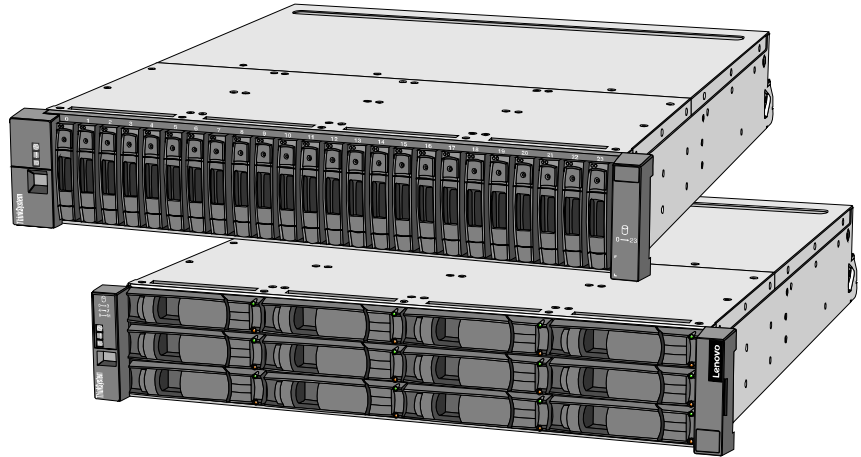


Lenovo ThinkSystem DE2000H Configuration Guide Gen2 controller model

System Guide

October 7, 2025 edition



Change information

- We have responded to the announcement of price revisions (price increases) for Server and Software products (PPR25P02). - The following drive options have been added.

- (4XB7A88501) TS3.84TB1DWD 2.5-inch SSD FIPS (for DE series 2U12)
- (4XB7A88466) TS15.36TB1DWD 2.5-inch SSD SED (for DE series 2U24)
- (4XB7A88469) TS3.84TB1DWD 2.5-inch SSD FIPS (for DE series 2U24) - Price

revisions from Lenovo Services have been reflected.

- The notes for "●Drive Options" have been corrected. - The service options have been changed to LenovoServicesPremier. - The price revision (price increase) announcement (PPI24P01) for Server Options and Software products has been updated. - The following options for "●Power Cable Options" have been corrected to 200V power cords.

- (4L67A08357) 2.8m power cord (12A/200VC13 to JISC-8303 for Japan)
- (4L67A08362) 4.3m power cord (12A/200VC13 to JISC-8303 for Japan)

- The following drive options have been added.

- (4XB7A88046) TS 2.4TB 10K 2.5-inch HDD (for DE series 2U24)
- (4XB7A88048) TS 2.4TB 10K 2.5-inch HDDFIPS (for DE series 2U24)
- (4XB7A74955) TS 3.84TB 1DWD 2.5-inch SSD (for DE series 2U24)
- (4XB7A88027) TS 22TB 7.2K 3.5-inch HDD (for DE series 2U12) - The

following drive options have been added.

- (4XB7A74954) TS3.84TB1DWD 2.5-inch SSD (for DE Series 2U12)
- (4XB7A74955) TS3.84TB1DWD 2.5-inch SSD (for DE Series 2U24)

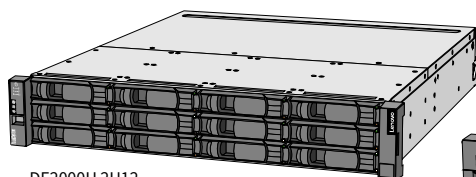
ThinkSystemDE series feature comparison

The ThinkSystem DE Series is a simple, fast, and reliable storage system for high-bandwidth applications such as data analytics, video surveillance, and disk-based backup that require SAN storage.

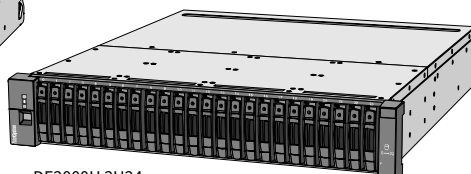
The modular chassis design and simple management tools simplify configuration, and the system is designed to achieve 99.999% availability with fully redundant I/O paths, redundancy of each component, advanced data protection features, and extensive diagnostic functions.

Lenovo ThinkSystem DE2000H/DE4000H/DE6000H Hybrid Storage Array Basic Performance

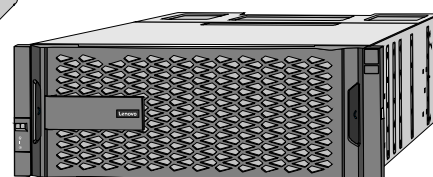
function	ThinkSystemDE2000H	ThinkSystemDE4000H	ThinkSystemDE6000H
Form Factor	2U 12 drives (3.5-inch drive bays) 2U 24 drives (2.5-inch drive bays)	2U 12 drives (3.5-inch drive bays) 2U 24 drives (2.5-inch drive bays) 4U 60 drives (5 drawers with 12 drives each)	2U 24 drives (2.5-inch drive bays) 4U 60 drives (5 drawers with 12 drives each)
Number of Controllers	2 (dual)		
Cache size	16GB (8GB per controller)	16GB (8GB per controller) or 64GB (32GB per controller)	32GB (16GB per controller) or 128GB (64GB per controller) [CTO only]
Selectable host I/O ports (2 controllers total)	4 ports (SFF-8644) x 12GbSAS, 8 ports (SFF-8644) x 12GbSAS, 8 ports (SFP28) x 10/25Gb iSCSI, 8 ports (SFP+) x 8/16/32GbFC More options available	8 ports (SFF-8644) x 12GbSAS, 8 ports (SFP28) x 10/25Gb iSCSI, 8 ports (SFP+) x 8/16/32Gb FC More options available	8 ports x 12Gb SAS, 8 ports x 10Gb/25Gb iSCSI 8 ports x 16/32Gb FC or 4 ports x 100GbNVMe/RoCE More options available
maximum performance	Random read: 100,000 IOPS Random write: 35,000 IOPS Sequential read rate: 3GBps Sequential write rate: 0.9GBps	Random read: 300,000 IOPS Random write: 109,000 IOPS Sequential read rate: 9.2GBps Sequential write rate: 2.7GBps	Random read: 1,000,000 IOPS Random write: 390,000 IOPS Sequential read rate: 21GBps Sequential write rate: 7GBps
Maximum Number of Drives Up to 12 in a 2U12 chassis. Up to 24 in a 2U24 chassis. Up to 60 in a 4U60 chassis, Connect multiple expansion cabinets By connecting Live recording is available.	3.5 type: 48 (2U12x4) 2.5 type: 96 (2U24x4)	3.5 type: 192 (2U12x1+4U60x3) 2.5 type: 96 (2U24x4) *Up to 120 SSDs can be installed	3.5 type: 240 (4U60x4), 480(4U60x8) [When applying FoD] 2.5 type: 192 (2U24x8) *Up to 120 SSDs can be installed
maximum capacity	3.5-inch drive: 1PB (48x22TB) 2.5-inch drive: 1.47PB (96x15.36TB)	3.5-inch drive: 4.23PB (192x22TB) 2.5-inch drive: 1.44PB (96x15.36TB SSD)	3.5-inch drive: 5.28PB (240x22TB) 10.56PB(480x22TB) [When applying FoD]
Maximum number of logical volumes	512	512	2048
Maximum Logical Volume Size	2PB	2PB	2PB
Maximum number of drives in each RAID group	RAID 0,1,10:96, RAID 3,5,6:30, DDP: 96	RAID 0,1,10: 192, RAID 3,5,6: 30, DDP: 192	RAID 0,1,10: 240, RAID 3,5,6: 30, DDP: 240 (standard)/480 (when applying FoD)
Maximum DDP Arrays	20	20	20
Number of drives in a DDP array	Minimum 11 to maximum 96	Minimum 11 to maximum 192	Minimum 11 to maximum 240
Maximum SSD read cache capacity	4TB	4TB	5TB
Maximum Number of Hosts	256	256	512
Number of Snapshots	Standard 128, optional 512	Standard 128, optional 512	Standard 1024, optional 2048
Number of mirrors	32 (asynchronous) depending on option	32 (asynchronous, synchronous) by option	128 (asynchronous, synchronous) by option



