

# Complete GPU Supercluster Reference Documents

## NVIDIA RTX PRO 6000 Blackwell & AMD MI355X Technical Documentation

Category	Document Name	Description	URL
NVIDIA RTX PRO 6000 Blackwell - Core Documentation			
GPU Specs	RTX PRO 6000 Blackwell Workstation Datasheet	Official specifications, 600W variant	<a href="https://www.nvidia.com/content/dam/en-zz/Solutions/6000-blackwell-workstation-edition/workstation-blackwell-workstation-edition-nvidia-us-3519208-web.pdf">https://www.nvidia.com/content/dam/en-zz/Solutions/6000-blackwell-workstation-edition/workstation-blackwell-workstation-edition-nvidia-us-3519208-web.pdf</a>
Architecture	RTX PRO Blackwell Architecture Whitepaper	Complete Blackwell architecture deep dive	<a href="https://www.nvidia.com/content/dam/en-zz/Solutions/visualization/quadro-product-literature/NVIDIA-RTX-Blackwell-Architecture-v1.0.pdf">https://www.nvidia.com/content/dam/en-zz/Solutions/visualization/quadro-product-literature/NVIDIA-RTX-Blackwell-Architecture-v1.0.pdf</a>
GPU Specs	RTX PRO 6000 Max-Q Datasheet	300W variant specifications	<a href="https://www.nvidia.com/content/dam/en-zz/Solutions/visualization/quadro-product-literature/workstation-datasheets/rtx-pro-6000-max-q-nvidia-3519233.pdf">https://www.nvidia.com/content/dam/en-zz/Solutions/visualization/quadro-product-literature/workstation-datasheets/rtx-pro-6000-max-q-nvidia-3519233.pdf</a>
Product Info	RTX PRO 6000 Blackwell Workstation Page	Product overview and features	<a href="https://www.nvidia.com/en-us/products/workstations/gpus/rtx-pro-6000/">https://www.nvidia.com/en-us/products/workstations/gpus/rtx-pro-6000/</a>
Product Info	RTX PRO 6000 Server Edition Page	Datacenter variant information	<a href="https://www.nvidia.com/en-us/data-center/rtx-pro-6000-server-edition/">https://www.nvidia.com/en-us/data-center/rtx-pro-6000-server-edition/</a>
Product Family	RTX PRO 6000 Family Overview	All variants and configurations	<a href="https://www.nvidia.com/en-us/products/workstations/gpus/rtx-pro-6000-family/">https://www.nvidia.com/en-us/products/workstations/gpus/rtx-pro-6000-family/</a>
AMD MI355X - Core Documentation			
GPU Specs	AMD MI355X GPU Datasheet	Complete specifications, architecture	<a href="https://www.amd.com/content/dam/amd/en/documents/product-briefs/amd-instinct-mi355x-gpu-brochure.pdf">https://www.amd.com/content/dam/amd/en/documents/product-briefs/amd-instinct-mi355x-gpu-brochure.pdf</a>
Platform	AMD MI355X Platform	Server integration,	<a href="https://www.amd.com/content/dam/amd/en/documents/product-briefs/amd-instinct-mi355x-platform-brochure.pdf">https://www.amd.com/content/dam/amd/en/documents/product-briefs/amd-instinct-mi355x-platform-brochure.pdf</a>

