

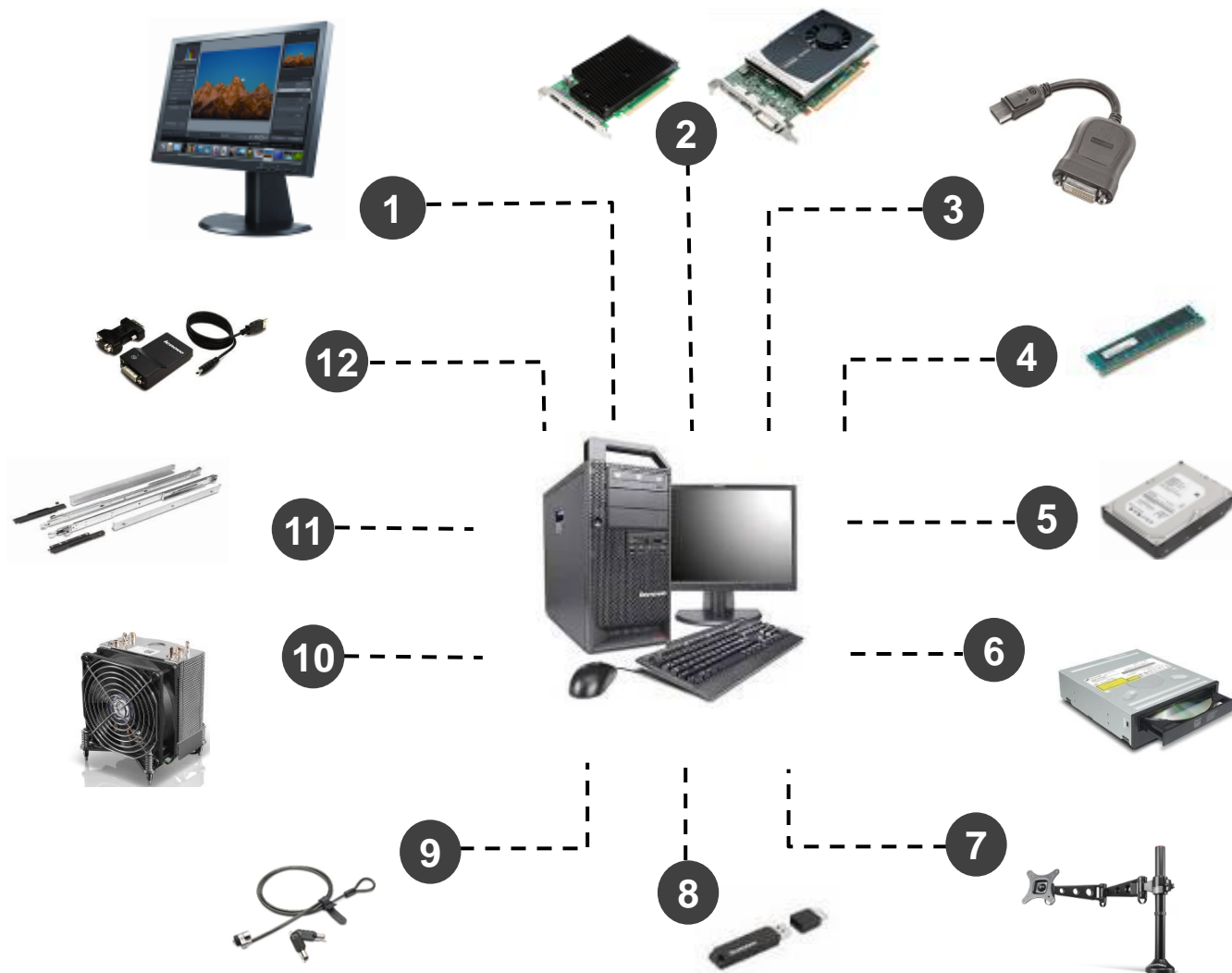
lenovo[®]

ThinkStation E30, S20, C20, C20x, D20 Top Options

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**Gary Carlson
WW Product Operations, Software & Peripherals BU**

