ThinkSystem NVIDIA RTX PRO 6000 Blackwell Server Edition PCIe Gen5 GPU

Product Guide

The ThinkSystem NVIDIA RTX PRO 6000 Blackwell Server Edition PCIe Gen5 GPU is a powerful Blackwell data center platform for AI and visual computing, delivering breakthrough performance to accelerate a wide array of enterprise data center workloads. Enterprises can configure RTX PRO 6000 Blackwell GPU in high-density server platforms to deliver unmatched levels of compute power, memory capacity, and throughput to power mission-critical AI-enabled applications and accelerate use cases across industries—from healthcare, manufacturing, and geoscience to retail, media, and live broadcast.

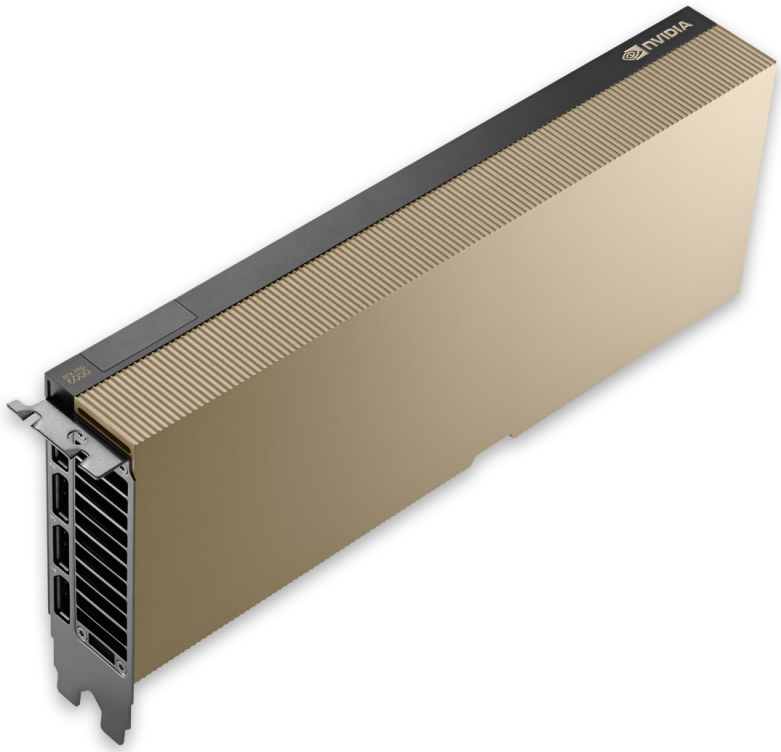


Figure 1. ThinkSystem NVIDIA RTX PRO 6000 Blackwell Server Edition PCIe Gen5 GPU

Did you know?

As part of the NVIDIA OVX server platform, RTX PRO 6000 Blackwell GPU delivers the highest level of graphics, ray tracing, and simulation performance for NVIDIA Omniverse. With 96 GB of GDDR7 memory, even the most intense graphics applications run at the highest level of performance.

Part number information

The following table shows the part numbers for the RTX PRO 6000 Blackwell GPU.

Table 1. Ordering information

Part number	Feature code	Description	NVIDIA part number	Controlled GPU status
4X67B09287	CBK8	ThinkSystem NVIDIA RTX PRO 6000 Blackwell Server Edition 96GB PCIe Gen5 Passive GPU	900-2G153-2700-030	Controlled

The RTX PRO 6000 Blackwell GPU is Controlled which means the GPU is not offered in certain markets, as determined by the US Government.

The PCIe option part numbers includes the following:

- One RTX PRO 6000 Blackwell GPU with full-height (3U) adapter bracket attached
- Documentation

Features

Based on the NVIDIA Blackwell architecture, the RTX PRO 6000 Blackwell GPU is a full-height, full-length (FHFL), dual-slot, 10.5-inch PCIe Gen5 graphics solution. The card is passively cooled and is capable of 600 W maximum board power. Equipped with 96 GB of ultra-fast GDDR7 memory, the RTX PRO 6000 Blackwell GPU provides unparalleled performance and flexibility to accelerate a broad range of use cases —from multimodal AI inference, physical AI, and scientific computing to rendering, 3D graphics, video, and more.