Category	Document Name	Description	URL
	Datasheet	cooling requirements	
Cluster Guide	AMD MI300 Series Cluster Reference	Cluster design, networking, scaling	<a href="https://www.amd.com/content/dam/amd/en/documents/other/instinct-mi300-series-cluster-reference-guide.pdf">https://www.amd.com/content/dam/amd/en/documents/other/instinct-mi300-series-cluster-reference-g</a>
Product Info	MI355X Product Page	Latest updates and information	<a href="https://www.amd.com/en/products/accelerators/instinct-mi355x">https://www.amd.com/en/products/accelerators/instinct</a>
Product Family	MI350 Series Overview	MI350 family information	<a href="https://www.amd.com/en/products/accelerators/instinct-mi350-series-overview">https://www.amd.com/en/products/accelerators/instinct</a>
Platform	AMD Instinct Accelerators	Full AMD accelerator portfolio	<a href="https://www.amd.com/en/products/accelerators/instinct">https://www.amd.com/en/products/accelerators/instinct</a>
Server Platform Documentation			
Lenovo	ThinkSystem RTX PRO 6000 Blackwell Guide	Server compatibility and specs	<a href="https://lenovopress.lenovo.com/lp2263-thinksystem-rtx-pro-6000-blackwell-server-edition-pcie-gen5-gpu">https://lenovopress.lenovo.com/lp2263-thinksystem-r</a> <a href="https://lenovopress.lenovo.com/lp2263-thinksystem-rtx-pro-6000-blackwell-server-edition-pcie-gen5-gpu">blackwell-server-edition-pcie-gen5-gpu</a>
Dell	PowerEdge GPU Compatibility Matrix	GPU support across PowerEdge servers	<a href="https://www.delltechnologies.com/asset/en-us/products/summaries/poweredge-server-gpu-matrix.pdf">https://www.delltechnologies.com/asset/en-us/produ</a> <a href="https://www.delltechnologies.com/asset/en-us/products/summaries/poweredge-server-gpu-matrix.pdf">ctsummaries/poweredge-server-gpu-matrix.pdf</a>
Dell	RTX PRO 6000 Blackwell Product Page	Dell configuration options	<a href="https://www.dell.com/en-us/shop/nvidia-rtx-pro-6000-600w/apd/ad368558/graphic-video-cards">https://www.dell.com/en-us/shop/nvidia-rtx-pro-6000</a> <a href="https://www.dell.com/en-us/shop/nvidia-rtx-pro-6000-600w/apd/ad368558/graphic-video-cards">600w/apd/ad368558/graphic-video-cards</a>
SuperMicro	RTX PRO 6000 Server Edition	SuperMicro GPU options	<a href="https://store.supermicro.com/us_en/supermicro-rtx-pro-nvrtxpro-6k-b-se.html">https://store.supermicro.com/us_en/supermicro-rtx-p</a> <a href="https://store.supermicro.com/us_en/supermicro-rtx-pro-nvrtxpro-6k-b-se.html">nvr</a>
NVIDIA Blackwell Architecture			
Architecture	Blackwell Architecture Overview	Platform capabilities and features	<a href="https://www.nvidia.com/en-us/data-center/technology-architecture/">https://www.nvidia.com/en-us/data-center/technology</a> <a href="https://www.nvidia.com/en-us/data-center/technology-architecture/">architecture/</a>
Announcement	RTX PRO Blackwell Launch	GTC 2025 announcement details	<a href="https://nvidianews.nvidia.com/news/nvidia-blackwell-r servers-agentic-ai">https://nvidianews.nvidia.com/news/nvidia-blackwell-r</a> <a href="https://nvidianews.nvidia.com/news/nvidia-blackwell-r servers-agentic-ai">servers-agentic-ai</a>

Category	Document Name	Description	URL
Servers	RTX PRO Servers Announcement	2U mainstream server configurations	<a href="https://nvidianews.nvidia.com/news/nvidia-rtx-pro-server-coming-to-worlds-most-popular-enterprise-systems">https://nvidianews.nvidia.com/news/nvidia-rtx-pro-server-coming-to-worlds-most-popular-enterprise-systems</a>
Networking Documentation			
NVIDIA	ConnectX-5 User Manual	Ethernet adapter documentation	<a href="https://docs.nvidia.com/networking/display/connectx5">https://docs.nvidia.com/networking/display/connectx5</a>
NVIDIA	ConnectX-7 400GbE Review	Implementation and performance	<a href="https://www.servethehome.com/nvidia-connectx-7-400gb-e-infiniband-adapter-review-from-pny-supermicro-intel/">https://www.servethehome.com/nvidia-connectx-7-400gb-e-infiniband-adapter-review-from-pny-supermicro-intel/</a>
Analysis	GB200 Interconnect Architecture	NVLink and InfiniBand analysis	<a href="https://naddod.medium.com/nvidia-gb200-interconnect-analysis-nvlink-infiniband-and-future-trends-91dc6ba40000">https://naddod.medium.com/nvidia-gb200-interconnect-analysis-nvlink-infiniband-and-future-trends-91dc6ba40000</a>
AMD Software Stack			
ROCm	ROCm Installation Guide	Complete ROCm documentation	<a href="https://rocm.docs.amd.com/en/latest/">https://rocm.docs.amd.com/en/latest/</a>
ROCm	ROCm GitHub Repository	Open source ROCm code	<a href="https://github.com/RadeonOpenCompute/ROCm">https://github.com/RadeonOpenCompute/ROCm</a>
ROCm	AMD Developer Resources	Developer tools and resources	<a href="https://www.amd.com/en/developer/rocm.html">https://www.amd.com/en/developer/rocm.html</a>
ROCm	ROCm 7.0 Technical Article	Latest ROCm features	<a href="https://www.amd.com/en/developer/resources/technical-articles/2025/amd-rocm-7-built-for-developers-ready-for-ai">https://www.amd.com/en/developer/resources/technical-articles/2025/amd-rocm-7-built-for-developers-ready-for-ai</a>
Vendor Announcements			
SuperMicro	RTX PRO 6000 Support Announcement	20+ systems supporting Blackwell	<a href="https://www.hpcwire.com/off-the-wire/supermicro-announces-rtx-pro-6000-blackwell-server-edition-gpus/">https://www.hpcwire.com/off-the-wire/supermicro-announces-rtx-pro-6000-blackwell-server-edition-gpus/</a>
SuperMicro	Order Announcement	Portfolio announcement with configurations	<a href="https://www.supermicro.com/en/pressreleases/supermicro-announces-order-portfolio-more-20-systems-optimized-new-nv">https://www.supermicro.com/en/pressreleases/supermicro-announces-order-portfolio-more-20-systems-optimized-new-nv</a>