DE2000H 2U12
DE4000H 2U12




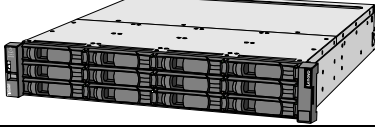
DE2000H 2U24
DE4000H 2U24
DE6000H 2U24



DE4000H 4U60
DE6000H 4U60

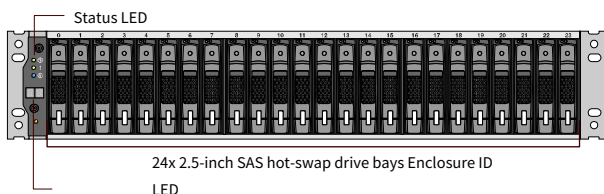
Lenovo ThinkSystem DE2000H Hybrid Storage Array

■ The options, support status, and prices listed in this catalog are current as of October 7, 2025, and are subject to change without prior notice. The displayed price is the base price for businesses and does not include consumption tax.

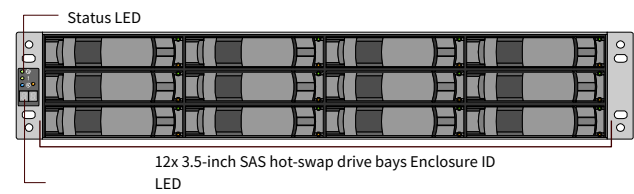
Product name	Lenovo ThinkSystem DE2000H (Gen2 controller model)	
	[2U24 SFF (2.5-inch drive bay)]	[2U12 LFF (3.5-inch drive bay)]
Product Number	7Y71A00QJP	7Y70A00YJP
Suggested retail price (excluding tax)	1,750,000 yen	1,750,000 yen
		
Number of Controllers	2 (dual)	
Number of host interfaces (per 2 controllers)	[When adding 2x4C57A14377] 4 ports (SFF-8644) x 12GbSAS [When adding 2x4C57A14367] 8 ports (SFF-8644) x 12GbSAS [When adding 2x4C57A14369] 8 ports (SFP28) x 10/25Gb iSCSI [When adding 2x4C57A14368] 8 ports (SFP+) x 8/16/32GbFC *Host interfaces are provided by adding an optional HIC.	
Expansion Enclosure Ports	4 (2 per controller) x SFF-8644 [12GbSAS]	
Cache Capacity	16GB (8GB per controller) (Flash memory with battery)	
RAID level	RAID 0, 1, 3, 5, 6, 10, DDP (Dynamic Disk Pool)	
Drive connection interface	12Gbps SAS	
Number of internal HDDs	twenty four	12
Built-in HDD type	2.5-inch SAS HDD/SSD	3.5-inch SAS HDD/SSD
Built-in HDD type	2.5-inch SAS HDD: 1.2TB/1.8TB/2.4TB (10K SAS), 1.8TB/2.4TB (10K SAS HDDFIPS) 2.5-inch SAS SSD: 960GB/1.92TB/3.84TB/7.68TB/15.36TB (1DWD), 800GB/1.6TB (3DWD), 1.6TB (SSD FIPS 3DWD)	3.5-inch SAS HDD: 4TB/8TB/10TB/12TB/18TB/22TB (7.2KNL SAS), 10TB (7.2KNL SAS HDDFIPS) 3.5-inch SAS SSD: 960GB/1.92TB/3.84TB (1DWD), 1.6TB (SSD FIPS 3DWD)
Maximum number of expansion enclosures that can be connected	3 Expansion enclosures can be mixed, including 3.5-inch (DE120S) and 2.5-inch (DE240S)	
Maximum capacity (when equipped with the same type)	1.47PB (2.5-inch 15.36TB SSD x 96)	1PB (3.5 type 22TB NL SAS x 48)
performance	Random read: 100,000 IOPS Random write: 35,000 IOPS Sequential read rate: 3GBps Sequential write rate: 0.9GBps	
Environmental Response	Green Purchasing Act (2020 standards) and RoHS Directive compliant	
Power consumption (maximum)	667W (2,276Btu/h) [100-127VAC] / 578W (1,973Btu/h) [200-240VAC]	570W (1,945Btu/h) [100-127VAC] / 508W (1,734Btu/h) [200-240VAC]
Power supply unit	913W rated output (Platinum) / Hot-swap redundant power supply with cooling fan (2 power supplies)	
power supply	AC 100-240V / 50-60Hz	
Energy consumption efficiency (2023 standard)*1	0.004130 (Classification: VI) (A) [When connected to DE240S]	0.000764 (Classification: VI) (AAA) [When connected to DE120S]
Size (mm)	449(W) x 553(D) x 85(H), 2U space	447(W) x 483(D) x 85(H), 2U space
Mass (kg)	Full drive load: 24.59	Full drive load: 28.78
Operating environment	temperature (°C)	5 to 45 (operating) / -10 to 50 (storage)
	Relative humidity (%)	10 to 40 (in operation) / -10 to 50 (in storage)
What's in the box	8 to 90 (operating) / 10 to 90 (storage)	8 to 90 (operating) / 10 to 90 (storage)
	Power cord (IEC320-C14 (1.5m) x2), rack mount kit, quick installation guide, various flyers, 1x Lenovo ThinkSystem Storage USB Cable (USB Type A to Micro-USB) 2m	
service	Setup Support 90	
guarantee	Domestic repairs	3-year parts/3-year next business day repair/warranty service (9 hours x 5 days a week/CRU)
	Overseas repairs	*Yes: Follow the repair method in the country where the repair is requested (IWS International Hardware Warranty Service)

*1 Energy consumption efficiency is calculated by dividing the power consumption measured using the method specified in the Energy Conservation Act by the storage capacity specified in the same Act. SSDs are not subject to the Energy Conservation Act. The figures in parentheses indicate an achievement rate of 100% to 110%, AA indicates an achievement rate of 110% to 140%, and AAA indicates an achievement rate of 140% or more, based on the energy conservation standards.