Suitable workloads for the RTX PRO 6000 Blackwell GPU include the following:

- LLM Fine-Tuning, Inference, and Retrieval-Augmented Generation (RAG) workloads with fewer than 70B parameters
- Visual computing workloads such as graphics, video, architecture, and product design
- Workloads such as data analytics, FP32 High Performance Computing

Key features of the RTX PRO 6000 Blackwell GPU:

- Fifth-Generation Tensor cores, FP4 precision
- Fourth-Generation ray-tracing cores
- 96 GB of GDDR7 memory
- 1597 GB/s of memory bandwidth
- 9th Generation NVENC and 6th Generation NVDEC with 4:2:2 support
- PCIe Gen 5 x16 host interfact
- Multi-instance GPU (MIG) support
- Passive thermal design

The ThinkSystem NVIDIA RTX PRO 6000 Blackwell Server Edition PCIe Gen5 GPU offers the following features:

- Fifth-Generation Tensor Cores:

  Deliver up to 5x the performance of the previous generation for LLM inference with support for FP4 precision for faster AI model processing times and reduced memory usage.

- Fourth-Generation Ray-Tracing Cores:

  Double the ray-triangle intersection rate of the previous generation to create photo-realistic, physically accurate scenes and immersive 3D designs with RTX™ Mega Geometry, which enables up to 100x more ray-traced triangles.

- Next-Gen Video Engines:

  Accelerate multimodal AI inference, enhance video production, and power streaming workflows with real-time AI processing. The RTX PRO 6000 Blackwell features four 9th Generation NVENC and four 6th Generation NVDEC engines with support for 4:2:2 encoding and decoding.

- GDDR7 Memory:

  New and improved GDDR7 memory significantly boosts bandwidth and capacity, empowering your applications to run faster and work with larger, more complex datasets. With 96 GB of GPU memory and 1.6 TB/s bandwidth, enterprises can deliver low-latency inference with larger models and render massive 3D scenes.

- NVIDIA Deep Learning Super Sampling (DLSS) 4:

  DLSS is a revolutionary suite of neural rendering technologies that uses AI to boost FPS, reduce latency, and improve image quality. Multi-Frame Generation ensures ultra-smooth frame pacing for lifelike simulations. Experience up to 3x faster frame rates and stunning image quality in supported game engines and 3D rendering applications for smoother, more responsive performance.

- PCIe Gen 5:

  Support for PCIe Gen 5 provides double the bandwidth of PCIe Gen 4, improving data-transfer speeds from CPU memory and unlocking faster performance for data-intensive tasks like AI, data science, and 3D modeling.

- Universal MIG:

  Divide a single RTX PRO 6000 Blackwell into up to four fully isolated instances, each with dedicated resources, allowing for concurrent execution of graphics and AI workloads, optimized GPU utilization, and secure isolation of different applications or users.

Technical specifications

The following table lists the specifications of the RTX PRO 6000 Blackwell GPU.

Table 2. RTX PRO 6000 Blackwell GPU specifications

Feature	Specification
GPU Memory	96 GB GDDR7
Memory Interface	512-bit
Memory Bandwidth	Up to 1597 GB/s
ECC	Yes
NVIDIA CUDA Cores	24,064
NVIDIA Tensor Cores	752 (5th Generation)
NVIDIA RT Cores	188 (4th Generation)
FP32 Single-Precision Performance	120 TFLOPS (peak)
FP4 AI performance	4 PFLOPS (peak)
RT Core performance	355 TFLOPS (peak)
Host Interface	PCIe 5.0 x16
NVLink support	No
Power Consumption	600 W
Multi-Instance GPU (MIG)	Up to 4 MIGs @ 24GB
Thermal Solution	Passive cooling
Form Factor	4.4” H x 10.5” L, Dual Slot, Full Height, Full Length
Display Connectors	4x DisplayPort 2.1b (disabled by default**)
Maximum simultaneous displays	4x 4K displays at 165 Hz using DP 2x 4K displays 360 Hz with DSC using DP 2x 8K displays at 100 Hz with DSC using DP
Encode / Decode Engines	4x NVENC encode, 4x NVDEC decode, 4x JPEG
vGPU software support	NVIDIA vPC/vApps, NVIDIA RTX Virtual Workstation (vWS)
Graphics APIs	DirectX 12, Shader Model 6.6, OpenGL 4.6, Vulkan 1.3

** To enable the DisplayPort ports, see https://developer.nvidia.com/displaymodeselector

Server support

The following tables list the ThinkSystem servers that are compatible.

