30.40" / 772.13 mm with bezel
Max memory	2TB DDR5-6400, 8 DIMMs	8TB DDR5-5600, 32 DIMMs — Competitor A is ahead here
Max published OCP 3.0 NIC option	Up to 400Gbps via AIOM (OCP 3.0)	No published OCP 3.0 option above 4×25GbE SFP28

Competitor A = Dell (Precision 7960 Rack, as configured above). Source: Supermicro AS -2115HV-TNRT product page;
Competitor A spec sheet (delltechnologies.com). Networking row compares published OCP 3.0 options; GPU rows compare double-width GPU capacity.

Power budget check

Four NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition GPUs (300W each = 1,200W) plus a 350W-TDP AMD Threadripper PRO CPU total roughly 1,550W at the GPU-and-CPU layer only. H200 NVL (141GB) is on the validated list and can draw up to 600W per card. Four H200 NVL cards, plus the CPU, can exceed the capacity of a single 2,600W PSU. Full redundancy depends on the selected PSU, input voltage (the 2,600W option is specified at 220–264Vac), and total system load including memory, fans, storage, and networking — not CPU and GPU TDP alone. Contact your Supermicro representative to size GPU selection, PSU, and redundancy to the target configuration.

Validated GPU List

Validated GPU support is configuration-dependent. Confirm the current supported list with your Supermicro representative before quoting

- NVIDIA: NVIDIA H200 NVL (141GB), L4, L40S, NVIDIA RTX PRO™ 4000 / 4500 / 5000 Blackwell, RTX PRO 6000 Blackwell Max-Q Workstation Edition (300W), RTX 4000 / 4500 / 5000 / 6000 Ada Generation, RTX A6000
- AMD: Instinct™ MI210, Radeon AI PRO R9700, Radeon AI PRO R9700S

Source: Supermicro AS -2115HV-TNRT supported GPU list; NVIDIA RTX PRO 6000 family datasheet.

Full Specifications — AS -2115HV-TNRT

Category	Specification
CPU	Single socket sTR5; AMD Ryzen Threadripper PRO 9000WX/7000WX; up to 96C/192T, 384MB cache, 350W TDP; CPU and memory overclocking supported (validate change-control and warranty impact with your Supermicro representative before enabling in production or regulated environments)
Memory	8 DIMM slots; up to 2TB DDR5-6400 ECC RDIMM/3DS RDIMM (1DPC)
GPU / expansion	Up to 4× PCIe 5.0 x16 double-width slots (or 8× PCIe 5.0 x8 single-width option) + 1× PCIe 5.0 x16 AIOM slot, OCP 3.0 compatible, up to 400Gbps (2nd AIOM slot optional)
Storage	8× hot-swap 2.5" NVMe/SAS/SATA bays + 2× M.2 PCIe 4.0 x4 NVMe (RAID 0/1)
Power	2× 2,600W redundant (1+1), Titanium-certified (96% efficiency); 1,600W/2,000W options available
Chassis/dimensions	2U rackmount; 17.2"W × 3.5"H × 31.74"D (437 × 88.9 × 806.2 mm); net weight 45 lbs (20.5 kg)
Cooling/environment	Up to 6× counter-rotating PWM fans; operating range 10–35°C; acoustic (dBA) rating not published
Management	ASPEED AST2600 BMC; SuperCloud Composer, Supermicro Server Manager (SSM), Supermicro Update Manager, SuperDoctor 5, Super Diagnostics Offline, Thin-Agent Service, SuperServer Automation Assistant
Security	TPM 2.0 onboard + header; Silicon Root of Trust (NIST 800-193); signed firmware, Secure Boot, remote attestation

Source: Supermicro AS -2115HV-TNRT product page and datasheet (supermicro.com); user manual MNL-2697.