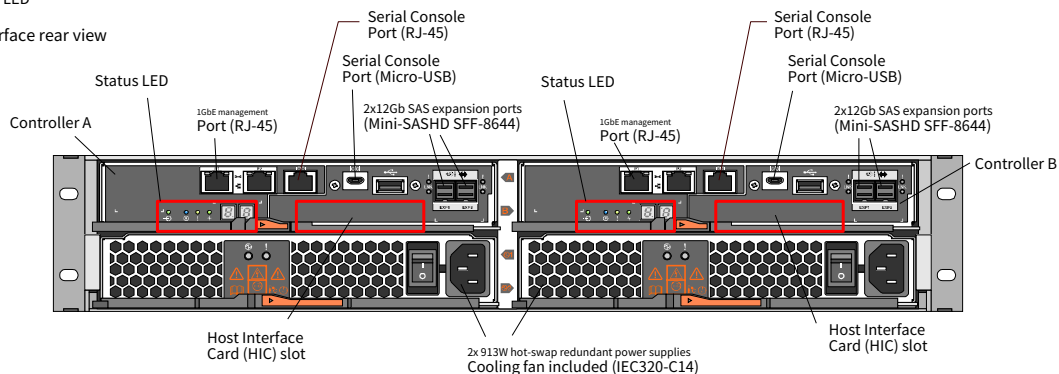
DE2000H 2.5-inch model, front view



DE2000H 3.5-inch model, front view

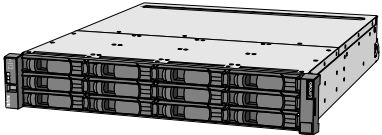



DE2000H interface rear view

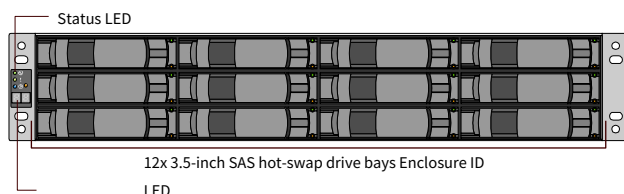


Lenovo ThinkSystem DE120S/DE240S Expansion enclosures

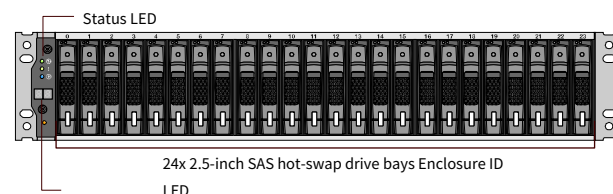
■ The options, support status, and prices listed in this catalog are current as of October 7, 2025, and are subject to change without prior notice. The displayed price is the base price for businesses and does not include consumption tax.

Product name	Lenovo ThinkSystem DE120S Expansion Enclosure [2U12 LFF (3.5-inch drive bay)]	Lenovo ThinkSystem DE240S Expansion Enclosure [2U24 SFF (2.5-inch drive bay)]
Product Number	7Y631000JP	7Y681001JP
Suggested retail price (excluding tax)	780,000 yen	780,000 yen
		
Number of I/O modules	2 (dual)	
Expansion Enclosure Ports	8 (4 per I/O module) x SFF-8644 [12GbSAS]	
Drive connection interface	12Gbps SAS	
Number of internal HDDs	12	twenty four
Built-in HDD type	3.5-inch SAS HDD/SSD	2.5-inch SAS HDD/SSD
Built-in HDD type	3.5-inch SAS HDD • 4TB/8TB/10TB/12TB/18TB/22TB (7.2KNL SAS) • 10TB (7.2KNL SAS HDD FIPS) 3.5-inch SAS SSD • 960GB/1.92TB/3.84TB (1DWD) • 1.6TB (SSD FIPS 3DWD)	2.5-inch SAS HDD • 1.2TB/1.8TB/2.4TB (10K SAS) • 1.8TB/2.4TB (10K SAS HDD FIPS) 2.5-inch SAS SSD • 960GB/1.92TB/3.84TB/7.68TB/15.36TB (1DWD) • 1.6TB (SSD FIPS 3DWD)
Environmental Response	RoHS compliant	
Power consumption (maximum)	306W(1,045Btu/h)[100-127VAC]/300W(1,024Btu/h)[200-240VAC]	389W(1,328Btu/h)[100-127VAC]/382W(1,304Btu/h)[200-240VAC]
Power supply unit	913W rated output (Platinum) / Hot-swap redundant power supply with cooling fan (2 power supplies)	
Power supply	AC 100-240V / 50-60Hz	
Size (mm)	447(W) x 483(D) x 85(H), 2U space	449(W) x 553(D) x 85(H), 2U space
Mass (kg)	Full drive load: 27.12	
Operating environment	Temperature (°C)	10 to 40 (in operation) / -10 to 50 (in storage)
	Relative humidity (%)	8 to 90 (operating) / 10 to 90 (storage)
What's in the box	Power cord (IEC320-C14 (1.5m) x2), rack mount kit, quick installation guide, various flyers, 4x external MiniSASHD8644/MiniSASHD8644 1m cable	
Service	Setup Support 90	
Guarantee	Domestic repairs	3-year parts/3-year next business day repair/warranty service (9 hours x 5 days a week/CRU)
	Overseas repairs	Yes: Follow the repair method in the country where the repair is requested (IWS International Hardware Warranty Service)

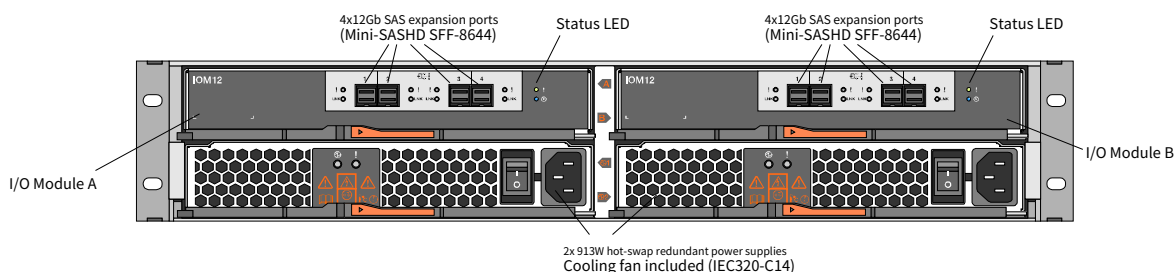
DE120S 3.5-inch model, front view



DE240S 2.5-inch model, front view



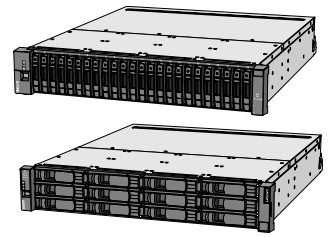
DE120S/DE240S common interface rear view