Table 3. Server support (Part 1 of 5)

Part Number	Description	AMD V3				2S Intel V3/V4						Multi Node V3			1S V3			
		SR635 V3 (7D9H / 7D9G)	SR655 V3 (7D9F / 7D9E)	SR645 V3 (7D9D / 7D9C)	SR665 V3 (7D9B / 7D9A)	ST650 V3 (7D7B / 7D7A)	SR630 V3 (7D72 / 7D73)	SR650 V3 (7D75 / 7D76)	SR630 V4 (7DG8 / 7DG9)	SR650 V4 (7DGC / 7DGD)	SR650a V4 (7DGC / 7DGD)	SD535 V3 (7DD8 / 7DD1)	SD530 V3 (7DDA / 7DD3)	SD550 V3 (7DD9 / 7DD2)	ST45 V3 (7DH4 / 7DH5)	ST50 V3 (7DF4 / 7DF3)	ST250 V3 (7DCF / 7DCE)	SR250 V3 (7DCM / 7DCL)
4X67B09287	ThinkSystem NVIDIA RTX PRO 6000 Blackwell Server Edition 96GB PCIe Gen5 Passive GPU	N	N	N	N	N	N	N	N	N	2	N	N	N	N	N	N	N

Table 4. Server support (Part 2 of 5)

Part Number	Description	4S 8S Intel V3/V4					GPU Rich							Edge					
		SR850 V3 (7D97 / 7D96)	SR860 V3 (7D94 / 7D93)	SR950 V3 (7DC5 / 7DC4)	SR850 V4 (7DJT / 7DJS)	SR860 V4 (7DJQ / 7DJN)	SR670 V2 (7Z22 / 7Z23)	SR675 V3 (7D9Q / 7D9R)	SR680a V3 (7DHE)	SR680a V3 B200 (7DM9)	SR685a V3 (7DHC)	SR780a V3 (7DJ5)	SR680a V4 (7DMK)	SE100 (7DGR)	SE350 (7Z46 / 7D1X)	SE350 V2 (7DA9)	SE360 V2 (7DAM)	SE450 (7D8T)	SE455 V3 (7DBY)
4X67B09287	ThinkSystem NVIDIA RTX PRO 6000 Blackwell Server Edition 96GB PCIe Gen5 Passive GPU	N	N	N	N	N	N	8	N	N	N	N	N	N	N	N	N	N	N

Table 5. Server support (Part 3 of 5)

Part Number	Description	Super Computing							1S Intel V2			2S Intel V2			AMD V1			
		SC750 V4 (7DDJ)	SC777 V4 (7DKA)	SD665 V3 (7D9P)	SD665-N V3 (7DAZ)	SD650 V3 (7D7M)	SD650-I V3 (7D7L)	SD650-N V3 (7D7N)	ST50 V2 (7D8K / 7D8J)	ST250 V2 (7D8G / 7D8F)	SR250 V2 (7D7R / 7D7Q)	ST650 V2 (7Z75 / 7Z74)	SR630 V2 (7Z70 / 7Z71)	SR650 V2 (7Z72 / 7Z73)	SR635 (7Y98 / 7Y99)	SR655 (7Y00 / 7Z01)	SR645 (7D2Y / 7D2X)	SR665 (7D2W / 7D2V)
4X67B09287	ThinkSystem NVIDIA RTX PRO 6000 Blackwell Server Edition 96GB PCIe Gen5 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Table 6. Server support (Part 4 of 5)

Part Number	Description	Dense V2				4S V2		8S	4S V1			1S Intel V1			
		SD630 V2 (7D1K)	SD650 V2 (7D1M)	SD650-N V2 (7D1N)	SN550 V2 (7Z69)	SR850 V2 (7D31 / 7D32)	SR860 V2 (7Z59 / 7Z60)	SR950 (7X11 / 7X12)	SR850 (7X18 / 7X19)	SR850P (7D2F / 2D2G)	SR860 (7X69 / 7X70)	ST50 (7Y48 / 7Y50)	ST250 (7Y45 / 7Y46)	SR150 (7Y54)	SR250 (7Y52 / 7Y51)
4X67B09287	ThinkSystem NVIDIA RTX PRO 6000 Blackwell Server Edition 96GB PCIe Gen5 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Table 7. Server support (Part 5 of 5)

Part Number	Description	2S Intel V1								Dense V1			
		ST550 (7X09 / 7X10)	SR530 (7X07 / 7X08)	SR550 (7X03 / 7X04)	SR570 (7Y02 / 7Y03)	SR590 (7X98 / 7X99)	SR630 (7X01 / 7X02)	SR650 (7X05 / 7X06)	SR670 (7Y36 / 7Y37)	SD530 (7X21)	SD650 (7X58)	SN550 (7X16)	SN850 (7X15)
4X67B09287	ThinkSystem NVIDIA RTX PRO 6000 Blackwell Server Edition 96GB PCIe Gen5 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N

Operating system support

The following table lists the supported operating systems:

Tip: These tables are automatically generated based on data from Lenovo ServerProven.

Table 8. Operating system support for ThinkSystem NVIDIA RTX PRO 6000 Blackwell Server Edition 96GB PCIe Gen5 Passive GPU, 4X67B09287

Operating systems	SR675 V3
Microsoft Windows Server 2025	Y [1]
Ubuntu 24.04 LTS or later with HWE kernel	Y [1]

[1] Only support with 5th Gen AMD EPYC Processor

NVIDIA GPU software

This section lists the NVIDIA software that is available from Lenovo.