ThinkStation E30, S20, C20, C20x, D20 Top Options



- 1 **ThinkVision Monitor**
- 2 **Graphic Card**
- 3 **DisplayPort Monitor Cable**
- 4 **Memory**
- 5 **Hard Drive Storage**
- 6 **Blu-ray Burner**
- 7 **ThinkCentre Extend Arm**
- 8 **Secure Memory Key**
- 9 **Security Cable Lock**
- 10 **ThinkStation 2nd Processor Heatsink (C20, C20x, D20 only)**
- 11 **ThinkStation Rail Kit (C20, C20x, D20 only)**
- 12 **USB-to-DVI Monitor Adapter**

www.lenovoquickpick.com
www.lenovo.com/support/thinkstationaccessories



ThinkStation E30, S20, C20, C20x, D20 Top Options

	Top Options - ThinkStation E30, S20, C20, C20x, D20	Part Number	E30	S20	C20	C20X	D20
1	Lenovo ThinkVision Monitors		Yes	Yes	Yes	Yes	Yes
2	NVIDIA NVS 295 Dual-DisplayPort	43R1765	Yes	Yes	Yes	Yes	Yes
	NVIDIA NVS 300 Dual-DVI, Dual-VGA	0A36528	Yes	Yes	Yes	Yes	Yes
	NVIDIA NVS 450 Quad-DisplayPort, Quad-DVI-D	57Y4398	Yes	Yes	Yes	Yes	Yes
	NVIDIA Quadro 400 DVI, DisplayPort	0A36535	Yes	Yes	Yes	Yes	Yes
	NVIDIA Quadro 600 DVI-I, Dual-DisplayPort	0A36183	Yes	Yes	Yes	Yes	Yes
	NVIDIA Quadro 2000 DVI-I, Dual-DisplayPort	57Y4479	Yes	Yes	Yes	Yes	Yes
	NVIDIA Quadro 2000D Dual-DVI	0A36541	Yes	Yes	Yes	Yes	Yes
3	NVIDIA Quadro 4000 DVI-I, Dual-DisplayPort, Stereo	57Y4480	No	Yes	Yes	Yes	Yes
	NVIDIA Quadro 5000 DVI-I, Dual-DisplayPort, Stereo	57Y4481	No	Yes	Yes	Yes	Yes
3	DisplayPort to Single-Link DVI-D Monitor Cable	45J7915	Yes	Yes	Yes	Yes	Yes
	DisplayPort to DisplayPort Monitor Cable	0A36537	Yes	Yes	Yes	Yes	Yes
4	PC3-10600 DDR3-1333 UDIMM – 2GB	57Y4390	Yes	No	No	No	No
	PC3-10600 DDR3-1333 UDIMM – 4GB	0A36527	Yes	No	No	No	No
	PC3-10600 DDR3-1333 ECC UDIMM Memory – 2GB, 4GB	43R2033, 57Y4138	Yes	Yes	Yes	Yes	Yes
	PC3-10600 DDR3-1333 ECC RDIMM Memory – 2GB, 4GB, 8GB	57Y4425, 57Y4426, 57Y4427	No	No	Yes	Yes	Yes
5	SATA 7200 rpm Hard Drive – 250GB, 500GB, 1TB	41N3015, 43R1990, 45J7918	Yes	Yes	Yes	Yes	Yes
	SATA 10k rpm Hard Drive – 300GB	43R2031	Yes	Yes	Yes	Yes	Yes
	SAS 15k rpm Hard Drive – 450GB	43N3424	No	Yes*	No	Yes	Yes
6	Blu-ray Burner SATA Optical Drive	43R1675	Yes	Yes	Yes	Yes	Yes
7	ThinkCentre Extend Arm	57Y4352	Yes	Yes	Yes	Yes	Yes
8	Lenovo USB Ultra Secure Memory Key – 4GB, 8GB	57Y4327, 57Y4328	Yes	Yes	Yes	Yes	Yes
9	Kensington Security Cable Lock by Lenovo	73P2582	Yes	Yes	Yes	Yes	Yes
	Kensington Twin Head Cable Lock from Lenovo	45K1620	Yes	Yes	Yes	Yes	Yes
10	ThinkStation C20, C20x-Series Heatsink	0A65720	No	No	Yes	Yes	No
	ThinkStation D20-Series Heatsink	0A65719	No	No	No	No	Yes
11	ThinkStation C-Series, D-Series Rail Kit	57Y4482	No	No	Yes	Yes	Yes
12	Lenovo USB-to-DVI Monitor Adapter	45K5296	Yes	Yes	Yes	Yes	Yes
13	Intel® Xeon® Processor E5606 (8M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	0A36531	No	No	Yes	Yes	Yes
	Intel® Xeon® Processor E5607 (8M Cache, 2.26 GHz, 4.80 GT/s Intel® QPI)	0A36532	No	No	Yes	Yes	Yes
	Intel® Xeon® Processor E5645 (12M Cache, 2.40 GHz, 5.86 GT/s Intel® QPI)	0A36533	No	No	Yes	Yes	Yes
	Intel® Xeon® Processor E5649 (12M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI)	0A36534	No	No	Yes	Yes	Yes