Lenovo ThinkSystem DE2000H Configuration Guide

Lenovo ThinkSystem DE2000H basic chassis

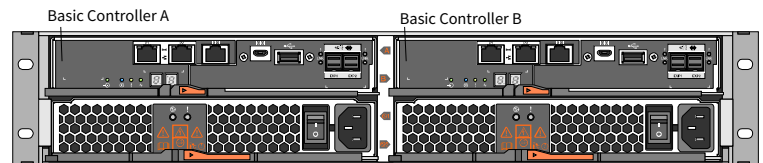
number	Product name	Suggested retail price (excluding tax)
Lenovo ThinkSystem DE2000H2U24 [2.5-inch HDD/SSD model]		
7Y71A00QJP	ThinkSystem DE2000H (Gen2/16GB cache) 2U24 SFF basic chassis Gen2 controller (8GB cache) x2, 2.5-inch bay x24, redundant power supply.	1,750,000 yen
Lenovo ThinkSystem DE2000H2U12 [3.5-inch HDD/SSD model]		
7Y70A00YJP	ThinkSystem DE2000H (Gen2/16GB cache) 2U12 LFF basic chassis Gen2 controller (8GB cache) x2, 3.5-inch bay x12, redundant power supply.	1,750,000 yen

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* Each model comes with a rackmount kit, two 1.5m 10A/100-250VC13 to IEC 320-C14 rack power cables, and one Lenovo ThinkSystem Storage USB Cable (USB Type A to Micro-USB) 2m.

DE2000H Controller Configuration Guide

Select the connected host protocol from SAS, iSCSI (optional), or Fibre Channel. Select a host interface card (HIC) based on the selected protocol. The media (transceivers, DACs, etc.) installed in the SFP+/SFP28 host ports must be of the same type. The two base controllers must have the same configuration. Two common host interface cards (HICs) must be installed. SFP+ host ports do not include transceivers.



Configurable Host Ports

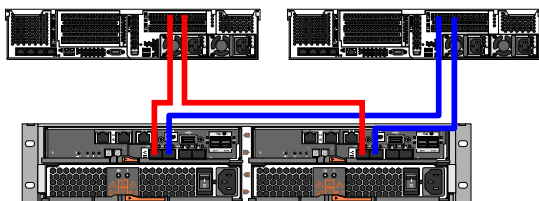
Host Protocol	Host Port	Number of ports	Controller configuration diagram
SAS	2-port 12Gb SASHIC When adding 4C57A14377	4 (2/controller)	 2x12Gb SAS host ports (Mini-SASHD SFF-8644)
	4-port 12Gb SASHIC When 4C57A14367 was added	8 (4/controller)	 4x12Gb SAS host ports (Mini-SASHD SFF-8644)
iSCSI (optional)	4-port 10/25Gb iSCSI When 4C57A14369 was added	8 (4/controller)	 4x SFP28 host ports (10/25Gb iSCSI)
Fibre Channel	4-port 8/16/32Gb FC When 4C57A14368 was added	8 (4/controller)	 4x SFP+ host ports (8Gb/16Gb/32Gb FC)

Host cabling

Direct Connect Topology

In a direct-attach topology, the host bus adapter is directly connected to the controller, as shown in the following diagram. For best performance, use all available host ports.

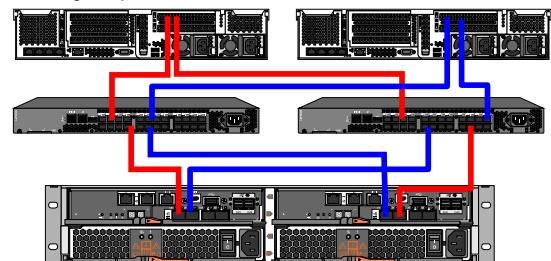
Connecting two system units to a controller



Switch Connection Topology

In topologies where a switch is used to connect hosts to controllers, the connection type between the host and controller must be supported: the host adapters in the host can be Fibre Channel or iSCSI protocol.

Connecting two system units and a switch to a controller



Host connection options

number	Product name	Suggested retail price (excluding tax)	Required number ¹	protocol
Host Interface Card (HIC) Options				
4C57A14377	TS 2-port 12Gb SASHIC (for DE2000)	80,000 yen	2	SAS
4C57A14367	TS 4-port 12Gb SASHIC (for DE2000/DE4000)	88,000 yen	2	SAS
4C57A14369	TS 4-Port 10/25GbE iSCSI HIC (for DE2000/DE4000)	220,000 yen	2	iSCSI (optical)
4C57A14368	TS 4-port 32Gb FCHIC (for DE2000/DE4000)	220,000 yen	2	Fibre Channel

*1 You must select one pair (two units) of host interface cards (HICs) according to the protocol.

number	Product name	Suggested retail price (excluding tax)	Required number ¹
SFP+ transceiver (for 16Gb/32GbFC)			
4M17A13527	10Gb iSCSI/16Gb FC Universal SFP+ Transceiver	38,000 yen	8
4M17A13528	32Gb FCSFP+ transceiver	88,000 yen	8
SFP28 transceiver (for 10Gb/25Gb iSCSI)			
4M17A13529	10/25GbE iSCSI SFP28 Transceiver	98,000 yen	8
LC-LCOM4 optical cable supporting 10Gb/25Gb iSCSI and 16Gb/32Gb FCS WSFP+/SFP28 transceivers			
4Z57A10845	Lenovo 0.5m LC-LCOM4MMF Cable	3,200 yen	8
4Z57A10846	Lenovo 1m LC-LCOM4MMF Cable	4,000 yen	8
4Z57A10847	Lenovo 3m LC-LCOM 4MMF Cable	7,600 yen	8
4Z57A10848	Lenovo 5m LC-LCOM4MMF Cable	9,200 yen	8
4Z57A10849	Lenovo 10m LC-LCOM4MMF Cable	12,600 yen	8
4Z57A10850	Lenovo 15m LC-LCOM4MMF Cable	15,000 yen	8
4Z57A10851	Lenovo 25m LC-LCOM4MMF Cable	17,700 yen	8
4Z57A10852	Lenovo 30m LC-LCOM4MMF Cable	21,100 yen	8
LC-LCOM3 optical cable supporting 10Gb/25Gb iSCSI and 16Gb/32Gb FCS WSFP+/SFP28 transceivers			
00MN499	0.5m LC-LCOM 3MM fiber cable	3,200 yen	8
00MN502	1m LC-LCOM 3MM fiber cable	4,000 yen	8
00MN505	3m LC-LCOM 3MM fiber cable	7,600 yen	8
00MN508	5m LC-LCOM 3MM fiber cable	9,200 yen	8
00MN511	10m LC-LCOM 3MM fiber cable	12,600 yen	8
00MN514	15m LC-LCOM 3MM fiber cable	15,000 yen	8
00MN517	25m LC-LCOM 3MM fiber cable	17,700 yen	8
00MN520	30m LC-LCOM 3MM fiber cable	21,100 yen	8
10Gb iSCSI DAC cable (SFP+ port)			
00D6288	0.5m Passive DAC SFP+ Cable	23,200 yen	8
90Y9427	1m Passive DAC SFP+ Cable	29,000 yen	8
00AY764	1.5m Passive DAC SFP+ Cable	31,000 yen	8
00AY765	2m Passive DAC SFP+ Cable	33,000 yen	8
90Y9430	3m Passive DAC SFP+ Cable	34,800 yen	8
90Y9433	5m Passive DAC SFP+ Cable	46,400 yen	8
00D6151	7m Passive DAC SFP+ Cable	58,000 yen	8
25Gb iSCSI DAC Cable (SFP28 Port)			
7Z57A03557	1m Passive 25G SFP28 DAC Cable	20,000 yen	8
7Z57A03558	3m Passive 25G SFP28 DAC Cable	25,000 yen	8
SAS cable for 12GbHBA host connection			
00YL847	External MiniSASHD8644/MiniSASHD8644 0.5m cable (SFF-8644 to SFF-8644)	12,000 yen	8
00YL848	External MiniSASHD8644/MiniSASHD8644 1m cable (SFF-8644 to SFF-8644)	15,000 yen	8
00YL849	External MiniSASHD8644/MiniSASHD8644 2m cable (SFF-8644 to SFF-8644)	19,000 yen	8
00YL850	External MiniSASHD8644/MiniSASHD8644 3m cable (SFF-8644 to SFF-8644)	25,000 yen	8
CAT6 cable for 1/10Gb iSCSI RJ-45 connection and 1GbE management port			
00WE123	0.75m GreenCAT6 Cable	3,600 yen	6
00WE127	1.0m GreenCAT6 Cable	3,800 yen	6
00WE131	1.25m GreenCAT6 Cable	4,000 yen	6
00WE135	1.5m GreenCAT6 cable	4,200 yen	6
00WE139	3m GreenCAT6 cable	4,400 yen	6