- NVIDIA vGPU Software (vApps, vPC, RTX vWS)
- NVIDIA Enterprise Software
- NVIDIA Run:ai
- NVIDIA HPC Compiler Software

NVIDIA vGPU Software (vApps, vPC, RTX vWS)

Lenovo offers the following virtualization software for NVIDIA GPUs:

- **Virtual Applications (vApps)**

  For organizations deploying Citrix XenApp, VMware Horizon RDSH or other RDSH solutions. Designed to deliver PC Windows applications at full performance. NVIDIA Virtual Applications allows users to access any Windows application at full performance on any device, anywhere. This edition is suited for users who would like to virtualize applications using XenApp or other RDSH solutions. Windows Server hosted RDSH desktops are also supported by vApps.

- **Virtual PC (vPC)**

  This product is ideal for users who want a virtual desktop but need great user experience leveraging PC Windows® applications, browsers and high-definition video. NVIDIA Virtual PC delivers a native experience to users in a virtual environment, allowing them to run all their PC applications at full performance.

- **NVIDIA RTX Virtual Workstation (RTX vWS)**

  NVIDIA RTX vWS is the only virtual workstation that supports NVIDIA RTX technology, bringing advanced features like ray tracing, AI-denoising, and Deep Learning Super Sampling (DLSS) to a virtual environment. Supporting the latest generation of NVIDIA GPUs unlocks the best performance possible, so designers and engineers can create their best work faster. IT can virtualize any application from the data center with an experience that is indistinguishable from a physical workstation — enabling workstation performance from any device.

The following license types are offered:

- **Perpetual license**

  A non-expiring, permanent software license that can be used on a perpetual basis without the need to renew. For each perpetual license, customers are also required to purchase a 5-year SUMS support contract. Without this contract, the perpetual license cannot be ordered.

- **Annual subscription**

  A software license that is active for a fixed period as defined by the terms of the subscription license, typically yearly. The subscription includes Support, Upgrade and Maintenance (SUMS) for the duration of the license term.

- **Concurrent User (CCU)**

  A method of counting licenses based on active user VMs. If the VM is active and the NVIDIA vGPU software is running, then this counts as one CCU. A vGPU CCU is independent of the connection to the VM.

The following table lists the ordering part numbers and feature codes.

Table 9. NVIDIA vGPU Software

Part number	Feature code 7S02CTO1WW	NVIDIA part number	Description
NVIDIA vApps offerings			
7S02005TWW	SEGS	711-VAP001+P3CMI00	vAPPS Perpetual License 1CCU + 5 Years SUMS 1CCU
7S020004WW	B1MQ	711-VAP002+P3CMI12	NVIDIA vApps Subscription License 1 Year, 1 CCU
7S020005WW	B1MR	711-VAP002+P3CMI36	NVIDIA vApps Subscription License 3 Years, 1 CCU
7S02003DWW	S832	711-VAP002+P3CMI48	NVIDIA vApps Subscription License 4 Years, 1 CCU
7S02003EWW	S833	711-VAP002+P3CMI60	NVIDIA vApps Subscription License 5 Years, 1 CCU
NVIDIA vPC offerings			
7S02005UWW	SEGT	711-VPC021+P3CMI00	vPC Perpetual License 1CCU + 5 Years SUMS 1CCU
7S02000AWW	B1MW	711-VPC022+P3CMI12	NVIDIA vPC Subscription License 1 Year, 1 CCU
7S02000BWW	B1MX	711-VPC022+P3CMI36	NVIDIA vPC Subscription License 3 Years, 1 CCU
7S02003FWW	S834	711-VPC022+P3CMI48	NVIDIA vPC Subscription License 4 Years, 1 CCU
7S02003GWW	S835	711-VPC022+P3CMI60	NVIDIA vPC Subscription License 5 Years, 1 CCU
NVIDIA RTX vWS offerings			
7S02005VWW	SEGU	711-DWS021+P3CMI00	vWS Perpetual License 1CCU + 5 Years SUMS 1CCU
7S02005WWW	SEGV	711-DWS021+P3EDI00	vWS EDU Perpetual License 1CCU + 5 Years EDU SUMS 1CCU
7S02000GWW	B1N2	711-DWS022+P3CMI12	NVIDIA RTX vWS Subsc Lic 1Yr 1 CCU
7S02000HWW	B1N3	711-DWS022+P3CMI36	NVIDIA RTX vWS Subscription License 3 Years, 1 CCU
7S02000XWW	S6YJ	711-DWS022+P3CMI48	NVIDIA RTX vWS Subscription License 4 Years, 1 CCU
7S02000YWW	S6YK	711-DWS022+P3CMI60	NVIDIA RTX vWS Subscription License 5 Years, 1 CCU
7S02000MWW	B1N7	711-DWS022+P3EDI12	NVIDIA RTX vWS EDU Subscription License 1 Year, 1 CCU
7S02000NWW	B1N8	711-DWS022+P3EDI36	NVIDIA RTX vWS EDU Subscription License 3 Years, 1 CCU
7S02003BWW	S830	711-DWS022+P3EDI48	NVIDIA RTX vWS EDU Subscription License 4 Years, 1 CCU
7S02003CWW	S831	711-DWS022+P3EDI60	NVIDIA RTX vWS EDU Subscription License 5 Years, 1 CCU
NVIDIA RTX vWS Support & Services			
7S020015WW	S6YS	712-DWSA24+P3CMI12	24X7 Support Services for NVIDIA RTX vWS Production SUMS, 1CCU, 1 Year
7S02005CWW	SDZB	712-DWSA24+P3CMI60	24X7 Support Services for NVIDIA RTX vWS Production SUMS 1CCU 5 Years
7S020016WW	S6YT	712-DWSA24+P3EDI12	24X7 Support Services for NVIDIA RTX vWS Production SUMS, 1CCU, EDU, 1 Year
7S02005DWW	SDZC	712-DWSA24+P3EDI60	24X7 Support Services for NVIDIA RTX vWS Production SUMS 1CCU EDU 5 Years
7S02005EWW	SDZD	712-DWSB24+P3CMI12	24X7 Support Services for NVIDIA RTX vWS SUMS 4 CCU 1 Year
7S020017WW	S6YU	712-DWSD24+P3CMI12	24X7 Support Services for NVIDIA RTX vWS Subscription License, 1CCU, 1 Year

