



## ThinkSystem and ThinkAgile GPU Summary Reference Information

Lenovo ThinkSystem servers support GPU technology to accelerate different computing workloads, maximize performance for graphic design, virtualization, artificial intelligence and high performance computing applications in Lenovo servers. This document summarizes the features of the GPUs available for supported ThinkSystem servers and ThinkAgile HX, VX and MX systems.

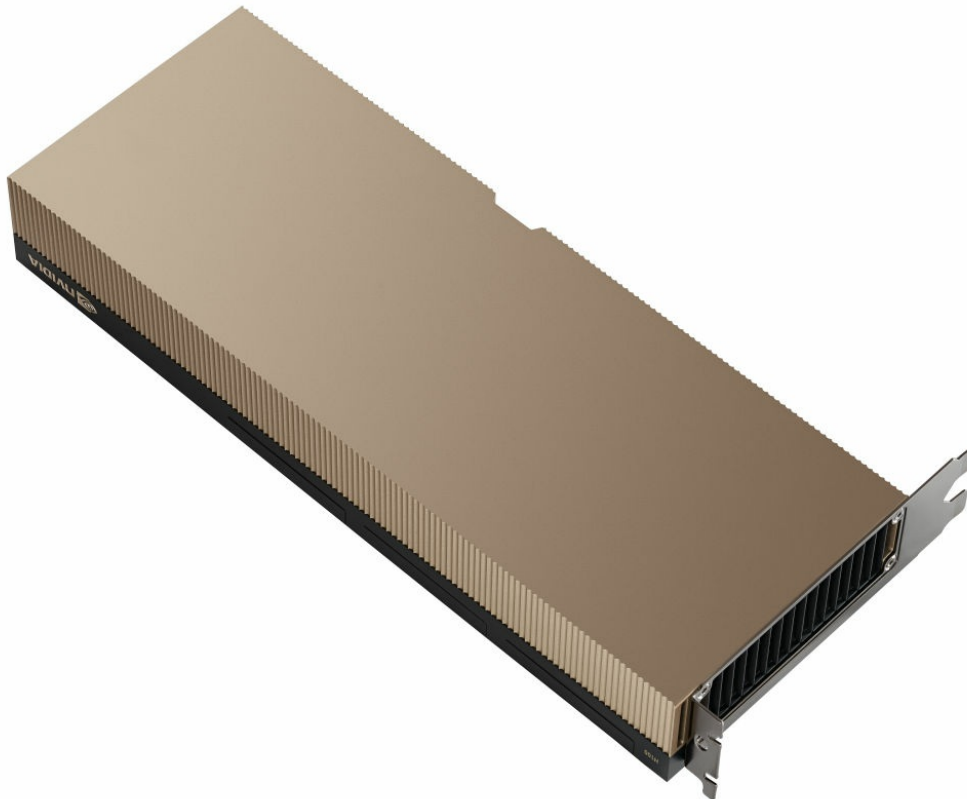


Figure 1. ThinkSystem NVIDIA H100 80GB PCIe Gen5 Passive GPU

The following table shows GPUs families and the target workloads

Table 1. GPU families and workloads

Form factor	NVIDIA AI and Virtualization	Intel AI and Virtualization	AMD AI and Virtualization	Qualcomm AI and Virtualization	NVIDIA 3D Graphics
<b>SXM/OAM</b>	H200 SXM5 H100 SXM5 H200 SXM5 A100 SXM		Instinct MI300X		
<b>Dual slot</b>	H100 & H100 NVL L40S L40 A30 A16		Instinct MI210		A40 RTX 6000 Ada RTX 4500 Ada RTX A2000
<b>Single slot</b>	L4 A10 A2	Flex 140 Flex 170		Cloud AI 100	T1000 T400

## Part numbers

The following tables list the ordering information for GPUs and accelerators available from Lenovo:

- [Part numbers: GPUs for AI and Virtualization](#)
- [Part numbers: GPUs for Graphics and Visualization](#)

In the Controlled GPU column, if a GPU is listed as Controlled, that means the GPU is not offered in certain markets, as determined by the US Government. If a GPU is listed as No, that means the GPU is not controlled and is available in all markets.

Table 2. GPUs for AI and Virtualization

Part number	Feature code	Description	Controlled GPU
Onboard GPUs (SXM or OAM form factors)			
CTO only	C1HK	ThinkSystem AMD MI300X 192GB 750W 8-GPU Board	Controlled
CTO only	C1HM	ThinkSystem NVIDIA HGX H200 141GB 700W 8-GPU Board	Controlled
CTO only	C1HL	ThinkSystem NVIDIA HGX H100 80GB 700W 8-GPU Board	Controlled
CTO only	BQQV	ThinkSystem NVIDIA H100 SXM5 700W 80G HBM3 GPU Board	Controlled
CTO only	BUBB	ThinkSystem NVIDIA H100 SXM5 700W 94G HBM2e GPU Board	Controlled
CTO only	BHT3	ThinkSystem NVIDIA HGX A100 80GB 500W 4-GPU Board	Controlled
PCIe double-width (double-slot) GPUs			
4X67A81102	BP04	ThinkSystem AMD Instinct MI210 PCIe Gen4 Passive Accelerator	Controlled
4X67A89325	BXAK	ThinkSystem NVIDIA H100 NVL 94GB PCIe Gen5 Passive GPU	Controlled
4X67A84823	BT87	ThinkSystem NVIDIA L40 48GB PCIe Gen4 Passive GPU	Controlled
4X67A90669	BYFH	ThinkSystem NVIDIA L40S 48GB PCIe Gen4 Passive GPU	Controlled
4X67A76581	BQZR	ThinkSystem NVIDIA A30 24GB PCIe Gen4 Passive GPU w/o CEC	Controlled
4X67A76727	BNFE	ThinkSystem NVIDIA A16 64GB Gen4 PCIe Passive GPU	No
PCIe single-width (single-slot) GPUs			
4X67A86560	BVVC	ThinkSystem AMD Alveo V70 Datacenter Accelerator Adapter	Controlled
4X67A86130	BU00	ThinkSystem Intel Flex 140 12GB Gen4 Passive GPU	No
4X67A86131	BU01	ThinkSystem Intel Flex 170 16GB Gen4 Passive GPU	No
4X67A84824	BS2C	ThinkSystem NVIDIA L4 24GB PCIe Gen4 Passive GPU	Controlled
4X67A71311	BFTZ	ThinkSystem NVIDIA A10 24GB PCIe Gen4 Passive GPU	No
4X67A81547	BQZT	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	No
4X67A84009	BS49	ThinkSystem Qualcomm Cloud AI 100	Controlled

Table 3. GPUs for Graphics and Visualization

Part number	Feature code	Description	Controlled GPU
PCIe double-width (double-slot) GPUs			
4X67A89324	C2DP	ThinkSystem NVIDIA RTX 6000 Ada 48GB PCIe Active GPU	Controlled
4X67A96491	C4RX	ThinkSystem NVIDIA RTX 4500 Ada 24GB PCIe Active GPU	Controlled
4X67A72593	BQZQ	ThinkSystem NVIDIA A40 48GB PCIe Gen4 Passive GPU w/o CEC	Controlled
4X67A76720	BMT9	ThinkSystem NVIDIA RTX A2000 12GB PCIe Active GPU	No
PCIe single-width (single-slot) GPUs			
4X67A79777	BMXD	ThinkSystem NVIDIA T1000 8GB PCIe Active GPU	No
4X67A79778	BMXE	ThinkSystem NVIDIA T400 4GB PCIe Active GPU	No

## ThinkSystem server support

The following tables list the ThinkSystem servers that are compatible.