*1 The required number is the maximum number connected to the controller.

● Power cable options

Please prepare two rack power cables and power cords (for redundant power supply).

number	Product name	Suggested retail price (excluding tax)	Required number
Rack Power Cables			
00Y3043	1.0m C13 to C14 Jumper Cord, Rack Power Cable	11,000 yen	2
4L67A08367	1.0m 13A/100-250V C13 to C14 Jumper Cable	4,200 yen	2
39Y7937	1.5m 10A/100-250V C13 to IEC320-C14 Rack Power Cable	3,600 yen	2
4L67A08368	1.5m 13A/100-250V C13 to C14 Jumper Cable	4,800 yen	2
4L67A08365	2.0m 10A/100-250V C13 to C14 Jumper Cable	4,800 yen	2
4L67A08369	2.0m 13A/100-250V C13 to C14 Jumper Cable	5,400 yen	2
4L67A08366	2.8m 10A/100-250V C13 to C14 Jumper Cable	5,400 yen	2
4L67A08370	2.8m 13A/100-250V C13 to C14 Jumper Cable	6,000 yen	2
39Y7932	IEC C13 to C14 Jumper Power Cable (4.3m)	4,800 yen	2
4L67A08371	4.3m 13A/100-250V C13 to C14 Jumper Cable	7,200 yen	2
39Y7938	IEC C13 to C20 Jumper Power Cable (2.8m)	6,000 yen	2
100V power cord			
46M2593	12A/125V C13 to JISC-8303 2.8m line cord	4,200 yen	2
39Y7926	NEMA5-15P to IEC C13 power cable (4.3m)	4,800 yen	2
200V power cord			
4L67A08357	2.8m power cord (12A/200V C13 to JISC-8303 for Japan)	3,600 yen	2
4L67A08362	4.3m power cord (12A/200V C13 to JISC-8303 for Japan)	6,600 yen	2

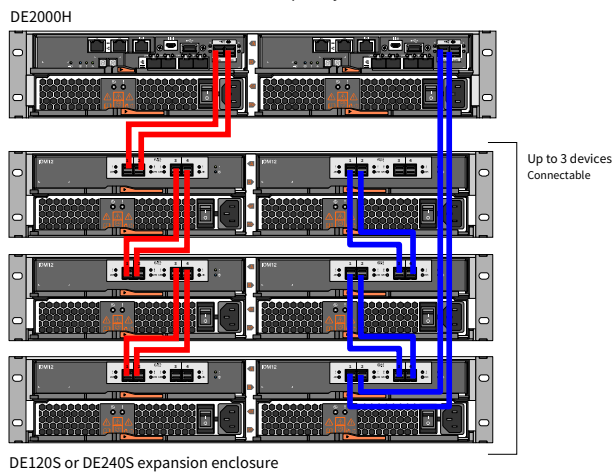
* For DE2000H 2U12 (7Y70A00YJP), DE2000H 2U24 (7Y71A00QJP), DE120S (7Y631000JP), and DE240S (7Y681001JP)

Two 1.5m 10A/100-250V C13 to IEC 320-C14 rack power cables (equivalent to 39Y7937) are included as standard.

● DE2000H+DE120S/DE240S Expansion Enclosure Configuration Guide

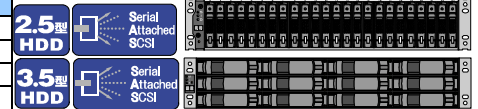
The ThinkSystem DE2000H controller can connect up to three DE120S or DE240S expansion enclosures, and DE120S or DE240S enclosures can be mixed on a single controller.

DE120S or DE240S expansion enclosures can be added non-disruptively.



■ Lenovo ThinkSystemDE Series Expansion Enclosure

number	Product name	Suggested retail price (excluding tax)
Extended Storage		
7Y681001JP	ThinkSystemDE240S 2U24 SFF Expansion Enclosure Dual I/O module with 24 x 2.5-inch bays, redundant power supply, and four external MiniSASHD8644 1m cables.	780,000 yen
7Y631000JP	ThinkSystemDE120S 2U12 LFF Expansion Enclosure Dual I/O module with 12 x 3.5-inch bays, redundant power supply, and four external MiniSASHD8644 1m cables.	780,000 yen



* Each model comes with a rackmount kit and two 1.5m 10A/100-250VC13 to IEC 320-C14 rack power cables.

Expansion enclosure connection options

number	Product name	Suggested retail price (excluding tax)	Required number
00YL847	External MiniSASHD8644/MiniSASHD8644 0.5m cable (SFF-8644 to SFF-8644)	12,000 yen	4/8/12
00YL848	External MiniSASHD8644/MiniSASHD8644 1m cable (SFF-8644 to SFF-8644)	15,000 yen	4/8/12
00YL849	External MiniSASHD8644/MiniSASHD8644 2m cable (SFF-8644 to SFF-8644)	19,000 yen	4/8/12
00YL850	External MiniSASHD8644/MiniSASHD8644 3m cable (SFF-8644 to SFF-8644)	25,000 yen	4/8/12



*1 Four cables are required to connect the controller and expansion enclosures, or to daisy-chain expansion enclosures. The DE120S (7Y631000JP) and DE240S (7Y681001JP) come standard with four external MiniSASHD 8644/MiniSASHD8644 1m cables (00YL848 equivalent).

● Drive options

Mixing HDDs and SSDs within a storage system is supported. Mixing HDDs and SSDs within a volume group or disk pool is not supported. Mixing FIPS and non-FIPS drives within a storage system is supported. Mixing FIPS and non-FIPS drives within a volume group or disk pool is not supported.