NVIDIA Enterprise Software

Lenovo offers the NVIDIA Enterprise cloud-native enterprise software, comprised of NVIDIA AI Enterprise (NVAIE) and NVIDIA Omniverse Enterprise. NVIDIA Enterprise is an end-to-end, cloud-native suite of AI and data analytics software, optimized, certified, and supported by NVIDIA to run on VMware vSphere and bare-metal with NVIDIA-Certified Systems™. It includes key enabling technologies from NVIDIA for rapid deployment, management, and scaling of AI workloads in the modern hybrid cloud.

NVIDIA Enterprise is licensed on a per-GPU basis. NVIDIA Enterprise products can be purchased as either a perpetual license with support services, or as an annual or multi-year subscription.

- The perpetual license provides the right to use the NVIDIA Enterprise software indefinitely, with no expiration. NVIDIA Enterprise with perpetual licenses must be purchased in conjunction with one-year, three-year, or five-year support services. A one-year support service is also available for renewals.
- The subscription offerings are an affordable option to allow IT departments to better manage the flexibility of license volumes. NVIDIA Enterprise software products with subscription includes support services for the duration of the software's subscription license

The features of NVIDIA Enterprise Software are listed in the following table.

Table 10. Features of NVIDIA Enterprise Software

Features	**Supported in NVIDIA Enterprise**
Per GPU Licensing	Yes
Compute Virtualization	Supported
Windows Guest OS Support	No support
Linux Guest OS Support	Supported
Maximum Displays	1
Maximum Resolution	4096 x 2160 (4K)
OpenGL and Vulkan	In-situ Graphics only
CUDA and OpenCL Support	Supported
ECC and Page Retirement	Supported
MIG GPU Support	Supported
Multi-vGPU	Supported
NVIDIA GPUDirect	Supported
Peer-to-Peer over NVLink	Supported
GPU Pass Through Support	Supported
Baremetal Support	Supported
AI and Data Science applications and Frameworks	Supported
Cloud Native ready	Supported

Note: Maximum 10 concurrent VMs per product license

The following table lists the ordering part numbers and feature codes.

Table 11. NVIDIA Enterprise Software

Part number	**Feature code 7S02CTO1WW**	**Description**	**NVIDIA part number**
NVIDIA RTX PRO 6000 Blackwell Server Edition Software Kit			