All processor Option Part Numbers will be discontinued in March. Beginning April, only ThinkStation Heatsinks will be available. Second Xeon Processor is purchased from Intel Channel Partner.

ThinkStation E30, S20, C20, C20x, D20 Top Options

Lenovo ThinkVision Monitors



Note: DisplayPort to DisplayPort Monitor Cable (0A36537) is required when attaching the ThinkVision LT2452p, LT2252p, LT1952p Monitors to the systems DisplayPort monitor port.



Product	LT2452p	L2321x Wide	L2251x Wide	LT2252p	L2250p Wide	L1900p	LT1952p
Model	4420-MB2	4014-HB6	2578-HB6	2572-HD6	2572-HB6	4431-HE1	2448-MB6
Monitor Size	24.0-inch wide	23.0-inch, 584mm	22.0-inch, 559mm	22.0-inch wide	22.0-inch, 559mm	19.0-inch 483mm	19.0-inch wide
Panel Technology	WLED, e-IPS	CCFL, TN	CCFL, TN	WLED, TN	CCFL, TN	CCFL, TN	WLED, TN
Resolution	1920 x 1200	1920 x 1080	1680 x 1050	1680 x 1050	1680 x 1050	1280 x 1024	1440 x 900
Video Input	VGA, DVI, DisplayPort	VGA, DisplayPort	VGA, DisplayPort	VGA, DVI, DisplayPort	VGA, DVI	VGA, DVI	VGA, DVI, DisplayPort
Video Cables	VGA, DVI	VGA, DisplayPort	VGA, DisplayPort	VGA, DVI	VGA, DVI	VGA, DVI	VGA, DVI
Stand Function	Lift, Tilt, Swivel, Pivot	Lift, Tilt, Swivel, Pivot	Lift, Tilt, Swivel, Pivot	Lift, Tilt, Swivel, Pivot	Lift, Tilt	Lift, Tilt, Swivel, Pivot	Lift, Tilt, Swivel
Camera / Mic	----	----	Yes	----	----	----	----
USB Hub	1-up, 3-down	1-up, 4-down	1-up, 3-down	----	None	None	None
Soundbar	45K1263**	45K1263**	45K1263**	45K1263**	45K1263**	45K1263**	45K1263**
Environmental Attributes	TCO Certified Edge 1.1 TCO 5.1	TCO Certified Edge	TCO Certified Edge	TCO Certified Edge 1.1 TCO 5.1	TCO'05	TCO'03	TCO Certified Edge 1.1 TCO 5.1
	EPEAT Gold	EPEAT Gold	EPEAT Gold	EPEAT Gold	EPEAT Gold	EPEAT Gold	EPEAT Gold
	ENERGY STAR 5.0	ENERGY STAR 5.0	ENERGY STAR 5.0	ENERGY STAR 5.0	ENERGY STAR 5.0	ENERGY STAR 5.0	ENERGY STAR 5.0
	Mercury-Free (WLED)		Mercury-Free (WLED)	Mercury-Free (WLED)			Mercury-Free (WLED)
			Low Halogen				
	Arsenic Free Glass	Arsenic Free Glass			Arsenic Free Glass	Arsenic Free Glass	

www.lenovo.com/support/monitors
www.lenovo.com/support/monitoraccessories

Notes: ** Indicates U.S. part number for ThinkVision Soundbar
 (1) Under ENERGY STAR 5.0 test condition
 (2) EPEAT registrations vary by country, go to www.epeat.net