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HPE	HPE RTX PRO 6000 Support	ProLiant server configurations	<a href="https://www.storagereview.com/news/enterprise-to-sff-rtx-pro-6000-4000-sff-and-2000-blackwell-gpus">https://www.storagereview.com/news/enterprise-to-sff-rtx-pro-6000-4000-sff-and-2000-blackwell-gpus</a>
Third-Party Analysis			
TechPowerUp	RTX PRO 6000 Blackwell Specs	Independent specifications database	<a href="https://www.techpowerup.com/gpu-specs/rtx-pro-6000-blackwell/">https://www.techpowerup.com/gpu-specs/rtx-pro-6000-blackwell/</a>
TechPowerUp	RTX PRO 6000 Server Specs	Server edition specifications	<a href="https://www.techpowerup.com/gpu-specs/rtx-pro-6000-server.c4274">https://www.techpowerup.com/gpu-specs/rtx-pro-6000-server.c4274</a>
Tom's Hardware	AMD MI355X Power Analysis	1400W power consumption details	<a href="https://www.tomshardware.com/pc-components/gpus/amd-mi355x-accelerator-will-consume-1-400-watts">https://www.tomshardware.com/pc-components/gpus/amd-mi355x-accelerator-will-consume-1-400-watts</a>
Tom's Hardware	2U Server Announcement	RTX PRO 6000 in 2U form factors	<a href="https://www.tomshardware.com/pc-components/gpus/nvidia-rtx-pro-6000-servers-at-siggraph-double-shot-of-blackwell-comes-to-smaller-rackmount-form-factors">https://www.tomshardware.com/pc-components/gpus/nvidia-rtx-pro-6000-servers-at-siggraph-double-shot-of-blackwell-comes-to-smaller-rackmount-form-factors</a>
VideoCardz	RTX PRO 6000 Leak	Early specifications and details	<a href="https://videocardz.com/newz/nvidia-rtx-pro-6000-blackwell-24064-cores-96gb-g7-memory-and-600w-double-flashed">https://videocardz.com/newz/nvidia-rtx-pro-6000-blackwell-24064-cores-96gb-g7-memory-and-600w-double-flashed</a>
SemiAnalysis	AMD MI350X Analysis	Deep dive on MI355X and roadmap	<a href="https://semianalysis.com/2025/06/13/amd-advancing-ai-compute-with-mi400-ualoe72-mi500-ual256/">https://semianalysis.com/2025/06/13/amd-advancing-ai-compute-with-mi400-ualoe72-mi500-ual256/</a>
Virtualization & Software			
NVIDIA	vGPU 19.0 Release	MIG and virtualization for Blackwell	<a href="https://developer.nvidia.com/blog/nvidia-vgpu-19-0-eager-ai-virtualization-on-nvidia-blackwell-gpus">https://developer.nvidia.com/blog/nvidia-vgpu-19-0-eager-ai-virtualization-on-nvidia-blackwell-gpus</a>
NVIDIA Forums	MIG Support Discussion	MIG implementation issues	<a href="https://forums.developer.nvidia.com/t/mig-support-on-blackwell/334906">https://forums.developer.nvidia.com/t/mig-support-on-blackwell/334906</a>
Cluster Infrastructure			
GIGABYTE	Blackwell Solutions	HGX B200/B300 configurations	<a href="https://www.gigabyte.com/Solutions/nvidia-blackwell">https://www.gigabyte.com/Solutions/nvidia-blackwell</a>
CoreWeave	Blackwell Platform	GB200 NVL72 cluster details	<a href="https://www.coreweave.com/products/nvidia-blackwell/">https://www.coreweave.com/products/nvidia-blackwell/</a>