Part number	Feature code 7S02CTO1WW	Description	NVIDIA part number
7S020063WW	SEP4	NVIDIA RTX PRO 6000 Blackwell Server Edition Software Kit, per GPU, 3 Years	731-AI7027+P3CMI36
7S020064WW	SEP5	NVIDIA RTX PRO 6000 Blackwell Server Edition Software Kit, per GPU, 5 Years	731-AI7027+P3CMI60
AI Enterprise Perpetual License			
7S02001BWW	S6YY	NVIDIA Enterprise (NVIDIA AI Enterprise and NVIDIA Omniverse Enterprise) Perpetual License & Support per GPU, 5 Years	731-AI7004+P3CMI60
7S02001EWW	S6Z1	NVIDIA Enterprise (NVIDIA AI Enterprise and NVIDIA Omniverse Enterprise) Perpetual License & Support per GPU, EDU, 5 Years	731-AI7004+P3EDI60
AI Enterprise Subscription License			
7S02001FWW	S6Z2	NVIDIA Enterprise (NVIDIA AI Enterprise and NVIDIA Omniverse Enterprise) Subscription per GPU, 1 Year	731-AI7003+P3CMI12
7S02005XWW	SENY	NVIDIA Enterprise (NVIDIA AI Enterprise and NVIDIA Omniverse Enterprise) Subscription per GPU, 2 Years	731-AI7003+P3CMI24
7S02001GWW	S6Z3	NVIDIA Enterprise (NVIDIA AI Enterprise and NVIDIA Omniverse Enterprise) Subscription per GPU, 3 Year	731-AI7003+P3CMI36
7S02005YWW	SENZ	NVIDIA Enterprise (NVIDIA AI Enterprise and NVIDIA Omniverse Enterprise) Subscription per GPU, 4 Years	731-AI7003+P3CMI48
7S02001HWW	S6Z4	NVIDIA Enterprise (NVIDIA AI Enterprise and NVIDIA Omniverse Enterprise) Subscription per GPU, 5 Year	731-AI7003+P3CMI60
7S02001JWW	S6Z5	NVIDIA Enterprise (NVIDIA AI Enterprise and NVIDIA Omniverse Enterprise) Subscription per GPU, EDU, 1 Year	731-AI7003+P3EDI12
7S02005ZWW	SEP0	NVIDIA Enterprise (NVIDIA AI Enterprise and NVIDIA Omniverse Enterprise) Subscription per GPU, EDU, 2 Years	731-AI7003+P3EDI24
7S02001KWW	S6Z6	NVIDIA Enterprise (NVIDIA AI Enterprise and NVIDIA Omniverse Enterprise) Subscription per GPU, EDU, 3 Year	731-AI7003+P3EDI36
7S020060WW	SEP1	NVIDIA Enterprise (NVIDIA AI Enterprise and NVIDIA Omniverse Enterprise) Subscription per GPU, EDU, 4 Years	731-AI7003+P3EDI48
7S02001LWW	S6Z7	NVIDIA Enterprise (NVIDIA AI Enterprise and NVIDIA Omniverse Enterprise) Subscription per GPU, EDU, 5 Year	731-AI7003+P3EDI60
Business Critical Support Services for NVIDIA Enterprise			
7S02001MWW	S6Z8	Business Critical Support Services for NVIDIA Enterprise (NVIDIA AI Enterprise and Omniverse Enterprise) per GPU, 1 Year	731-AI7007+P3CMI12
7S02001NWW	S6Z9	Business Critical Support Services for NVIDIA Enterprise (NVIDIA AI Enterprise and Omniverse Enterprise) per GPU, 3 Year	731-AI7007+P3CMI36
7S020061WW	SEP2	Business Critical Support Services for NVIDIA Enterprise (NVIDIA AI Enterprise and Omniverse Enterprise) per GPU, 4 Years	731-AI7007+P3CMI48

Part number	Feature code 7S02CTO1WW	Description	NVIDIA part number
7S02001PWW	S6ZA	Business Critical Support Services for NVIDIA Enterprise (NVIDIA AI Enterprise and Omniverse Enterprise) per GPU, 5 Year	731-AI7007+P3CMI60
7S02001QWW	S6ZB	Business Critical Support Services for NVIDIA Enterprise (NVIDIA AI Enterprise and Omniverse Enterprise) per GPU, EDU, 1 Year	731-AI7007+P3EDI12
7S02001RWW	S6ZC	Business Critical Support Services for NVIDIA Enterprise (NVIDIA AI Enterprise and Omniverse Enterprise) per GPU, EDU, 3 Year	731-AI7007+P3EDI36
7S020062WW	SEP3	Business Critical Support Services for NVIDIA Enterprise (NVIDIA AI Enterprise and Omniverse Enterprise) per GPU, EDU, 4 Years	731-AI7007+P3EDI48
7S02001SWW	S6ZD	Business Critical Support Services for NVIDIA Enterprise (NVIDIA AI Enterprise and Omniverse Enterprise) per GPU, EDU, 5 Year	731-AI7007+P3EDI60

Find more information in the NVIDIA Enterprise Sizing Guide.