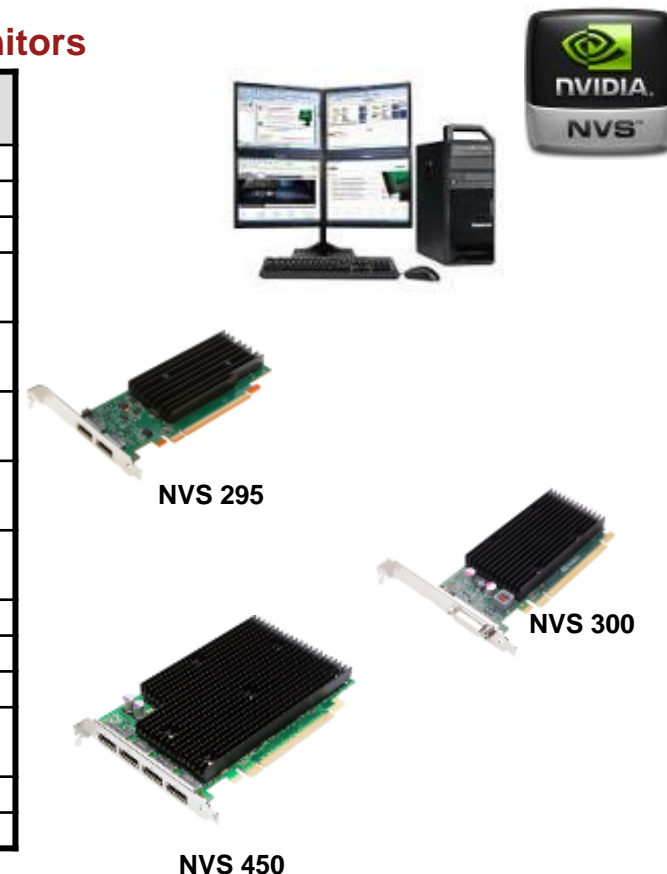


ThinkStation E30, S20, C20, C20x, D20 Top Options

NVIDIA NVS 2D-Business Graphics Multiple Monitor Graphic Cards

Professional 2D business graphics, multiple monitors, enhanced productivity with multiple monitors

	NVS 295 Dual DisplayPort	NVS 300 Dual-DVI, Dual-VGA	NVS 450 Quad-DisplayPort, Quad-DVI
Option Part Number	45K1669	0A36528	57Y4398
Memory Configuration	256MB GDDR3 64-bit	512MB DDR3	512MB 128-bit
Memory Bandwidth	11.2 GB/sec	12.6 GB/sec	11.2GB/sec
Connectors	Two DisplayPort	DSM59 for Dual DVI or Dual VGA analog	Four DisplayPort
Monitor adapters / cables	-----	DMS59 to Dual DVI Digital DMS59 to Dual VGA Analog	Four DisplayPort to Single-Link DVI-D (45J7915)
Maximum Resolution	2560 x 1600	1920 x 1200 (DVI) 2048 x 1536 (VGA)	2560 x 1600
DisplayPort to VGA Analog Monitor Cable (57Y4393) compatible	Recommend NVS 300 (0A36528)	Not Applicable	Yes
DisplayPort to DVI Digital Monitor Cable (45J7915) compatible			NVS 450 (Option Part Number: 57Y4398) includes four cables
Shader Model	4.0	4.1	4.0
Open GL	3.0	3.3	2.1
Microsoft DirectX	10	10.1	10
NVIDIA CUDA Architecture, NVIDIA NVIEW Display Software	Yes		
Cards per E30 **	One (attach 2 monitors)		One (attach 4 monitors)
Cards per C20, C20x, S20, D20	Two (attach 4 monitors)		Two (attach 8 monitors)



Notes:







- The integrated and discrete graphics on E30 systems can both be enabled. This combines the graphic card monitor ports with the E30 system monitor port. For more information, go to: support.lenovo.com/en_US/downloads/detail.page?DocID=HT062445
- DVI digital or VGA analog monitors attach to DisplayPort via "DisplayPort Monitor Cable", maximum resolution is 1920 x 1200.

www.lenovo.com/support/graphiccards
www.lenovo.com/support/displayport-cables

ThinkStation E30, S20, C20, C20x, D20 Top Options

NVIDIA Quadro 3D CAD, DCC Graphic Cards

Boost graphics performance; enhanced productivity with multiple monitors

	Quadro 400 DVI, DisplayPort	Quadro 600 DVI, Dual-DisplayPort	Quadro 2000 DVI, Dual-DisplayPort	Quadro 200D Dual-DVI	Quadro 4000 DVI, Dual-DisplayPort, Stereo	Quadro 5000 DVI, Dual-DisplayPort, Stereo
						
Option Part Number	0A36535	0A36183	57Y4479	0A36541	57Y4480	57Y4481
CAD, DCC Segment	Entry-Level	Entry-level	Mid-Range	Mid-range	High-End	Ultra High-End
CUDA Cores	48	96	192	192	256	320
Memory Frame Size	512MB DDR3	1GB DDR3	1GB DDR3	1GB DDR3	2GB GDDR5	2.5GB GDDR5
Memory Interface	64-bit	128-bit	128-bit	128-bit	256-bit	320-bit
Memory Bandwidth	12.3 GB/sec	25.6 GB/sec	41.6 GB/sec	41.6 GB/sec	89.6 GB/sec	120.0 GB/sec
Connectors	One Dual-Link DVI-I, One DisplayPort	One Dual-Link DVI-I, Two DisplayPort (only 2 of 3 monitor ports are active)	One Dual-Link DVI-I, Two DisplayPort (only 2 of 3 monitor ports are active)	Two Dual-Link DVI-I	One Dual-Link DVI-I, Two DisplayPort, 3-pin stereo (only 2 of 3 monitor ports are active)	One Dual-Link DVI-I, Two DisplayPort, 3-pin stereo (only 2 of 3 monitor ports are active)
DisplayPort to DVI Digital Monitor Cable (45J7915)	Compatible	Compatible	Compatible	Not Applicable	Compatible	Compatible
SLI Connector (55Y8963)						Yes - C20, C20x, D20 only
DVI-to-VGA Monitor Adapter	One included			Two Included	Not compatible	
Maximum Resolution	2560 x 1600 for DisplayPort or Dual-Link DVI					
Cards per E30 **	One (attach 2 monitors)				Not compatible	
Cards per C20, C20x, S20, D20	Two (attach 4 monitors)					

Notes:

- The integrated and discrete graphics on E30 systems can both be enabled. This combines the graphic card monitor ports with the E30 system monitor port. For more information, go to: support.lenovo.com/en_US/downloads/detail.page?DocID=HT062445
- DVI digital or VGA analog monitors attach to DisplayPort via "DisplayPort Monitor Cable", maximum resolution is 1920 x 1200.

www.lenovo.com/support/graphiccards
www.lenovo.com/support/displayport-cables

ThinkStation E30, S20, C20, C20x, D20 Top Options

DisplayPort to DisplayPort Monitor Cable

Attach ThinkVision Monitor to the DisplayPort monitor port on:
- Graphic Cards, with DisplayPort, installed into ThinkStation system



- 2560 x 1600 resolution
- Cable length: 1.8 m (5.9-feet)
- DisplayPort 1.2 compliant



Note: ThinkVision LT2452p, LT2252p, LT1952p Monitors do not include a DisplayPort cable

DisplayPort Monitor Cable

Attach DVI-D digital monitor to a DisplayPort connector on:
- Graphic Cards, with DisplayPort, installed into ThinkStation system



DisplayPort to Single-Link DVI-D Digital
(45J7915)