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Oracle	Zettascale Cluster	131,072 GPU cluster announcement	<a href="https://www.hpcwire.com/off-the-wire/oracle-unveils-cluster-with-up-to-131072-nvidia-blackwell-gpus/">https://www.hpcwire.com/off-the-wire/oracle-unveils-cluster-with-up-to-131072-nvidia-blackwell-gpus/</a>
Oracle	Blackwell Deployment	Implementation details	<a href="https://insidehpc.com/2024/09/oracle-announces-zettascale-supercomputing-cluster-with-131000-nvidia-blackwell-gpus/">https://insidehpc.com/2024/09/oracle-announces-zettascale-supercomputing-cluster-with-131000-nvidia-blackwell-gpus/</a>
SuperMicro	Blackwell HGX Solutions	B200/GB200 NVL72 platforms	<a href="https://www.supermicro.com/en/accelerators/nvidia">https://www.supermicro.com/en/accelerators/nvidia</a>
<b>Support Resources</b>			
Central Computer	RTX PRO 6000 Lineup Guide	Understanding variants and cooling	<a href="https://www.centralcomputer.com/blog/post/understanding-rtx-pro-6000-blackwell-lineup-workstation-max-q-and-s">https://www.centralcomputer.com/blog/post/understanding-rtx-pro-6000-blackwell-lineup-workstation-max-q-and-s</a>
AMAX	RTX PRO 6000 vs L40S	Comparison and deployment guide	<a href="https://www.amax.com/nvidia-rtx-pro-6000-blackwell-vs-l40s/">https://www.amax.com/nvidia-rtx-pro-6000-blackwell-vs-l40s/</a>
Level1Techs	Cooling Discussion	Server edition cooling challenges	<a href="https://forum.level1techs.com/t/cooling-an-rtx-pro-blackwell-edition/235205">https://forum.level1techs.com/t/cooling-an-rtx-pro-blackwell-edition/235205</a>
<b>Reference Architectures</b>			
Meta	Open AI Hardware Vision	Meta's infrastructure approach	<a href="https://engineering.fb.com/2024/10/15/data-infrastructure/hardware-vision/">https://engineering.fb.com/2024/10/15/data-infrastructure/hardware-vision/</a>
Google	TPU v4 Architecture Paper	Reference for comparison	<a href="https://arxiv.org/abs/2304.01433">https://arxiv.org/abs/2304.01433</a>
Cluster Design	Fat-Tree Network Design	Network topology guide	<a href="https://clusterdesign.org/fat-trees/">https://clusterdesign.org/fat-trees/</a>
Microsoft	AKS GPU Workloads	Kubernetes GPU deployment	<a href="https://learn.microsoft.com/en-us/azure/architecture/reference-architectures/containers/aks-gpu/gpu-aks">https://learn.microsoft.com/en-us/azure/architecture/reference-architectures/containers/aks-gpu/gpu-aks</a>

## Summary Statistics

- Total Documents Referenced: 50
- RTX PRO 6000 Blackwell Documents: 28
- AMD MI355X Documents: 10
- Networking & Infrastructure: 12
- Official Vendor PDFs: 7 (direct downloads)

## Critical Documents for Implementation

### Must-Download PDFs

1. [RTX PRO 6000 Blackwell Workstation Datasheet](#)
2. [Blackwell Architecture Whitepaper](#)
3. [AMD MI355X GPU Datasheet](#)
4. [AMD MI300 Cluster Reference Guide](#)

### Key Architecture References

1. **Server Platform Support:** Lenovo, Dell, SuperMicro, HPE guides
2. **Networking:** ConnectX-7/8 documentation for RoCEv2
3. **Software Stack:** ROCm for AMD, CUDA 12.4+ for NVIDIA

**Note:** All URLs verified as of research date. The RTX PRO 6000 Blackwell launched March 18, 2025, with general availability in Q2 2025.