NVIDIA Run:ai

NVIDIA Run:ai is an enterprise platform for AI workloads and GPU orchestration, accelerating AI operations with dynamic orchestration across the AI life cycle, maximizing GPU efficiency, and integrating seamlessly into hybrid AI infrastructure. The platform provides features such as AI-native workload orchestration, unified AI infrastructure management, flexible AI deployment, and open architecture, supporting public clouds, private clouds, hybrid environments, and on-premises data centers.

For more information, see the NVIDIA Run:ai product page:
https://www.nvidia.com/en-us/software/run-ai/

Table 12. NVIDIA Run:ai

Part number	Feature 7S02CTO1WW	Description	NVIDIA part number
NVIDIA Run:ai for RTX PRO 6000 Blackwell Server Edition			
7S020065WW	SEP6	NVIDIA Run:ai for RTX PRO 6000 Blackwell Server Edition, per GPU, Self-Hosted, 3 Years	744-RA7005+P3CMI36
7S020066WW	SEP7	NVIDIA Run:ai for RTX PRO 6000 Blackwell Server Edition, per GPU, Self-Hosted, 5 Years	744-RA7005+P3CMI60
7S020067WW	SEP8	NVIDIA Run:ai for RTX PRO 6000 Blackwell Server Edition, per GPU, SaaS, 3 Years	744-RA7006+P3CMI36
7S020068WW	SEP9	NVIDIA Run:ai for RTX PRO 6000 Blackwell Server Edition, per GPU, SaaS, 5 Years	744-RA7006+P3CMI60
Software subscription			
7S02004UWW	SDYT	NVIDIA Run:ai Subscription per GPU 1 Year	744-RA7001+P3CMI12
7S02004XWW	SDYW	NVIDIA Run:ai Subscription per GPU 3 Years	744-RA7001+P3CMI36
7S020050WW	SDYZ	NVIDIA Run:ai Subscription per GPU 5 Years	744-RA7001+P3CMI60
7S02004VWW	SDYU	NVIDIA Run:ai Subscription per GPU EDU 1 Year	744-RA7001+P3EDI12
7S02004YWW	SDYX	NVIDIA Run:ai Subscription per GPU EDU 3 Years	744-RA7001+P3EDI36
7S020051WW	SDZ0	NVIDIA Run:ai Subscription per GPU EDU 5 Years	744-RA7001+P3EDI60
7S02004WWW	SDYV	NVIDIA Run:ai Subscription per GPU INC 1 Year	744-RA7001+P3INI12

Part number	Feature 7S02CTO1WW	Description	NVIDIA part number
7S02004ZWW	SDYY	NVIDIA Run:ai Subscription per GPU INC 3 Years	744-RA7001+P3INI36
7S020052WW	SDZ1	NVIDIA Run:ai Subscription per GPU INC 5 Years	744-RA7001+P3INI60
Support Services subscription			
7S020053WW	SDZ2	24x7 Support Services for NVIDIA Run:ai Subscription per GPU 1 Year	744-RA7002+P3CMI12
7S020056WW	SDZ5	24x7 Support Services for NVIDIA Run:ai Subscription per GPU 3 Years	744-RA7002+P3CMI36
7S020059WW	SDZ8	24x7 Support Services for NVIDIA Run:ai Subscription per GPU 5 Years	744-RA7002+P3CMI60
7S020054WW	SDZ3	24x7 Support Services for NVIDIA Run:ai Subscription per GPU EDU 1 Year	744-RA7002+P3EDI12
7S02005AWW	SDZ9	24x7 Support Services for NVIDIA Run:ai Subscription per GPU EDU 5 Years	744-RA7002+P3EDI60
7S020057WW	SDZ6	24x7 Support Services for NVIDIA Run:ai Subscription per GPU EDU 3 Years	744-RA7002+P3EDI36
7S020055WW	SDZ4	24x7 Support Services for NVIDIA Run:ai Subscription per GPU INC 1 Year	744-RA7002+P3INI12
7S020058WW	SDZ7	24x7 Support Services for NVIDIA Run:ai Subscription per GPU INC 3 Years	744-RA7002+P3INI36
7S02005BWW	SDZA	24x7 Support Services for NVIDIA Run:ai Subscription per GPU INC 5 Years	744-RA7002+P3INI60

