

# ThinkSystem NVIDIA RTX PRO 4500 Blackwell Workstation Edition PCIe GPU

## Product Guide

The NVIDIA RTX PRO 4500 Blackwell Workstation Edition redefines professional workflows with groundbreaking AI acceleration, neural rendering, and 32GB of ultra-fast memory. Built on the NVIDIA Blackwell architecture, it features 5th Gen Tensor Cores, 4th Gen RT Cores, and advanced CUDA cores to power next-generation creative, engineering, and scientific applications. Professionals can securely deploy agentic AI systems using NVIDIA NemoClaw, run physics simulations, and render cinematic-quality 3D worlds, all while handling massive datasets and complex workloads with ease.



Figure 1. ThinkSystem NVIDIA RTX PRO 4500 Blackwell Workstation Edition PCIe Gen5 GPU

### Did you know?

With 5th Gen Tensor cores, the RTX PRO 4500 GPU deliver up to 3x the performance of the previous generation and support for FP4 precision for faster AI model processing times with reduced memory usage, enabling local fine-tuning of LLMs and generative AI.

## Part number information

The following table shows the part numbers for the RTX PRO 4500 GPU.

Table 1. Ordering information

Part number	Feature code	Description	NVIDIA part number	Controlled GPU status
4X67B09230	CC4U	ThinkSystem NVIDIA RTX PRO 4500 Blackwell Workstation Edition 32GB PCIe Gen5 Active GPU	900-5G147-2250-000	Controlled

The RTX PRO 4500 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 4500 GPU with full-height (3U) adapter bracket attached
- Documentation

## Features

The ThinkSystem NVIDIA RTX PRO 4500 Blackwell Workstation Edition PCIe Gen5 GPU delivers a versatile platform to accelerate Deep Learning, Graphics and video processing applications. It is a full-height full-length, dual-slot card that features 32 GB of GDDR7 memory, PCIe Gen5 x16 connectivity at a 165W power envelope with active cooling.

Powered by the NVIDIA Blackwell Architecture, RTX PRO 4500 GPU provides revolutionary multi-precision performance to accelerate deep learning and machine learning training and inference, AI-audio and video effects, data analytics, cloud gaming, rendering, video transcoding, virtual workstations, virtual desktop, and many other workloads.

As part of NVIDIA AI, the RTX PRO 4500 GPU supports all AI frameworks and neural network models, delivering dramatic performance and efficiency that maximizes the utility of at-scale deployments.

Key features:

- Enhanced streaming multiprocessors (SMs) built for neural shaders
- 5th Gen Tensor Cores support FP4 precision, DLSS 4 Multi Frame Generation
- 4th Gen Ray Tracing Cores built for detailed geometry
- 32 GB of GDDR7 memory
- 896 GB/s of memory bandwidth
- 9th Gen NVENC and 6th Gen NVDEC with 4:2:2 support
- PCIe Gen 5
- Four Display Port 2.1b connectors
- AI management processor

The NVIDIA Blackwell architecture combines breakthrough AI, ray tracing, and neural rendering technology, with massive performance and memory improvements to drive cutting-edge professional creative, design, and engineering workflows and power the next decade of innovation.

- NVIDIA Blackwell Streaming Multiprocessor: The new SM features increased processing throughput, and new neural shaders that integrate neural networks inside of programmable shaders to drive the next decade of AI-augmented graphics innovations.
- 5th Gen Tensor Cores: Deliver up to 3x the performance of the previous generation and support for FP4 precision for faster AI model processing times with reduced memory usage, enabling local fine-

tuning of LLMs and generative AI.

- 4th Gen 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: Enhance video conferencing, video production, and streaming workflows with real-time AI processing. Ninth-generation NVENC and sixth-generation NVDEC engines provide support for 4:2:2 encoding and decoding to explore a new realm of high-resolution video workflows.
- 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 32 GB of GPU memory and 896 GB/s bandwidth, tackle massive 3D and AI projects, fine-tune AI models locally, explore large-scale VR environments, and drive larger multi-app workflows.
- DLSS 4: 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.
- DisplayPort 2.1b: Achieve unparalleled visual clarity and performance, driving high-resolution displays at up to 8K at 240 Hz and 16K at 60 Hz. Increased bandwidth enables seamless multi-monitor setups, ideal for multitasking and collaboration, while HDR and higher color depth support ensures superior color accuracy for precision work, such as video editing, 3D design, and live media.

## Technical specifications

The following table lists the specifications of the RTX PRO 4500 GPU.