Table 4. ThinkSystem server support (Part 1 of 4)

Part Number	Description	AMD V3				2S Intel V3/V4				4S 8S Intel V3				Multi Node V3/V4				GPU Rich			
		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)	SR850 V3 (7D97 / 7D96)	SR860 V3 (7D94 / 7D93)	SR950 V3 (7DC5 / 7DC4)	SD535 V3 (7DD8 / 7DD1)	SD530 V3 (7DDA / 7DD3)	SD550 V3 (7DD9 / 7DD2)	SD520 V4 (7DFZ / 7DFY)	SR670 V2 (7Z22 / 7Z23)	SR675 V3 (7D9Q / 7D9R)	SR680a V3 (7DHE)	SR685a V3 (7DHC)	SR780a V3 (7DJ5)
<b>GPUs for AI and Virtualization - Onboard GPUs</b>																					
C1HK	ThinkSystem AMD MI300X 192GB 750W 8-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1 <sup>1</sup>	1 <sup>1</sup>	N	
C1HM	ThinkSystem NVIDIA HGX H200 141GB 700W 8-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1 <sup>1</sup>	1 <sup>1</sup>	N	
C1HL	ThinkSystem NVIDIA HGX H100 80GB 700W 8-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1 <sup>1</sup>	1 <sup>1</sup>	N	
BQQV	ThinkSystem NVIDIA H100 SXM5 700W 80G HBM3 GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1 <sup>2</sup>	N	N	N	
BUBB	ThinkSystem NVIDIA H100 SXM5 700W 94G HBM2e GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
BHT3	ThinkSystem NVIDIA HGX A100 80GB 500W 4-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1 <sup>2</sup>	N	N	N	N	
<b>GPUs for AI and Virtualization - PCIe double-width (double-slot) GPUs</b>																					
4X67A81102	ThinkSystem AMD Instinct MI210 PCIe Gen4 Passive Accelerator	N	3	N	3	N	N	3	N	2	4	N	N	N	N	8	8	N	N	N	
4X67A89325	ThinkSystem NVIDIA H100 NVL 94GB PCIe Gen5 Passive GPU	N	3	N	3	N	N	3	N	N	N	N	N	N	N	8	8	N	N	N	
4X67A84823	ThinkSystem NVIDIA L40 48GB PCIe Gen4 Passive GPU	N	3	N	3	N	N	3	N	2	4	N	N	N	N	8	8	N	N	N	
4X67A90669	ThinkSystem NVIDIA L40S 48GB PCIe Gen4 Passive GPU	N	3	N	3	N	N	3	N	N	N	N	N	N	N	8	8	N	N	N	
4X67A76581	ThinkSystem NVIDIA A30 24GB PCIe Gen4 Passive GPU w/o CEC	N	3	N	3	N	N	3	N	N	N	N	N	N	N	8	8	N	N	N	
4X67A76727	ThinkSystem NVIDIA A16 64GB Gen4 PCIe Passive GPU	N	3	N	3	N	N	3	N	N	N	N	N	N	N	N	N	N	N	N	

Part Number	Description	AMD V3				2S Intel V3/V4				4S 8S Intel V3				Multi Node V3/V4				GPU Rich			
		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)	SR850 V3 (7D97 / 7D96)	SR860 V3 (7D94 / 7D93)	SR950 V3 (7DC5 / 7DC4)	SD535 V3 (7DD8 / 7DD1)	SD530 V3 (7DDA / 7DD3)	SD550 V3 (7DD9 / 7DD2)	SD520 V4 (7DFZ / 7DFY)	SR670 V2 (7Z22 / 7Z23)	SR675 V3 (7D9Q / 7D9R)	SR680a V3 (7DHE)	SR685a V3 (7DHC)	SR780a V3 (7DJ6)
<b>GPUs for AI and Virtualization - PCIe single-width (single-slot) GPUs</b>																					
4X67A86560	ThinkSystem AMD Alveo V70 Datacenter Accelerator Adapter	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
4X67A86130	ThinkSystem Intel Flex 140 12GB Gen4 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	1	2	N	N	N	N	N	N	
4X67A86131	ThinkSystem Intel Flex 170 16GB Gen4 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
4X67A84824	ThinkSystem NVIDIA L4 24GB PCIe Gen4 Passive GPU	4	5	3	5	8	3	8	N	4	8	N	1	1	2	N	8	8	N	N	
4X67A71311	ThinkSystem NVIDIA A10 24GB PCIe Gen4 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
4X67A81547	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	5	8	5	8	8	3	8	N	N	N	N	N	N	N	N	N	N	N	N	
4X67A84009	ThinkSystem Qualcomm Cloud AI 100	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
<b>GPUs for Graphics and Visualization - PCIe double-width (double-slot) GPUs</b>																					
4X67A89324	ThinkSystem NVIDIA RTX 6000 Ada 48GB PCIe Active GPU	N	3	N	3	N	N	2	N	N	N	N	N	N	N	N	N	N	N	N	
4X67A96491	ThinkSystem NVIDIA RTX 4500 Ada 24GB PCIe Active GPU	N	3	N	3	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
4X67A72593	ThinkSystem NVIDIA A40 48GB PCIe Gen4 Passive GPU w/o CEC	N	3	N	3	N	N	3	N	N	N	N	N	N	N	8 <sup>3</sup>	8	N	N	N	
4X67A76720	ThinkSystem NVIDIA RTX A2000 12GB PCIe Active GPU	N	3	N	3	4	N	3	N	N	N	N	N	N	N	N	N	N	N	N	
<b>GPUs for Graphics and Visualization - PCIe single-width (single-slot) GPUs</b>																					
4X67A79777	ThinkSystem NVIDIA T1000 8GB PCIe Active GPU	N	N	N	N	N	N	8 <sup>4</sup>	N	N	N	N	N	N	N	N	N	N	N	N	
4X67A79778	ThinkSystem NVIDIA T400 4GB PCIe Active GPU	N	N	N	N	N	N	8	N	N	N	N	N	N	N	N	N	N	N	N	

1. Contains 8 separate GPUs connected via high-speed interconnects

2. Contains 4 separate GPUs connected via high-speed interconnects
3. DisplayPort ports not supported and are disabled
4. Windows does not support more than 16 displays attached to the server