For [2U12 LFF 3.5-inch drive model] (DE2000H/DE120S)

number	Product name	Suggested retail price (excluding tax)	maximum number
3.5-inch 12Gb NLSAS hot-swap HDD			
4XB7A14099	TS 4TB 7.2K 3.5-inch HDD (for DE Series 2U12)	114,000 yen	12
4XB7A14101	TS 8TB 7.2K 3.5-inch HDD (for DE Series 2U12)	200,000 yen	12
4XB7A14102	TS 10TB 7.2K 3.5-inch HDD (for DE Series 2U12)	240,000 yen	12
4XB7A14104	TS 12TB 7.2K 3.5-inch HDD (for DE Series 2U12)	300,000 yen	12
4XB7A64875	TS 16TB 7.2K 3.5-inch HDD (for DE Series 2U12)	420,000 yen	12
4XB7A74942	TS 18TB 7.2K 3.5-inch HDD (for DE Series 2U12)	460,000 yen	12
4XB7A88027	TS 22TB 7.2K 3.5-inch HDD (for DE Series 2U12)	490,000 yen	12
3.5-inch 12Gb NLSAS Hot-Swap HDD FIPS (SED) [Self-Encrypting Drive: HDD with self-encrypting function]			
4XB7A14103	TS 10TB 7.2K 3.5-inch HDD FIPS (for DE Series 2U12)	240,000 yen	12
3.5-inch 12Gb SAS hot-swap SSD (DWPDP: Drive Writes Per Day)			
4XB7A74946	TS 960GB 1DWD 2.5-inch SSD (for DE Series 2U12) 1DWPDP	280,000 yen	12
4XB7A74947	TS 1.92TB 1DWD 2.5-inch SSD (for DE Series 2U12) 1DWPDP	470,000 yen	12
4XB7A74954	TS 3.84TB 1DWD 2.5-inch SSD (for DE Series 2U12) 1DWPDP	840,000 yen	12
4XB7A14097	TS 800GB 3DWD 2.5-inch SSD (for DE Series 2U12) 3DWPDP	350,000 yen	12
3.5-inch 12Gb SAS hot-swap SSD FIPS (SED) [Self-Encrypting Drive: SSD with self-encrypting function]			
4XB7A14098	TS 1.6TB 3DWD 2.5-inch SSD FIPS (for DE Series 2U12) 3DWPDP	600,000 yen	12
4XB7A88501	TS 3.84TB 1DWD 2.5-inch SSD FIPS (for DE series 2U12) 1DWPDP	940,000 yen	12





[2U24 SFF 2.5-inch drive model] (DE2000H/DE240S)

number	Product name	Suggested retail price (excluding tax)	maximum number
2.5-inch 12GbSAS hot-swap HDD			
4XB7A14112	TS 1.2TB10K 2.5-inch HDD (for DE Series 2U24)	112,000 yen	twenty four
4XB7A14113	TS 1.8TB10K 2.5-inch HDD (for DE Series 2U24)	184,000 yen	twenty four
4XB7A88046	TS 2.4TB10K 2.5-inch HDD (for DE Series 2U24)	206,000 yen	twenty four
2.5-inch 12Gb SAS Hot-Swap HDD FIPS (SED) [Self-Encrypting Drive: HDD with self-encrypting function]			
4XB7A14114	TS 1.8TB10K 2.5-inch HDD FIPS (for DE series 2U24)	184,000 yen	twenty four
4XB7A88048	TS 2.4TB10K 2.5-inch HDD FIPS (for DE series 2U24)	206,000 yen	twenty four
2.5-inch 12Gb SAS hot-swap SSD (DWPDP: Drive Writes Per Day)			
4XB7A74948	TS 960GB 1DWD 2.5-inch SSD (for DE Series 2U24) 1DWPDP	280,000 yen	twenty four
4XB7A74951	TS 1.92TB 1DWD 2.5-inch SSD (for DE Series 2U24) 1DWPDP	470,000 yen	twenty four
4XB7A74955	TS 3.84TB 1DWD 2.5-inch SSD (for DE Series 2U24) 1DWPDP	840,000 yen	twenty four
4XB7A14173	TS 3.84TB 1DWD 2.5-inch SSD (for DE Series 2U24) 1DWPDP	880,000 yen	twenty four
4XB7A14176	TS 7.68TB 1DWD 2.5-inch SSD (for DE Series 2U24) 1DWPDP	1,680,000 yen	twenty four
4XB7A14110	TS 15.36TB 1DWD 2.5-inch SSD (for DE Series 2U24) 1DWPDP	3,180,000 yen	twenty four
4XB7A14105	TS 800GB 3DWD 2.5-inch SSD (for DE Series 2U24) 3DWPDP	350,000 yen	twenty four
4XB7A14106	TS 1.6TB 3DWD 2.5-inch SSD (for DE Series 2U24) 3DWPDP	600,000 yen	twenty four
2.5-inch 12Gb SAS hot-swap SSD [Self-Encrypting Drive: SSD with self-encrypting function]			
4XB7A88466	TS 15.36TB 1DWD 2.5-inch SSD SED (for DE series 2U24) 1DWPDP	3,180,000 yen	twenty four
2.5-inch 12Gb SAS hot-swap SSD FIPS (SED) [Self-Encrypting Drive: SSD with self-encrypting function]			
4XB7A14107	TS 1.6TB 3DWD 2.5-inch SSD FIPS (for DE Series 2U24) 3DWPDP	600,000 yen	twenty four
4XB7A88469	TS 3.84TB 1DWD 2.5-inch SSD FIPS (for DE series 2U24) 1DWPDP	940,000 yen	twenty four



● Software

The ThinkSystemDE2000H includes the following features:

Standard Features				
Supports RAID 0, 1, 3, 5, 6, 10	You have the flexibility to choose the RAID level that provides data protection.			
Dynamic Disk Pool (DDP) Technology	Distributing data and built-in spare capacity across all physical drives in a storage pool improves performance and availability through significantly faster rebuild times and reduced impact from multiple drive failures.			
SSD read cache	Improve performance for read-intensive workloads by installing SSDs as a read cache.			
Thin Provisioning	Allocate storage space based on the minimum space required by each application to optimize the efficiency of your dynamic disk pool. Applications only consume the space they use within their allocated space, not the total physical drive space, protecting your investment by allowing you to add capacity when you need it.			
Snapshots (up to 128)	Enables you to create copies of data for backup, parallel processing, test, and development, and makes the copies available almost instantly. Standard feature allows you to take up to 128 snapshots.			
encryption	Enhance data security by providing encryption of data at rest using optional FIPS drives and built-in key management or an external key management server.			
Automatic Load Balancing	Automates load balancing of I/O traffic between the host and the two controllers.			
Data preservation function (Data assurance)	It improves data integrity throughout the storage system by checking for errors that may occur when data is transferred from the host through the controller to the drive.			
Dynamic Volume Expansion	You can expand the capacity of a volume by adding new physical drives or by utilizing unused space on existing drives.			
Additional functionality via software options (FoD)				
number	Product name	Suggested retail price (excluding tax)	Purchase conditions	
4ZN7A14703	(FoD)TS 512 Snapshot Upgrade (for DE2000H)	190,000 yen	FoD	
Snapshots (up to 512)	Up to 512 snapshots can be taken			
4ZN7A14705	(FoD)TS Asynchronous Mirroring (for DE2000H)	190,000 yen	FoD	
Asynchronous Mirroring	It provides storage-system-based data replication between a primary (local) volume and a secondary (remote) volume storage system using asynchronous data transfer over iSCSI or Fibre Channel communication links. Both storage systems require an asynchronous mirroring license (FoD).			