NVIDIA HPC Compiler Software

Table 13. NVIDIA HPC Compiler

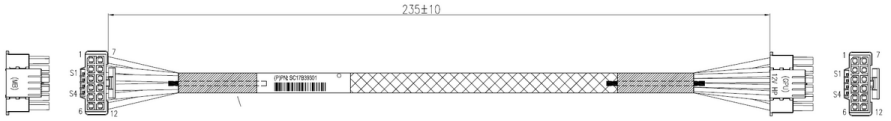
Part number	Feature code 7S09CTO6WW	Description
HPC Compiler Support Services		
7S090014WW	S924	NVIDIA HPC Compiler Support Services, 1 Year
7S090015WW	S925	NVIDIA HPC Compiler Support Services, 3 Years
7S09002GWW	S9UQ	NVIDIA HPC Compiler Support Services, 5 Years
7S090016WW	S926	NVIDIA HPC Compiler Support Services, EDU, 1 Year
7S090017WW	S927	NVIDIA HPC Compiler Support Services, EDU, 3 Years
7S09002HWW	S9UR	NVIDIA HPC Compiler Support Services, EDU, 5 Years
7S090018WW	S928	NVIDIA HPC Compiler Support Services - Additional Contact, 1 Year
7S09002JWW	S9US	NVIDIA HPC Compiler Support Services - Additional Contact, 3 Years
7S09002KWW	S9UT	NVIDIA HPC Compiler Support Services - Additional Contact, 5 Years
7S090019WW	S929	NVIDIA HPC Compiler Support Services - Additional Contact, EDU, 1 Year
7S09002LWW	S9UU	NVIDIA HPC Compiler Support Services - Additional Contact, EDU, 3 Years
7S09002MWW	S9UV	NVIDIA HPC Compiler Support Services - Additional Contact, EDU, 5 Years
HPC Compiler Premier Support Services		
7S09001AWW	S92A	NVIDIA HPC Compiler Premier Support Services, 1 Year
7S09002NWW	S9UW	NVIDIA HPC Compiler Premier Support Services, 3 Years
7S09002PWW	S9UX	NVIDIA HPC Compiler Premier Support Services, 5 Years

Part number	Feature code 7S09CTO6WW	Description
7S09001BWW	S92B	NVIDIA HPC Compiler Premier Support Services, EDU, 1 Year
7S09002QWW	S9UY	NVIDIA HPC Compiler Premier Support Services, EDU, 3 Years
7S09002RWW	S9UZ	NVIDIA HPC Compiler Premier Support Services, EDU, 5 Years
7S09001CWW	S92C	NVIDIA HPC Compiler Premier Support Services - Additional Contact, 1 Year
7S09002SWW	S9V0	NVIDIA HPC Compiler Premier Support Services - Additional Contact, 3 Years
7S09002TWW	S9V1	NVIDIA HPC Compiler Premier Support Services - Additional Contact, 5 Years
7S09001DWW	S92D	NVIDIA HPC Compiler Premier Support Services - Additional Contact, EDU, 1 Year
7S09002UWW	S9V2	NVIDIA HPC Compiler Premier Support Services - Additional Contact, EDU, 3 Years
7S09002VWW	S9V3	NVIDIA HPC Compiler Premier Support Services - Additional Contact, EDU, 5 Years

Auxiliary power cables

The RTX PRO 6000 Blackwell GPU option part number does not ship with auxiliary power cables. Cables are server-specific due to length requirements. For CTO orders, auxiliary power cables are derived by the configurator. For field upgrades, cables will need to be ordered separately as listed in the table below.

Table 14. Auxiliary power cables for RTX PRO 6000 Blackwell GPU

Auxiliary power cable needed with the SR675 V3
235mm 16-pin (2x6+4) cable **Option**: 4X97A84510, ThinkSystem SR675 V3 Supplemental Power Cable for H100 GPU Option **Feature**: BSD2 **SBB**: SBB7A65299 **Base**: SC17B39301 **FRU**: 03LE554 

Regulatory approvals

The RTX PRO 6000 Blackwell GPU has the following regulatory approvals:

- RCM
- BSMI
- CE
- FCC
- ICES
- KCC
- cUL, UL
- VCCI

Operating environment

The RTX PRO 6000 Blackwell GPU has the following operating characteristics:

- Ambient temperature
  - Operational: 0°C to 50°C (-5°C to 55°C for short term*)
  - Storage: -40°C to 75°C
- Relative humidity:
  - Operational: 5-85% (5-93% short term*)
  - Storage: 5-95%

* A period not more than 96 hours consecutive, not to exceed 15 days per year.

Warranty

One year limited warranty. When installed in a Lenovo server, the GPU assumes the server's base warranty and any warranty upgrades.

Related publications

For more information, refer to these documents:

- ThinkSystem and ThinkAgile GPU Summary:
  https://lenovopress.lenovo.com/lp0768-thinksystem-thinkagile-gpu-summary
- ServerProven compatibility:
  https://serverproven.lenovo.com/
- RTX PRO 6000 Blackwell GPU product page:
  https://www.nvidia.com/en-us/data-center/rtx-pro-6000-blackwell-server-edition/

Related product families

Product families related to this document are the following:

- GPU adapters

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