Table 5. ThinkSystem server support (Part 2 of 4)

Part Number	Description	1S V3			Edge				Super Computing				1S Intel V2			2S Intel V2			
		ST150 V3 (7DF4 / 7DF3)	ST250 V3 (7DCF / 7DCE)	SR250 V3 (7DCM / 7DCL)	SE350 (7Z46 / 7D1X)	SE350 V2 (7DA9)	SE360 V2 (7DAM)	SE450 (7D8T)	SE455 V3 (7DBY)	SD665 V3 (7D9P)	SD665-N V3 (7DAZ)	SD650 V3 (7D7M)	SD650-I V3 (7D7L)	SD650-N V3 (7D7N)	ST150 V2 (7D8K / 7D8J)	ST250 V2 (7D8G / 7D8F)	SR250 V2 (7D7R / 7D7Q)	ST650 V2 (7Z75 / 7Z74)	SR630 V2 (7Z70 / 7Z71)
<b>GPUs for AI and Virtualization - Onboard GPUs</b>																			
C1HK	ThinkSystem AMD MI300X 192GB 750W 8-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
C1HM	ThinkSystem NVIDIA HGX H200 141GB 700W 8-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
C1HL	ThinkSystem NVIDIA HGX H100 80GB 700W 8-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BQQV	ThinkSystem NVIDIA H100 SXM5 700W 80G HBM3 GPU Board	N	N	N	N	N	N	N	N	N	1 <sup>1</sup>	N	N	1 <sup>1</sup>	N	N	N	N	N
BUBB	ThinkSystem NVIDIA H100 SXM5 700W 94G HBM2e GPU Board	N	N	N	N	N	N	N	N	N	1 <sup>1</sup>	N	N	1 <sup>1</sup>	N	N	N	N	N
BHT3	ThinkSystem NVIDIA HGX A100 80GB 500W 4-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
<b>GPUs for AI and Virtualization - PCIe double-width (double-slot) GPUs</b>																			
4X67A81102	ThinkSystem AMD Instinct MI210 PCIe Gen4 Passive Accelerator	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	3
4X67A89325	ThinkSystem NVIDIA H100 NVL 94GB PCIe Gen5 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A84823	ThinkSystem NVIDIA L40 48GB PCIe Gen4 Passive GPU	N	N	N	N	N	N	2	2	N	N	N	N	N	N	N	N	N	3
4X67A90669	ThinkSystem NVIDIA L40S 48GB PCIe Gen4 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A76581	ThinkSystem NVIDIA A30 24GB PCIe Gen4 Passive GPU w/o CEC	N	N	N	N	N	N	2 <sup>2</sup>	N	N	N	N	N	N	N	N	N	N	3
4X67A76727	ThinkSystem NVIDIA A16 64GB Gen4 PCIe Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	3
<b>GPUs for AI and Virtualization - PCIe single-width (single-slot) GPUs</b>																			

Part Number	Description	1S V3			Edge				Super Computing				1S Intel V2			2S Intel V2			
		ST50 V3 (7DF4 / 7DF3)	ST250 V3 (7DCF / 7DCE)	SR250 V3 (7DCM / 7DCL)	SE350 (7Z46 / 7D1X)	SE350 V2 (7DA9)	SE360 V2 (7DAM)	SE450 (7D8T)	SE455 V3 (7DBY)	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)
4X67A86560	ThinkSystem AMD Alveo V70 Datacenter Accelerator Adapter	N	N	N	N	N	N	N	6	N	N	N	N	N	N	N	N	N	N
4X67A86130	ThinkSystem Intel Flex 140 12GB Gen4 Passive GPU	N	N	N	N	N	2	N	N	N	N	N	N	N	N	N	N	N	N
4X67A86131	ThinkSystem Intel Flex 170 16GB Gen4 Passive GPU	N	N	N	N	N	N	1	N	N	N	N	N	N	N	N	N	N	N
4X67A84824	ThinkSystem NVIDIA L4 24GB PCIe Gen4 Passive GPU	N	N	N	1	N	2	4	6	N	N	N	N	N	N	N	8	3	8
4X67A71311	ThinkSystem NVIDIA A10 24GB PCIe Gen4 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	4
4X67A81547	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	N	N	N	1	N	2	4	6	N	N	N	N	N	N	N	8	3	8
4X67A84009	ThinkSystem Qualcomm Cloud AI 100	N	N	N	1	N	2	4	3	N	N	N	N	N	N	N	N	N	N
<b>GPUs for Graphics and Visualization - PCIe double-width (double-slot) GPUs</b>																			
4X67A89324	ThinkSystem NVIDIA RTX 6000 Ada 48GB PCIe Active GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A96491	ThinkSystem NVIDIA RTX 4500 Ada 24GB PCIe Active GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A72593	ThinkSystem NVIDIA A40 48GB PCIe Gen4 Passive GPU w/o CEC	N	N	N	N	N	N	2 <sup>2</sup>	N	N	N	N	N	N	N	N	N	N	3 <sup>4</sup>
4X67A76720	ThinkSystem NVIDIA RTX A2000 12GB PCIe Active GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	4	N	N
<b>GPUs for Graphics and Visualization - PCIe single-width (single-slot) GPUs</b>																			
4X67A79777	ThinkSystem NVIDIA T1000 8GB PCIe Active GPU	N	1	1	N	N	N	N	N	N	N	N	N	1	1	1	N	N	N
4X67A79778	ThinkSystem NVIDIA T400 4GB PCIe Active GPU	N	1	1	N	N	N	N	N	N	N	N	N	N	1	1	N	N	N

1. Contains 4 separate GPUs connected via high-speed interconnects
2. Double-wide GPUs are only supported in the SE450 with the 360mm chassis; not supported in the 300mm chassis
3. Only available via Lenovo Scalable Infrastructure (LeSI). Select "AI & HPC – LeSI Solutions" in the DCSC configurator. See the [LeSI product guide](#) for details.
4. DisplayPort ports not supported and are disabled

Table 6. ThinkSystem server support (Part 3 of 4)