■ About Features on Demand (hereinafter FoD)



- The FoD upgrade option activates functions installed on the server or optional product using a software key called the FoD activation key. The FoD activation key unlocks the features. The features unlocked by FoD are built into the firmware or software of the server or optional product, but are usually locked. By activating the FoD activation key, the lock is released and the features become available.

To activate FoD, sign in to the Lenovo Key Management System (KMS) website and do so in your web browser.

Lenovo Key Management System (KMS) website: <https://fod.lenovo.com/lkms/>



If you are using the Lenovo Key Management System (KMS) website for the first time, please be sure to register as a user. (Activation registration information processed on the old site can also be viewed on the Lenovo Key Management System (KMS) website.) The user registration here will result in a Lenovo ID that is exclusive to the Key Management System (KMS) website.

You can request an activation key or re-acquire an existing activation key on the Key Management System (KMS) website.

The Tools Center also contains two tools, the Advanced Setting Utility (ASU) and Dynamic System Analysis (DSA), which can be used to manage FoD activation keys.

- You can order the FoD option at any time, even after purchasing the server.



The Feature On Demand Activation Instructions delivered electronically with your purchased FoD option contain an Authorization Code for generating a valid activation key. You can generate and download an activation key by registering on the Lenovo Key Management System (KMS) website.



Please refer to the following technical documentation about Features on Demand. Feature on Demand (FOD) License Activation Guide

https://download.lenovo.com/pccbbs/dcgisupport/dcgip_ti_actg_fod.pdf

Contact for inquiries regarding FoD license acquisition

If you have any problems with your web browser, such as generating an activation key on the FoD website or downloading from history, please contact us at the email address below.

ESDAP@lenovo.com (We accept inquiries in Japanese.)

● Supported OS

For the latest information on supported operating systems, please refer to the Lenovo Storage Interoperation Center.

<https://datacentersupport.lenovo.com/us/en/lsc>



● Lenovo Services

This is an upgrade to the warranty/maintenance service level and service period for customers who purchase Lenovo Enterprise Solutions (LES) products. You can upgrade at a discounted price compared to the regular maintenance service fee.

LenovoServicesProduct Contents

Service details	Premier
	CRU:-Even if the problem is with the equipment, a technician will visit the customer's equipment installation site and repair it. A dedicated phone number and a single point of contact with Lenovo's highly trained technical team. • In addition to isolating hardware and software failures, we also work with the hardware technology department and each third-party software support department. We will work together to help resolve any issues. - Remote consultants will manage the problem from occurrence to resolution, and provide setup and problem resolution support based on publicly available information.
	LenovoServices KYD (HDD delivery) service
	The technician will not take away any parts removed during machine repair (owned by LES), but will return them to you as your property. These parts include HDDs, SSDs, Flash I/O Drives, Flash memory modules, and Lenovo Server USB flash keys.
Service Period	Choose from 1 year, 3 years, 4 years, 5 years, 1 year continuation, or 2 years continuation from the start of the machine warranty period
Service Hours*2	24×7: Monday to Sunday 00:00 - 24:00 (24 hours x 7 days a week) / NBD(9×5): Monday to Friday 09:00 - 18:00 (9 hours x 5 days a week)

- *1 For more information about CRUs, refer to the Lenovo Server Product Warranty Guide, <https://download.lenovo.com/pccbbs/drgesupport/warranty.pdf> For customers who require a time-based service, we also offer a "24-hour x 7-days-a-week service within 4 hours." This service is only available in certain areas, so please check whether the equipment installation location is in the applicable area and consult with our sales representative regarding the product number, etc.
- *2

Important points to note when purchasing Lenovo Services

- Lenovo Services can only be registered during the standard warranty period, and the 1-year, 3-year, 4-year, and 5-year service periods include the warranty period. 1-year and 2-year extended services can only be purchased and registered during the warranty period or maintenance contract period.
- The price for Lenovo Services product numbers is a one-time fee for the duration of the service (not a one-year fee).
- Machines eligible for sale by Lenovo Services may be added or removed from time to time. When purchasing Lenovo Services, please check the latest information by searching for machines eligible for Lenovo Services at the following URL: [Lenovo Services: https://support.lenovo.com/ip/ja/solutions/HT511790](https://support.lenovo.com/ip/ja/solutions/HT511790)
- Service registration is the process by which Lenovo certifies your purchased hardware product for the services you have purchased. We recommend that you complete your Lenovo Services registration within 30 days of receiving your pack.

ThinkSystemDE2000H2U24 Basic Chassis (7Y71A00QJP) [3-year parts/3-year next-business-day repair/warranty service (9 hours x 5 days/CRU)]

● Lenovo Services Premier 24x7

Same-day response (24 hours x 7 days a week) non-CRU		
Item number	Service Period	Standard price (excluding tax)
5WS7C04317	3 years	157,300 yen
5WS7C04318	4 years	384,600 yen
5WS7C04319	5 years	611,700 yen

● LenovoServicesPremierNBD

Next business day response (9 hours x 5 days a week) non-CRU		
Item number	Service Period	Standard price (excluding tax)
5WS7C04312	3 years	142,900 yen
5WS7C04313	4 years	349,900 yen
5WS7C04314	5 years	556,300 yen

LenovoServicesKYD (HDD delivery)

Item number	Service Period	Standard price (excluding tax)
5PS7C04342	3 years	70,900 yen
5PS7C04343	4 years	85,100 yen
5PS7C04344	5 years	111,100 yen

Important points to note when purchasing Lenovo Services KYD (HDD delivery)

LenovoServices KYD is an optional product and cannot be purchased separately. You must purchase the same model number as the service period at the same time as Lenovo Services.

ThinkSystemDE2000H2U12 Base Chassis (7Y70A00YJP) [3-year parts/3-year next-business-day repair/warranty service (9 hours x 5 days/CRU)]

● Lenovo Services Premier 24x7

Same-day response (24 hours x 7 days a week) non-CRU		
Item number	Service Period	Standard price (excluding tax)
5WS7C04277	3 years	161,600 yen
5WS7C04278	4 years	463,000 yen
5WS7C04279	5 years	616,000 yen

● LenovoServicesPremierNBD

Next business day response (9 hours x 5 days a week) non-CRU		
Item number	Service Period	Standard price (excluding tax)
5WS7C04272	3 years	146,700 yen
5WS7C04273	4 years	353,600 yen
5WS7C04274	5 years	560,000 yen

LenovoServicesKYD (HDD delivery)

Item number	Service Period	Standard price (excluding tax)
5PS7C04302	3 years	70,900 yen
5PS7C04303	4 years	85,100 yen
5PS7C04304	5 years	111,100 yen

Important points to note when purchasing Lenovo Services KYD (HDD delivery)

LenovoServices KYD is an optional product and cannot be purchased separately. You must purchase the same model number as the service period at the same time as Lenovo Services.