MATCHING THE RACK TIER TO THE JOB

Industry	2U workload (AS -2115HV-TNRT)	1U supporting role (AS -1015A-MT Gold)	Proof point
AI/ML development & research	Multi-GPU training, fine-tuning, high-throughput inference on one node	Data preprocessing staging; single-GPU lightweight inference endpoint (NVIDIA L4/ RTX 4000 Ada available)	Up to 4 Blackwell-class GPUs on one socket (Supermicro)
Financial services & insurance	GPU-accelerated risk modeling, Monte Carlo simulation, fraud detection	Standard Gold SKU (dual 1GbE): branch/back-office infrastructure, internal reporting, DNS, security appliance hosting — not trading or market-data services. Custom-configured build with AMD Solarflare X4: ultra-low-latency market-data/ execution node	AS -1015A-MT beat Competitor A by 12.6% latency (AMD)
Media, entertainment & visualization	Rendering, GPU-accelerated VFX, multi-job throughput	Asset management, transcoding queue orchestration, publishing workflows — not virtual workstation hosting (32GB RAM, no GPU, 1GbE cannot support it)	152% higher Cinebench R23 multi-core vs. Competitor B (StorageReview)
Engineering & simulation	GPU-accelerated solvers, multiphysics simulation	License servers, engineering data services, visualization portals	85% WPCcfd advantage over a 64-core Threadripper 9980X (AEC Magazine)
Web, application & business services	GPU-dense tier available in the same rack for adjacent AI/render needs	Primary role: web/app hosting, DNS, print/file, firewall, light virtualization; pre-configured, ships next business day	Gold Series ships pre-configured, next business day (Supermicro Gold Series brochure)

The AS -1015A-MT Gold Series: Ready-to-Deploy Entry Infrastructure

The AS -1015A-MT Gold Series (01-G2) is a pre-configured, ship-ready 1U entry server built around a 16-core AMD EPYC 4564P processor, 32GB of DDR5-5600 ECC memory, a single 1.92TB M.2 NVMe SSD, dual 1GbE networking, and dedicated IPMI — ships next business day.

This configuration is built for bounded, well-defined roles: web and application hosting, DNS, print/file services, branch and edge infrastructure, firewall/security appliance hosting, and light virtualization. For workloads needing 10GbE or ultra-low-latency networking (an AMD Solarflare X4/X2 adapter), RAID-protected storage, or a single-width GPU in the platform's one PCIe 5.0 x16 slot, your Supermicro representative can configure the base AS -1015A-MT to spec.

Spotlight: ultra-low-latency networking (capital markets)

The Solarflare X4542 adapter delivers 12.6% (77 ns) lower latency on the AS -1015A-MT than Competitor A and 9% (54 ns) lower latency than AMD's own EPYC 9575F platform, with 4-byte payloads (AMD, footnote 9xx5-252). The X4522/X4542 are standard PCIe Gen5 x8 cards: on the AS -1015A-MT, one occupies the platform's single PCIe slot in a custom configuration; on the AS -2115HV-TNRT, one occupies a GPU slot alongside three GPUs. Contact your Supermicro representative to configure Solarflare X-Series support on either platform.

Competitor A = Dell (tested by AMD as a Dell R760 server, Intel Xeon 6534). Source: AMD Solarflare X4 product page and October 2025 launch blog, amd.com (footnotes 9xx5-251, 9xx5-252); Supermicro AS -1015A-MT and AS -2115HV-TNRT product pages, supermicro.com.

Full Specifications — AS -1015A-MT Gold Series (01-G2)

Category	Specification
CPU	1× AMD EPYC 4564P, 16C/32T, 4.5GHz
Memory	32GB DDR5-5600 (platform supports up to 192GB across 4 DIMM slots in custom builds)
Storage	1× 1.92TB M.2 NVMe SSD (platform has 2× M.2 PCIe 5.0 x4 slots, RAID 0/1, in custom builds)
Networking	1× dual-port 1GbE NIC + 1× dedicated 1GbE IPMI port
Power	1× 500W Platinum, non-redundant
Expansion	1× PCIe 5.0 x16 FHHL slot, up to 1 single-width GPU (NVIDIA A2/L4/RTX 4000 Ada/RTX A4000; AMD Radeon Pro W7500)
Management	IPMI 2.0 + KVM; SuperCloud Composer, SSM, Supermicro Update Manager, SuperDoctor 5
Chassis/dimensions	1U; 17.2"W × 1.7"H × 16.9"D (437 × 43 × 429 mm); gross weight 16 lbs (7.26 kg)

Source: Supermicro AS -1015A-MT Gold SKU datasheet and AS -1015A-MT product page (supermicro.com).