Part Number	Description	AMD V1					Dense V2				4S V2	8S	4S V1		1S Intel V1				
		SR635 (7Y98 / 7Y99)	SR655 (7Y00 / 7Z01)	SR655 Client OS	SR645 (7D2Y / 7D2X)	SR665 (7D2W / 7D2V)	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)
<b>GPUs for AI and Virtualization - Onboard GPUs</b>																			
C1HK	ThinkSystem AMD MI300X 192GB 750W 8-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
C1HM	ThinkSystem NVIDIA HGX H200 141GB 700W 8-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
C1HL	ThinkSystem NVIDIA HGX H100 80GB 700W 8-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BQQV	ThinkSystem NVIDIA H100 SXM5 700W 80G HBM3 GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BUBB	ThinkSystem NVIDIA H100 SXM5 700W 94G HBM2e GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BHT3	ThinkSystem NVIDIA HGX A100 80GB 500W 4-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
<b>GPUs for AI and Virtualization - PCIe double-width (double-slot) GPUs</b>																			
4X67A81102	ThinkSystem AMD Instinct MI210 PCIe Gen4 Passive Accelerator	N	2 <sup>2</sup>	N	N	3 <sup>2</sup>	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A89325	ThinkSystem NVIDIA H100 NVL 94GB PCIe Gen5 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A84823	ThinkSystem NVIDIA L40 48GB PCIe Gen4 Passive GPU	N	N	N	N	3	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A90669	ThinkSystem NVIDIA L40S 48GB PCIe Gen4 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A76581	ThinkSystem NVIDIA A30 24GB PCIe Gen4 Passive GPU w/o CEC	N	2	N	N	3	N	N	N	N	N	4	N	N	N	N	N	N	N
4X67A76727	ThinkSystem NVIDIA A16 64GB Gen4 PCIe Passive GPU	N	N	N	N	3	N	N	N	N	N	N	N	N	N	N	N	N	N
<b>GPUs for AI and Virtualization - PCIe single-width (single-slot) GPUs</b>																			
4X67A86560	ThinkSystem AMD Alveo V70 Datacenter Accelerator Adapter	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A86130	ThinkSystem Intel Flex 140 12GB Gen4 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N



Part Number	Description	AMD V1					Dense V2				4S V2	8S	4S V1		1S Intel V1						
		SR635 (7Y98 / 7Y99)	SR655 (7Y00 / 7Z01)	SR655 Client OS		SR645 (7D2Y / 7D2X)	SR665 (7D2W / 7D2V)	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)
4X67A86131	ThinkSystem Intel Flex 170 16GB Gen4 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A84824	ThinkSystem NVIDIA L4 24GB PCIe Gen4 Passive GPU	N	N	N	N	8	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A71311	ThinkSystem NVIDIA A10 24GB PCIe Gen4 Passive GPU	N	N	N	N	3	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A81547	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	3	6	N	3	8	N	N	N	N	2	8	N	N	N	N	N	N	N	N	N
4X67A84009	ThinkSystem Qualcomm Cloud AI 100	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
<b>GPUs for Graphics and Visualization - PCIe double-width (double-slot) GPUs</b>																					
4X67A89324	ThinkSystem NVIDIA RTX 6000 Ada 48GB PCIe Active GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A96491	ThinkSystem NVIDIA RTX 4500 Ada 24GB PCIe Active GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A72593	ThinkSystem NVIDIA A40 48GB PCIe Gen4 Passive GPU w/o CEC	N	2	N	N	3	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A76720	ThinkSystem NVIDIA RTX A2000 12GB PCIe Active GPU	N	N	2	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
<b>GPUs for Graphics and Visualization - PCIe single-width (single-slot) GPUs</b>																					
4X67A79777	ThinkSystem NVIDIA T1000 8GB PCIe Active GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X67A79778	ThinkSystem NVIDIA T400 4GB PCIe Active GPU	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

1. Contains 4 separate GPUs connected via high-speed interconnects
2. Supported only with EPYC 7003 "Milan" processors. Not supported with EPYC 7002 "Rome" processors
3. For SR665 systems with AMD EPYC 7003 "Milan" processors, the A100 is supported in either factory orders (CTO) or field upgrades. For SR665 systems with AMD EPYC 7002 "Rome" processors, the A100 is only supported under Special Bid conditions and is not supported as a field upgrade. Requires the refreshed system board.

Table 7. ThinkSystem server support (Part 4 of 4)

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)
<b>GPUs for AI and Virtualization - Onboard GPUs</b>													
C1HK	ThinkSystem AMD MI300X 192GB 750W 8-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N
C1HM	ThinkSystem NVIDIA HGX H200 141GB 700W 8-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N
C1HL	ThinkSystem NVIDIA HGX H100 80GB 700W 8-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N
BQQV	ThinkSystem NVIDIA H100 SXM5 700W 80G HBM3 GPU Board	N	N	N	N	N	N	N	N	N	N	N	N
BUBB	ThinkSystem NVIDIA H100 SXM5 700W 94G HBM2e GPU Board	N	N	N	N	N	N	N	N	N	N	N	N
BHT3	ThinkSystem NVIDIA HGX A100 80GB 500W 4-GPU Board	N	N	N	N	N	N	N	N	N	N	N	N
<b>GPUs for AI and Virtualization - PCIe double-width (double-slot) GPUs</b>													
4X67A81102	ThinkSystem AMD Instinct MI210 PCIe Gen4 Passive Accelerator	N	N	N	N	N	N	N	N	N	N	N	N
4X67A89325	ThinkSystem NVIDIA H100 NVL 94GB PCIe Gen5 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N
4X67A84823	ThinkSystem NVIDIA L40 48GB PCIe Gen4 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N
4X67A90669	ThinkSystem NVIDIA L40S 48GB PCIe Gen4 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N
4X67A76581	ThinkSystem NVIDIA A30 24GB PCIe Gen4 Passive GPU w/o CEC	N	N	N	N	N	N	2	4	N	N	N	N
4X67A76727	ThinkSystem NVIDIA A16 64GB Gen4 PCIe Passive GPU	N	N	N	N	N	N	2	N	N	N	N	N
<b>GPUs for AI and Virtualization - PCIe single-width (single-slot) GPUs</b>													
4X67A86560	ThinkSystem AMD Alveo V70 Datacenter Accelerator Adapter	N	N	N	N	N	N	N	N	N	N	N	N
4X67A86130	ThinkSystem Intel Flex 140 12GB Gen4 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N
4X67A86131	ThinkSystem Intel Flex 170 16GB Gen4 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N
4X67A84824	ThinkSystem NVIDIA L4 24GB PCIe Gen4 Passive GPU	N	N	N	N	N	N	N	N	N	N	N	N
4X67A71311	ThinkSystem NVIDIA A10 24GB PCIe Gen4 Passive GPU	N	N	N	N	N	N	4	N	N	N	N	N
4X67A81547	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	N	N	N	N	N	2	5	N	N	N	N	N
4X67A84009	ThinkSystem Qualcomm Cloud AI 100	N	N	N	N	N	N	N	N	N	N	N	N
<b>GPUs for Graphics and Visualization - PCIe double-width (double-slot) GPUs</b>													