Table 2. ThinkSystem NVIDIA RTX PRO 4500 Blackwell Workstation Edition PCIe Gen5 GPU specifications

Feature	Specification
GPU Architecture	NVIDIA Blackwell Architecture
NVIDIA CUDA Cores	10,496
NVIDIA Tensor Cores	328 (5th Generation)
NVIDIA RT Cores	82 (4th Generation)
GPU Memory	32 GB GDDR7
Memory Interface	256-bit
Memory Bandwidth	Up to 800 GB/s
ECC	Yes
FP4 Tensor Core (AI TOPS )	1617 TFLOPS (peak, with sparsity)
FP32 Single-Precision Performance	51 TFLOPS (peak)
RT Core performance	153 TFLOPS (peak)
Host Interface	PCIe 5.0 x16
NVLink support	No support
Power Consumption	200 W
Multi-Instance GPU (MIG)	No support
Thermal Solution	Active 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 3840 x 2160 @ 165 Hz 2x 7680 x 4320 @ 100 Hz
Encode / Decode Engines	2x NVENC encode, 2x NVDEC decode
vGPU software support	No support
Graphics APIs	DirectX 12, Shader Model 6.6, OpenGL 4.6, Vulkan 1.4
Compute APIs	CUDA 12.8, OpenCL 3.0, DirectCompute

\*\* 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)
4X67B09230	ThinkSystem NVIDIA RTX PRO 4500 Blackwell Workstation Edition 32GB PCIe Gen5 Active GPU	N	3	N	3	N	N	N	N	N	N	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)
4X67B09230	ThinkSystem NVIDIA RTX PRO 4500 Blackwell Workstation Edition 32GB PCIe Gen5 Active GPU	N	N	N	N	N	N	N	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)
4X67B09230	ThinkSystem NVIDIA RTX PRO 4500 Blackwell Workstation Edition 32GB PCIe Gen5 Active 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)
4X67B09230	ThinkSystem NVIDIA RTX PRO 4500 Blackwell Workstation Edition 32GB PCIe Gen5 Active 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)
4X67B09230	ThinkSystem NVIDIA RTX PRO 4500 Blackwell Workstation Edition 32GB PCIe Gen5 Active GPU	N	N	N	N	N	N	N	N	N	N	N	N

## NVIDIA GPU software

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

- [NVIDIA Enterprise Software](#)
- [NVIDIA Run:ai](#)
- [NVIDIA HPC Compiler Software](#)

## 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 8. 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 9. NVIDIA Enterprise Software

Part number	Feature code 7S02CTO1WW	Description	NVIDIA part number
<b>AI Enterprise Perpetual License</b>			
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
<b>AI Enterprise Subscription License</b>			
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
<b>Business Critical Support Services for NVIDIA Enterprise</b>			
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 10. NVIDIA Run:ai

Part number	Feature 7S02CTO1WW	Description	NVIDIA part number
<b>Software subscription</b>			
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
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
<b>Support Services subscription</b>			
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

<b>Part number</b>	<b>Feature 7S02CTO1WW</b>	<b>Description</b>	<b>NVIDIA part number</b>
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 11. NVIDIA HPC Compiler

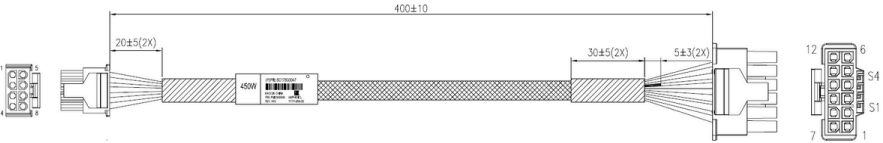
<b>Part number</b>	<b>Feature code 7S09CTO6WW</b>	<b>Description</b>
<b>HPC Compiler Support Services</b>		
7S090014WW	S924	NVIDIA HPC Compiler Support Services, 1 Year
7S090015WW	S925	NVIDIA HPC Compiler Support Services, 3 Years
7S09002GWW	S9UQ	NVIDIA HPC Compiler Support Services, 5 Years
7S090016WW	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
<b>HPC Compiler Premier Support Services</b>		
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
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

Part number	Feature code <b>7S09CTO6WW</b>	Description
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 4500 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 12. Auxiliary power cables for RTX PRO 4500 GPU

Auxiliary power cable needed with the SR655 V3, SR665 V3
 <p><b>400mm 16-pin (2x6+4) cable</b>  <b>Feature:</b> BRWK  <b>SBB:</b> SBB7A66338  <b>Base:</b> SC17B33047  <b>FRU:</b> 03KM846  <b>Option:</b>  SR655 V3: 4X67A86438, ThinkSystem SR655 V3 GPU Enablement Kit*  SR665 V3: 4X67A85856, ThinkSystem SR665 V3 GPU Full Length Thermal Option Kit*</p> <p>* The option part numbers are for thermal kits and include other components needed to install the GPU. See the server product guide for details.</p>

## Regulatory approvals

The RTX PRO 4500 GPU has the following regulatory approvals:

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

## Operating environment

The RTX PRO 4500 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>
- ThinkSystem GPU Comparison:  
<https://lenovopress.lenovo.com/lp2265-lenovo-thinksystem-gpu-comparison>
- ServerProven compatibility:  
<https://serverproven.lenovo.com/>
- RTX PRO 4500 GPU product page:  
<https://www.nvidia.com/en-us/products/workstations/professional-desktop-gpus/rtx-pro-4500/>

## Related product families

Product families related to this document are the following:

- [GPU adapters](#)

## Notices

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