ONE PLATFORM FAMILY, ONE MANAGEMENT LAYER

Beyond shared AMD silicon and the Supermicro brand, three concrete integration points let IT standardize across both tiers today:

- Systems management: both platforms run SuperCloud Composer, Supermicro Server Manager (SSM), Supermicro Update Manager, SuperDoctor 5, Super Diagnostics Offline, and Thin-Agent Service — the same monitoring, firmware, and diagnostics tooling across every rack unit. (Supermicro product pages)
- Rack footprint: both are 437mm (17.2") wide, fitting standard 19-inch rack rails without special adapters. (Supermicro)
- Security baseline: both include a TPM 2.0 header for hardware root-of-trust; the AS -2115HV-TNRT adds Silicon Root of Trust and signed-firmware attestation. (Supermicro)

Total Cost of Ownership

Consolidating legacy single-GPU towers onto one AS -2115HV-TNRT compounds its density advantage into measurable rack, power, and cost savings.

Assumptions: replacing four legacy single-GPU rack towers (700W each under sustained load, 4U each = 16U total) with one AS -2115HV-TNRT configured with four RTX PRO 6000 Blackwell Max-Q GPUs (~1,800W under sustained 4-GPU load, based on 4×300W GPU + up to 350W CPU + platform overhead), at the April 2026 EIA national average commercial electricity rate of 13.51¢/kWh, running 24/7/365.

	Legacy (4 towers)	Consolidated (1× AS -2115HV-TNRT)	Difference
Rack space	16U	2U	14U saved (87.5%)
Est. power draw	2,800W	~1,800W	~1,000W saved (~36%)
Annual energy cost	~$3,314	~$2,131	~$1,183/year saved
3-year energy cost	~$9,942	~$6,393	~$3,549 saved

Source: EIA Electric Power Monthly, national average commercial rate, April 2026 (13.51¢/kWh); component TDPs from NVIDIA and Supermicro published specifications. Actual savings vary by workload, configuration, and site conditions; cooling-load, floor-space, and administrative-overhead savings are not included and would add further benefit.

ISV and Platform Certifications

- Autodesk 3ds Max 2025 is certified for both the RTX PRO 6000 Blackwell Workstation Edition and Max-Q Workstation Edition (driver 572.60). (Autodesk certified hardware list)

CONCLUSION

The choice between these two platforms is not an either/or decision — it is a tiered decision. Use the AS -2115HV-TNRT where GPU density, rack consolidation, and workstation-class acceleration matter: AI training and inference, rendering and VFX, engineering simulation, and financial modeling. Use the AS -1015A-MT Gold Series where standardized, compact infrastructure needs fast, repeatable rollout: web and application hosting, branch and edge services, and supporting roles that surround the GPU-dense tier.

Together, the two platforms let IT support advanced workloads and everyday services under a single Supermicro management model, in the same 19-inch rack, on AMD silicon — consolidating vendors, consoles, and procurement while giving each workload the platform it was designed for. The result is a rack architecture that is faster to deploy, simpler to manage, and measurably cheaper to operate than the scattered towers and one-off servers it replaces.

READY TO DEPLOY

AS -2115HV-TNRT product page: supermicro.com/en/products/system/superworkstation/2u/as-2115hv-tnrt

AS -1015A-MT Gold Series product page: supermicro.com/en/products/system/mainstream/1u/as-1015a-mt

Order SKUs: **AS - 2115HV-TNRT** base system; **AS -1015A-MT-01-G2** (Gold Series pre-configured SKU).

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