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)
4X67A89324	ThinkSystem NVIDIA RTX 6000 Ada 48GB PCIe Active GPU	N	N	N	N	N	N	N	N	N	N	N	N
4X67A96491	ThinkSystem NVIDIA RTX 4500 Ada 24GB PCIe Active GPU	N	N	N	N	N	N	N	N	N	N	N	N
4X67A72593	ThinkSystem NVIDIA A40 48GB PCIe Gen4 Passive GPU w/o CEC	N	N	N	N	N	N	N	4 <sup>2, 3</sup>	N	N	N	N
4X67A76720	ThinkSystem NVIDIA RTX A2000 12GB PCIe Active GPU	N	N	N	N	N	N	N	N	N	N	N	N
<b>GPUs for Graphics and Visualization - PCIe single-width (single-slot) GPUs</b>													
4X67A79777	ThinkSystem NVIDIA T1000 8GB PCIe Active GPU	N	N	N	N	N	N	N	N	N	N	N	N
4X67A79778	ThinkSystem NVIDIA T400 4GB PCIe Active GPU	N	N	N	N	N	N	N	N	N	N	N	N

1. The SR650 has support for 5x T4 or 5x P4 GPUs in servers with second-generation Intel Xeon Scalable processors only. SR650 systems originally with first-generation processors have support for up to 4x T4 or 2x P4 GPUs.
2. DisplayPort ports not supported and are disabled.
3. Only available via Lenovo Scalable Infrastructure (LeSI). Select "AI & HPC – LeSI Solutions" in the DCSC configurator. See the [LeSI product guide](#) for details.
4. Special Bid only

## ThinkAgile HX support

In the Controlled GPU column, if a GPU is listed as Controlled, that means the GPU is not offered in certain markets, as determined by the US Government. If a GPU is listed as No, that means the GPU is not controlled and is available in all markets. See [Part Numbers](#)

Table 8. ThinkAgile HX appliance and certified node GPU support - Intel Purley and Whitley

Part number	Feature	Description	Maximum supported	
			HX1021	HX360 V2 Edge
<b>Single-wide GPUs</b>				
4X67A81547	BP05	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU	No	1
4X67A81547	BQZT	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	1	1

Table 9. ThinkAgile HX appliance and certified node GPU support - V3 systems

Part number	Feature	Description	Maximum supported													
			HX630 V3 IS	HX630 V3 ROBO IS	HX630 V3 CN	HX630 V3 ROBO CN	HX650 V3 IS	HX650 V3 Storage IS	HX650 V3 CN	HX650 V3 Storage CN	HX645 V3 IS	HX645 V3 CN	HX665 V3 IS	HX665 V3 Storage IS	HX665 V3 CN	HX665 V3 Storage CN
<b>Double-wide GPUs</b>																
CTO Only	BQZR	ThinkSystem NVIDIA A30 24GB PCIe Gen4 Passive GPU w/o CEC	No	No	No	No	3	No	3	No	No	No	3	No	3	No
4X67A72593	BQZQ	ThinkSystem NVIDIA A40 48GB PCIe Gen4 Passive GPU w/o CEC	No	No	No	No	3	No	3	No	No	No	3	No	3	No
4X67A84823	BT87	ThinkSystem NVIDIA L40 48GB PCIe Gen4 Passive GPU	No	No	No	No	3	No	3	No	No	No	No	No	No	No
4X67A90669	BYFH	ThinkSystem NVIDIA L40S 48GB PCIe Gen4 Passive GPU	No	No	No	No	3	No	3	No	No	No	3	No	3	No
CTO Only	BQZU	ThinkSystem NVIDIA A16 64GB Gen4 PCIe Passive GPU w/o CEC	No	No	No	No	3	No	3	No	No	No	3	No	3	No
4X67A76727	BNFE	ThinkSystem NVIDIA A16 64GB Gen4 PCIe Passive GPU	No	No	No	No	3	No	3	No	No	No	No	No	No	No
<b>Single-wide GPUs</b>																
4X67A81547	BQZT	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	3	2	3	2	8	No	8	No	2	2	8	No	8	No
4X67A84824	BS2C	ThinkSystem NVIDIA L4 24GB PCIe Gen4 Passive GPU	3	2	3	2	8	No	8	No	No	No	5	No	5	No

## ThinkAgile VX support

In the Controlled GPU column, if a GPU is listed as Controlled, that means the GPU is not offered in certain markets, as determined by the US Government. If a GPU is listed as No, that means the GPU is not controlled and is available in all markets. See [Part Numbers](#)

Table 10. ThinkAgile VX appliance and certified node GPU support - Intel Whitley and AMD Milan systems

Part number	Feature	Description	Maximum supported															
			VX2330	VX2375	VX3330	VX3331	VX3375	VX3376	VX3530-G	VX3575-G	VX5530	VX5575	VX7330-N	VX7375-N	VX7530	VX7531	VX7575	VX7576
<b>Double-wide GPUs</b>																		
4X67A76581	BQZR	ThinkSystem NVIDIA A30 24GB PCIe Gen4 Passive GPU w/o CEC	No	No	No	No	No	No	3	3	No	No	No	No	No	3	No	3
4X67A72593	BQZQ	ThinkSystem NVIDIA A40 48GB PCIe Gen4 Passive GPU w/o CEC	No	No	No	No	No	No	3	3	No	No	No	No	No	3	No	3
4X67A84823	BT87	ThinkSystem NVIDIA L40 48GB PCIe Gen4 Passive GPU	No	No	No	No	No	No	3	3	No	No	No	No	No	3	No	3
CTO Only	BQZU	ThinkSystem NVIDIA A16 64GB Gen4 PCIe Passive GPU w/o CEC	No	No	No	No	No	No	3	3	No	No	No	No	No	3	No	3
<b>Single-wide GPUs</b>																		
4X67A81547	BQZT	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	No	No	No	3	No	3	8	8	No	No	No	No	No	8	No	8
4X67A84824	BS2C	ThinkSystem NVIDIA L4 24GB PCIe Gen4 Passive GPU	No	No	No	3	No	No	8	8	No	No	No	No	No	8	No	8
CTO Only	BQZS	ThinkSystem NVIDIA A10 24GB PCIe Gen4 Passive GPU w/o CEC	No	No	No	No	No	No	4	3	No	No	No	No	No	4	No	3