ThinkSystemDE2405U24 Expansion Enclosure (7Y681001JP) [3-year parts/3-year next-business-day repair/warranty service (9 hours x 5 days/CRU)]

● Lenovo Services Premier 24x7

Same-day response (24 hours x 7 days a week) non-CRU		
Item number	Service Period	Standard price (excluding tax)
5WS7C04207	3 years	164,800 yen
5WS7C04208	4 years	279,000 yen
5WS7C04209	5 years	393,100 yen

● LenovoServicesPremierNBD

Next business day response (9 hours x 5 days a week) non-CRU		
Item number	Service Period	Standard price (excluding tax)
5WS7C04202	3 years	149,900 yen
5WS7C04203	4 years	253,900 yen
5WS7C04204	5 years	357,300 yen

LenovoServicesKYD (HDD delivery)

Item number	Service Period	Standard price (excluding tax)
5PS7C04227	3 years	70,900 yen
5PS7C04228	4 years	85,100 yen
5PS7C04229	5 years	111,100 yen

Important points to note when purchasing Lenovo Services KYD (HDD delivery)

LenovoServices KYD is an optional product and cannot be purchased separately. You must purchase the same model number as the service period at the same time as Lenovo Services.

ThinkSystemDE1205U12 Expansion Enclosure (7Y631000JP) [3-year parts/3-year next-business-day repair warranty (9 hours x 5 days/CRU)]

● Lenovo Services Premier 24x7

Same-day response (24 hours x 7 days a week) non-CRU		
Item number	Service Period	Standard price (excluding tax)
5WS7C04172	3 years	160,500 yen
5WS7C04173	4 years	267,800 yen
5WS7C04174	5 years	374,400 yen

● LenovoServicesPremierNBD

Next business day response (9 hours x 5 days a week) non-CRU		
Item number	Service Period	Standard price (excluding tax)
5WS7C04167	3 years	146,100 yen
5WS7C04168	4 years	243,800 yen
5WS7C04169	5 years	340,300 yen

LenovoServicesKYD (HDD delivery)

Item number	Service Period	Standard price (excluding tax)
5PS7C04192	3 years	70,900 yen
5PS7C04193	4 years	85,100 yen
5PS7C04194	5 years	111,100 yen

Important points to note when purchasing Lenovo Services KYD (HDD delivery)

LenovoServices KYD is an optional product and cannot be purchased separately. You must purchase the same model number as the service period at the same time as Lenovo Services.

Professional Services

● Platform implementation service

The platform implementation service involves visiting your site to install Lenovo hardware, software, and apply firmware. The service covers the entire Japanese area and is available during standard business hours (Monday-Friday 9:00-18:00 (excluding public holidays and the New Year holidays)), as well as outside of standard business hours. Please select the option that best suits your work schedule. Technicians with extensive knowledge and skills in Lenovo products will visit you to install the hardware, software, etc., so you can trust us with peace of mind.

■ Hardware equipment installation service

Service Model Number	Maintenance service name	Estimate unit
Service products for ThinkSystemDE2000H2U24/2U12/DE120S/DE240S		
5AS7A02366	Equipment Installation Service - Storage (Advanced) [within standard hours]	Per storage unit
5AS7A02368	Equipment Installation Service - Storage (Advanced) [Outside of Standard Hours]	Per storage unit

Standard hours: Monday to Friday 9:00-18:00 (excluding public holidays and the New Year holidays)

Outside standard hours: Excluding standard hours

work item	Work content
Equipment installation service ~Storage	<p>*Work will not be carried out on any items other than those listed below.</p> <p>Confirmation of delivery of target device</p> <p>Built-in disk storage</p> <p>Installation and cabling work according to the specified rack installation diagram and connection wiring information. Creation and attachment of cable labels for the cables to be wired (connection wiring information required). Transporting used packaging materials to the customer's designated waste disposal area and recycling facility within the facility, or to a designated location near the installation site.</p>

For more information, please refer to the URL below.

Platform implementation services: <https://support.lenovo.com/jp/ja/solutions/HT511791>

● Deployment Services

Configuration services for standard systems and software according to customer requirements.

Work content
<ul style="list-style-type: none"> • Ensure that the correct equipment has been delivered and installed correctly. • Ensure that network, SAN, and power cables are properly connected. • Ensure that the installed firmware and software versions are up to date, and apply updates if necessary. • Initial setup of storage products based on customer configuration requirements • Skill transfer (up to 1 hour)

Service Model Number	Maintenance service name	Estimate unit
5MS7A24105	ThinkSystemDE Deployment Services	Per basic storage unit

Standard hours: Monday to Friday 9:00-18:00 (excluding public holidays and the New Year holidays)

● Setup Support 90 (standard attachment)

This service answers technical inquiries regarding installation for three months from the warranty start date.

Service details

• Support for the installation and initial setup of the main unit, and the installation and setup of each optional product • Support for any questions about the included technical documentation

Service hours

• Monday to Friday 9:00-17:00 (excluding public holidays and December 30th to January 3rd).

For more information, please refer to the URL below. <https://support.lenovo.com/jp/ja/solutions/HT511788>

Regarding product inquiries

Business Partner General Contact Point



Tech_ISR@lenovo.com

Server/storage products (ThinkSystem/Systemx/ThinkServer/storage/network products) (including direct sales customers)

- Contact point for hardware and software failures and initial defects of purchased products



0120-34-0000

[IBM Service Line]

(Toll-free number) Follow the guidance and select a contact point.

Reception hours: 24 hours (reception hours for individual offices vary depending on the customer's contract details)

- Dedicated reception desk for customers who have contracted for Premier Support Service, and customers who have purchased ThinkAgile products and Lenovo OEM VMware products*



0120-66-8600

*This number will be accepted for VMware products released after December 26, 2017.

Please note that the service provider is different from the announced product, so please be careful when contacting us.

Reception hours: 24 hours

- Post-purchase installation setup technical consultation (Setup Support 90)



xserver@lenovo.com

(Inquiries by email only.)

Installation setup is technical support for the initial installation of Lenovo server-related products and options, and for the installation of Lenovo's OEMOS products. Please refer to the URL below (Lenovo Setup Support 90) for information on how to contact us and how we can assist you.



<https://support.lenovo.com/jp/ja/solutions/HT511788>

General service inquiries

- Service reception desk



serviceqa@lenovo.com

others

- Contact point for export control non-applicability certificate applications

The following dedicated website is available:



<http://www.lenovo.com/jp/info/export.html>

- IWS International Hardware Warranty Service

For details about the IWS International Hardware Warranty Service, please refer to the following website:



<https://datacentersupport.lenovo.com/jp/ja/solutions/HT505205>

On the above website, please click on the link for the applicable product to check the support site for the applicable product (machine type) and the countries in which IWS is implemented for each applicable product.

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Lenovo

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