Table 11. ThinkAgile VX appliance and certified node GPU support - V3 systems

Part number	Feature	Description	Maximum supported												
			VX630 V3 IS	VX630 V3 CN	VX635 V3 IS	VX635 V3 CN	VX645 V3 IS	VX645 V3 CN	VX650 V3 IS	VX650 V3 CN	VX655 V3 IS	VX655 V3 CN	VX665 V3 IS	VX665 V3 CN	VX850 V3 CN
<b>Double-wide GPUs</b>															
4X67A76720	BMT9	ThinkSystem NVIDIA RTX A2000 12GB PCIe Active GPU	No	No	No	No	No	No	3	3	3	3	3	3	No
4X67A76726	BNFD	ThinkSystem NVIDIA RTX A4500 20GB PCIe Active GPU	No	No	No	No	No	No	3	3	3	3	3	3	2
4X67A81102	BP04	ThinkSystem AMD Instinct MI210 PCIe Gen4 Passive Accelerator	No	No	No	No	No	No	No	No	3	3	No	No	2
4X67A76581	BQZR	ThinkSystem NVIDIA A30 24GB PCIe Gen4 Passive GPU w/o CEC	No	No	No	No	No	No	3	3	3	3	3	3	No
4X67A72593	BQZQ	ThinkSystem NVIDIA A40 48GB PCIe Gen4 Passive GPU w/o CEC	No	No	No	No	No	No	3	3	3	3	3	3	No
4X67A84823	BT87	ThinkSystem NVIDIA L40 48GB PCIe Gen4 Passive GPU	No	No	No	No	No	No	3	3	No	No	No	No	2
4X67A90669	BYFH	ThinkSystem NVIDIA L40S 48GB PCIe Gen4 Passive GPU	No	No	No	No	No	No	3	3	3	3	3	3	No
CTO Only	BQZU	ThinkSystem NVIDIA A16 64GB Gen4 PCIe Passive GPU w/o CEC	No	No	No	No	No	No	3	3	3	3	3	3	No
4X67A89325	BXAK	ThinkSystem NVIDIA H100 NVL 94GB PCIe Gen5 Passive GPU	No	No	No	No	No	No	3	3	3	3	3	3	No
<b>Single-wide GPUs</b>															
4X67A81547	BQZT	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	3	3	3	3	3	3	8	8	8	8	8	8	4
4X67A84824	BS2C	ThinkSystem NVIDIA L4 24GB PCIe Gen4 Passive GPU	3	3	No	No	No	No	8	8	8	5	5	5	4

## ThinkAgile MX support

In the Controlled GPU column, if a GPU is listed as Controlled, that means the GPU is not offered in certain markets, as determined by the US Government. If a GPU is listed as No, that means the GPU is not controlled and is available in all markets. See [Part Numbers](#)

Table 12. ThinkAgile MX appliance and certified node GPU support - Whitley systems

Part number	Feature	Description	Maximum supported							
			MX3330-H	MX3330-F	MX3331-H	MX3331-F	MX3530-H	MX3530-F	MX3531-H	MX3531-F
<b>Double-wide GPUs</b>										
4X67A72593	BQZQ	ThinkSystem NVIDIA A40 48GB PCIe Gen4 Passive GPU w/o CEC	No	No	No	No	3	3	3	3
CTO Only	BQZU	ThinkSystem NVIDIA A16 64GB Gen4 PCIe Passive GPU w/o CEC	No	No	No	No	3	3	3	3
<b>Single-wide GPUs</b>										
4X67A81547	BQZT	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	3	3	3	3	3	3	3	3
CTO Only	BQZS	ThinkSystem NVIDIA A10 24GB PCIe Gen4 Passive GPU w/o CEC	No	No	No	No	4	4	4	4

Table 13. ThinkAgile MX appliance and certified node GPU support - V3 systems

Part number	Feature	Description	Maximum supported					
			MX650 V3 IS	MX650 V3 CN	MX630 V3 IS	MX630 V3 CN	MX450 Edge IS	MX455 V3 Edge Premier
<b>Double-wide GPUs</b>								
CTO Only	BQZR	ThinkSystem NVIDIA A30 24GB PCIe Gen4 Passive GPU w/o CEC	3	3	No	No	No	No
4X67A72593	BQZQ	ThinkSystem NVIDIA A40 48GB PCIe Gen4 Passive GPU w/o CEC	3	3	No	No	No	No
4X67A84823	BT87	ThinkSystem NVIDIA L40 48GB PCIe Gen4 Passive GPU	3	3	No	No	2	No
4X67A90669	BYFH	ThinkSystem NVIDIA L40S 48GB PCIe Gen4 Passive GPU	3	3	No	No	No	No
4X67A76727	BNFE	ThinkSystem NVIDIA A16 64GB Gen4 PCIe Passive GPU	3	3	No	No	No	No
CTO Only	BQZU	ThinkSystem NVIDIA A16 64GB Gen4 PCIe Passive GPU w/o CEC	3	3	No	No	No	No
<b>Single-wide GPUs</b>								
4X67A81547	BQZT	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	8	8	3	3	4	6
4X67A81547	BP05	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU	No	No	No	No	No	6
4X67A84824	BS2C	ThinkSystem NVIDIA L4 24GB PCIe Gen4 Passive GPU	8	8	3	3	6	No

## NVIDIA software

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

- [Software support overview](#)
- [NVIDIA vGPU Software \(vApps, vPC, RTX vWS\)](#)
- [NVIDIA Omniverse Software \(OVE\)](#)
- [NVIDIA AI Enterprise Software](#)
- [NVIDIA HPC Compiler Software](#)

### Software support overview

The following table lists which software each NVIDIA GPU supports.

Table 14. Software support overview

<b>NVIDIA GPU</b>	<b>NVIDIA vGPU Software</b> <a href="#">Support page</a>	<b>NVIDIA Omniverse Software (OVE)</b>	<b>NVIDIA AI Enterprise Software (NVAIE)</b> <a href="#">Support page</a>	<b>NVIDIA HPC Compiler</b>
NVIDIA H200	No	No	Supported	Supported
NVIDIA H100 80GB PCIe Gen5 Passive GPU	No	No	Supported	Supported
NVIDIA H100 NVL 94GB PCIe Gen5 Passive GPU	No	No	Supported	Supported
NVIDIA L40 48GB PCIe Gen4 Passive GPU	Supported	Supported	Supported	Supported
NVIDIA L40S 48GB PCIe Gen4 Passive GPU	Supported	Supported	Supported	Supported
NVIDIA A30 24GB PCIe Gen4 Passive GPU	No	No	Supported	Supported
NVIDIA A16 64GB Gen4 PCIe Passive GPU	Supported	Supported	Supported	Supported
NVIDIA L4 24GB PCIe Gen4 Passive GPU	Supported	Supported	Supported	Supported
NVIDIA A10 24GB PCIe Gen4 Passive GPU	Supported	Supported	Supported	Supported
NVIDIA A2 16GB PCIe Gen4 Passive GPU	Supported	Supported	Supported	Supported
NVIDIA T4 16GB PCIe Passive GPU	Supported	Supported	Supported	Supported
NVIDIA A40 48GB PCIe Gen4 Passive GPU	Supported	Supported	Supported	Supported
NVIDIA RTX A2000 12GB PCIe Active GPU	No	No	No	Supported
NVIDIA RTX 6000 Ada 48GB PCIe Active GPU	Supported	Supported	Supported	Supported
NVIDIA T1000 8GB PCIe Active GPU	No	No	No	Supported
NVIDIA T400 4GB PCIe Active GPU	No	No	No	Supported



## 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. Each Lenovo part number includes a fixed number of years of Support, Upgrade and Maintenance (SUMS).

- **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 15. NVIDIA vGPU Software

Part number	Feature code 7S02CTO1WW	Description
NVIDIA vApps		
7S020003WW	B1MP	NVIDIA vApps SUMS ONLY 5Yr, 1 CCU
7S020004WW	B1MQ	NVIDIA vApps Subscription License 1 Year, 1 CCU
7S020005WW	B1MR	NVIDIA vApps Subscription License 3 Years, 1 CCU
7S02003DWW	S832	NVIDIA vApps Subscription License 4 Years, 1 CCU
7S02003EWW	S833	NVIDIA vApps Subscription License 5 Years, 1 CCU
NVIDIA vPC		

Part number	Feature code 7S02CTO1WW	Description
7S020009WW	B1MV	NVIDIA vPC SUMS 5Yr ONLY, 1 CCU
7S02000AWW	B1MW	NVIDIA vPC Subscription License 1 Year, 1 CCU
7S02000BWW	B1MX	NVIDIA vPC Subscription License 3 Years, 1 CCU
7S02003FWW	S834	NVIDIA vPC Subscription License 4 Years, 1 CCU
7S02003GWW	S835	NVIDIA vPC Subscription License 5 Years, 1 CCU
<b>NVIDIA RTX vWS</b>		
7S02000FWW	B1N1	NVIDIA RTX vWS SUMS ONLY 5Yr, 1 CCU
7S02000GWW	B1N2	NVIDIA RTX vWS Subsc Lic 1Yr 1 CCU
7S02000HWW	B1N3	NVIDIA RTX vWS Subscription License 3 Years, 1 CCU
7S02000XWW	S6YJ	NVIDIA RTX vWS Subscription License 4 Years, 1 CCU
7S02000YWW	S6YK	NVIDIA RTX vWS Subscription License 5 Years, 1 CCU
7S02000LWW	B1N6	NVIDIA RTX vWS EDU SUMS ONLY 5Y, 1CCU
7S02000MWW	B1N7	NVIDIA RTX vWS EDU Subscription License 1 Year, 1 CCU
7S02000NWW	B1N8	NVIDIA RTX vWS EDU Subscription License 3 Years, 1 CCU
7S02003BWW	S830	NVIDIA RTX vWS EDU Subscription License 4 Years, 1 CCU
7S02003CWW	S831	NVIDIA RTX vWS EDU Subscription License 5 Years, 1 CCU

## NVIDIA Omniverse Software (OVE)

NVIDIA Omniverse™ Enterprise is an end-to-end collaboration and simulation platform that fundamentally transforms complex design workflows, creating a more harmonious environment for creative teams.

NVIDIA and Lenovo offer a robust, scalable solution for deploying Omniverse Enterprise, accommodating a wide range of professional needs. This document details the critical components, deployment options, and support available, ensuring an efficient and effective Omniverse experience.

Deployment options cater to varying team sizes and workloads. Using Lenovo NVIDIA-Certified Systems™ and Lenovo OVX nodes which are meticulously designed to manage scale and complexity, ensures optimal performance for Omniverse tasks.

Deployment options include:

- Workstations: NVIDIA-Certified Workstations with RTX 6000 Ada GPUs for desktop environments.
- Data Center Solutions: Deployment with Lenovo OVX nodes or NVIDIA-Certified Servers equipped with L40, L40S or A40 GPUs for centralized, high-capacity needs.

NVIDIA Omniverse Enterprise includes the following components and features:

- Platform Components: Kit, Connect, Nucleus, Simulation, RTX Renderer.
- Foundation Applications: USD Composer, USD Presenter.
- Omniverse Extensions: Connect Sample & SDK.
- Integrated Development Environment (IDE)
- Nucleus Configuration: Workstation, Enterprise Nucleus Server (supports up to 8 editors per scene); Self-Service Public Cloud Hosting using Containers.
- Omniverse Farm: Supports batch workloads up to 8 GPUs.
- Enterprise Services: Authentication (SSO/SSL), Navigator Microservice, Large File Transfer, User

Accounts SAML/Account Directory.

- User Interface: Workstation & IT Managed Launcher.
- Support: NVIDIA Enterprise Support.
- Deployment Scenarios: Desktop to Data Center: Workstation deployment for building and designing, with options for physical or virtual desktops. For batch tasks, rendering, and SDG workloads that require headless compute, Lenovo OVX nodes are recommended.

The following part numbers are for a subscription license which is active for a fixed period as noted in the description. The license is for a named user which means the license is for named authorized users who may not re-assign or share the license with any other person.

Table 16. NVIDIA Omniverse Software (OVE)

Part number	Feature 7S02CTO1WW	Description
7S02003ZWW	SCX0	NVIDIA Omniverse Enterprise Subscription per GPU, 1 Year
7S020042WW	SCX3	NVIDIA Omniverse Enterprise Subscription per GPU, 3 Years
7S020044WW	SD5T	NVIDIA Omniverse Enterprise Subscription per GPU, 5 Year
7S020041WW	SCX2	NVIDIA Omniverse Enterprise Subscription per GPU, INC, 1 Year
7S020040WW	SCX1	NVIDIA Omniverse Enterprise Subscription per GPU, EDU, 1 Year
7S020043WW	SCX4	NVIDIA Omniverse Enterprise Subscription per GPU, EDU, 3 Years
7S020045WW	SD5U	NVIDIA Omniverse Enterprise Subscription per GPU EDU, 5 Year

### NVIDIA AI Enterprise Software

Lenovo offers the NVIDIA AI Enterprise (NVAIE) cloud-native enterprise software. NVIDIA AI 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 AI Enterprise is licensed on a per-GPU basis. NVIDIA AI 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 AI Enterprise software indefinitely, with no expiration. NVIDIA AI 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 AI Enterprise software products with subscription includes support services for the duration of the software’s subscription license

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

Table 17. Features of NVIDIA AI Enterprise Software (NVAIE)

Features	Supported in NVIDIA AI Enterprise
Per GPU Licensing	Yes
Compute Virtualization	Supported
Windows Guest OS Support	No support
Linux Guest OS Support	Supported
Maximum Displays	1

Features	Supported in NVIDIA AI Enterprise
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 18. NVIDIA AI Enterprise Software (NVAIE)

Part number	Feature code 7S02CTO1WW	Description
AI Enterprise Perpetual License		
7S02001BWW	S6YY	NVIDIA AI Enterprise Perpetual License and Support per GPU, 5 Years
7S02001EWW	S6Z1	NVIDIA AI Enterprise Perpetual License and Support per GPU, EDU, 5 Years
AI Enterprise Subscription License		
7S02001FWW	S6Z2	NVIDIA AI Enterprise Subscription License and Support per GPU, 1 Year
7S02001GWW	S6Z3	NVIDIA AI Enterprise Subscription License and Support per GPU, 3 Years
7S02001HWW	S6Z4	NVIDIA AI Enterprise Subscription License and Support per GPU, 5 Years
7S02001JWW	S6Z5	NVIDIA AI Enterprise Subscription License and Support per GPU, EDU, 1 Year
7S02001KWW	S6Z6	NVIDIA AI Enterprise Subscription License and Support per GPU, EDU, 3 Years
7S02001LWW	S6Z7	NVIDIA AI Enterprise Subscription License and Support per GPU, EDU, 5 Years

Find more information in the [NVIDIA AI Enterprise Sizing Guide](#).

## NVIDIA HPC Compiler Software

Table 19. 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

Part number	Feature code 7S09CTO6WW	Description
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
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

## NVIDIA-Certified Systems

NVIDIA-Certified Systems create the essential platform for the evolution of enterprise data centers, delivering the necessary infrastructure for running a diverse range of accelerated workloads. The certification test suite is designed to exercise the performance and functionality of the configured server by running a set of software that represents a wide range of real-world applications. This includes deep learning training, AI inference, end-to-end AI frameworks including NVIDIA Riva and NVIDIA Clara™, data science including Spark, intelligent video analytics (IVA), high-performance computing (HPC) and CUDA functions, and rendering. It also covers infrastructure performance acceleration such as network and storage offload, security features, and remote management capabilities. The certification covers compute-oriented and general-purpose data center servers as well as edge servers and workstations.

To see the list of certified systems, go to the [NVIDIA Certified Systems Catalog](#).

In addition to supporting [hundreds of commercial applications](#), NVIDIA-Certified Systems enable enterprises to easily deploy software solutions from NVIDIA and partners for AI, Data Analytics, Visualization, and more. They also provide the best foundation for enterprise solutions such as NVIDIA AI Enterprise and NVIDIA Omniverse Enterprise.

To learn more, download the [Lenovo NVIDIA-Certified datasheet](#).

## **AMD Instinct MI300X GPU**

For details on this GPU board, see the separate AMD MI300X product guide:

<https://lenovopress.lenovo.com/lp1943-thinksystem-amd-mi300x-192gb-750w-8-gpu-board>

## **AMD Instinct MI210 Accelerator**

For details on this GPU, see the separate AMD MI210 product guide:  
<https://lenovopress.lenovo.com/lp1862-amd-instinct-mi210-accelerator>

## **Intel Flex 140 GPU**

For details on this GPU, see the separate Intel Flex 140 product guide:  
<https://lenovopress.lenovo.com/lp1830-thinksystem-intel-flex-140-12gb-gen4-passive-gpu>

## **Intel Flex 170 GPU**

For details on this GPU, see the separate Intel Flex 170 product guide:  
<https://lenovopress.lenovo.com/lp1829-thinksystem-intel-flex-170-16gb-gen4-passive-gpu>

## **NVIDIA H200 GPU**

For details on this GPU, see the separate NVIDIA HGX H200 141GB 700W 8-GPU Board product guide:  
<https://lenovopress.lenovo.com/lp1944-nvidia-hgx-h200-141gb-700w-8-gpu-board>

## **NVIDIA H100 and and H100 NVL GPUs**

For details on these GPUs, see the separate NVIDIA H100 product guide:

<https://lenovopress.lenovo.com/lp1732-thinksystem-nvidia-h100-80gb-pcie-gen5-passive-gpu>

## **NVIDIA H100 SXM5 GPU Board**

For details on this GPU, see the separate NVIDIA H100 product guide:

<https://lenovopress.lenovo.com/lp1732-thinksystem-nvidia-h100-80gb-pcie-gen5-passive-gpu>

## **NVIDIA L40S GPU**

For details on this GPU, see the separate NVIDIA L40S product guide:

<https://lenovopress.lenovo.com/lp1812-nvidia-l40s-48gb-pcie-gen4-passive-gpu>

## **NVIDIA L40 GPU**

For details on this GPU, see the separate NVIDIA L40 product guide:

<https://lenovopress.lenovo.com/lp1718-nvidia-l40-48gb-pcie-gen4-passive-gpu>

## **NVIDIA L4 GPU**

For details on this GPU, see the separate NVIDIA L4 product guide:

<https://lenovopress.lenovo.com/lp1717-thinksystem-nvidia-l4-24gb-pcie-gen4-passive-gpu>

## **NVIDIA HGX A100 4-GPU Board**

For details on this GPU, see the separate NVIDIA A100 product guide:

<https://lenovopress.lenovo.com/lp1734-thinksystem-nvidia-a100-40gb-pcie-40-passive-gpu>

## **NVIDIA A40 GPU**

For details on the A40 GPU, see the separate product guide:

<https://lenovopress.lenovo.com/lp1773-thinksystem-nvidia-a40-48gb-pcie-gen4-passive-gpu>

## **NVIDIA A30 GPU**

For details on the A30 GPU, see the separate product guide:

<https://lenovopress.lenovo.com/lp1774-thinksystem-nvidia-a30-24gb-pcie-gen4-passive-gpu>

## **NVIDIA A16 GPU**

For details on the A16 GPU, see the separate product guide:

<https://lenovopress.lenovo.com/lp1815-thinksystem-nvidia-a16-64gb-gen4-pcie-passive-gpu>

## **NVIDIA A10 GPU**

For details on the A10 GPU, see the separate product guide:

<https://lenovopress.lenovo.com/lp1816-thinksystem-nvidia-a10-24gb-pcie-gen4-passive-gpu>

## **NVIDIA A2 GPU**

For details on the A2 GPU, see the separate product guide:

<https://lenovopress.lenovo.com/lp1817-thinksystem-nvidia-a2-16gb-pcie-gen4-passive-gpu>



## **NVIDIA RTX 6000 Ada GPU**

For details on the RTX 6000 Ada GPU, see the separate product guide:

<https://lenovopress.lenovo.com/lp1940-thinksystem-nvidia-rtx-6000-ada-48gb-pcie-active-gpu>

## **NVIDIA RTX 4500 Ada**

For details on the RTX 4500 Ada GPU, see the separate product guide:

<https://lenovopress.lenovo.com/lp1997-nvidia-rtx-4500-ada-24gb-pcie-active-gpu>

## **NVIDIA RTX A2000 GPU**

For details on the RTX A2000 GPU, see the separate product guide:

<https://lenovopress.lenovo.com/lp1919-thinksystem-nvidia-rtx-a2000-12gb-pcie-active-gpu>

## **NVIDIA T1000 GPU**

For details on the T1000 GPU (formerly known as the Quadro RTX T1000), see the separate product guide:

<https://lenovopress.lenovo.com/lp1924-thinksystem-nvidia-t1000-8gb-pcie-active-gpu>

## **NVIDIA T400 GPU**

For details on the T400 GPU (formerly known as the Quadro RTX T400), see the separate product guide:  
<https://lenovopress.lenovo.com/lp1925-thinksystem-nvidia-t400-4gb-pcie-active-gpu>

## **Qualcomm Cloud AI 100 Accelerator**

For details on this accelerator, see the separate Qualcomm Cloud AI 100 product guide:  
<https://lenovopress.lenovo.com/lp1772-thinksystem-qualcomm-cloud-ai-100>

## **Related product families**

Product families related to this document are the following:

- [GPU adapters](#)

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