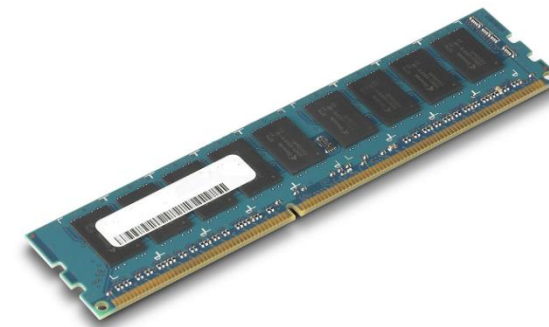
- 1920 x 1200 resolution
- Cable length: 20 cm (7.8-inch)

ThinkStation E30, S20, C20, C20x, D20 Top Options

Lenovo DDR3-1333 UDIMM Memory

Lowest-cost method to boost system performance

- Available in Error Correcting Code (ECC) and non-ECC
- Enhance multi-tasking usability
- Extend system useful life
- Ensure systems compatibility
- ECC UDIMM:
 - Provides greater data accuracy and system uptime by protecting against errors in memory
 - Available in up to 4GB capacity



Note: ECC and non-ECC memory cannot be mixed within the same system

www.lenovo.com/support/thinkstationaccessories

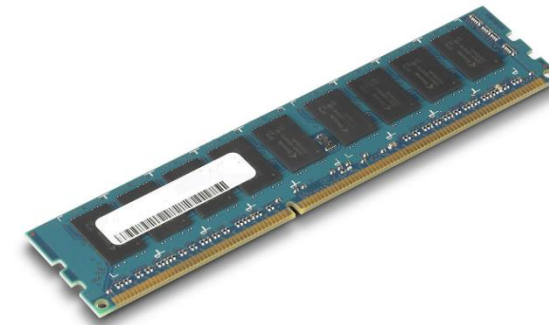
2GB PC3-10600 DDR3-1333 ECC UDIMM Memory	(43R2033)
4GB PC3-10600 DDR3-1333 ECC UDIMM Memory	(57Y4138)
2GB PC3-10600 DDR3-1333 non-ECC UDIMM Memory	(57Y4390)
4GB PC3-10600 DDR3-1333 non-ECC UDIMM Memory	(0A36527) – E30 only
2GB PC3-10600 DDR3-1333 non-ECC UDIMM Memory – 25 pack	(57Y4420)
<i>ThinkStation E20, E30 has 4 memory slots</i>	

ThinkStation E30, S20, C20, C20x, D20 Top Options

Lenovo DDR3-1333 ECC UDIMM Memory

Lowest-cost method to boost system performance

- Enhance multi-tasking usability
- Extend system useful life
- Ensure systems compatibility
- Higher bandwidth made possible by 8-bit prefetch buffer
- ECC (Error Correcting Code) memory provides greater data accuracy, system uptime by protecting against memory errors



Notes:

- Mixing memory speeds; 1066 with 1333; causes system to operate at the lowest installed speed.
- For newer Intel family of 56xx CPU (W36xx, X56xx, E56xx - Westmere):
 - When using all 1333 memory modules, all operate at 1333.
- For older Intel family of 55xx CPU (W35xx, E55xx, X55xx, and W55xx - Nehalem):
 - When using four or more 1333 memory modules per processor, ThinkStation D20 operates at DDR3-1066 memory speed.
- Memory speed operation is dependent on processor speed.
 - For optimal performance, memory speed should match processor memory bus speed.

www.lenovo.com/support/thinkstationaccessories

2GB PC3-10600 DDR3-1333 ECC UDIMM Memory (43R2033)

4GB PC3-10600 DDR3-1333 ECC UDIMM Memory (57Y4138)

ThinkStation S20 has 6 memory slots



ThinkStation E30, S20, C20, C20x, D20 Top Options

Lenovo DDR3 ECC RDIMM Memory

Lowest-cost method to boost system performance

- Enhance multi-tasking usability
- Extend system useful life
- Ensure systems compatibility
- Maximize memory capacity to 96GB (Twelve 8GB modules)
- Buffer address, control, and clock signals, reducing system loading.
- ECC (Error Correcting Code) memory provides greater data accuracy, system uptime by protecting against memory errors

Notes:

- When using 4 or more 8GB RDIMM DDR3-1066 Memory modules, per processor, ThinkStation D20 operate at DDR3-800 speed.
- For newer Intel family of 56xx CPU (W36xx, X56xx, E56xx- Westmere):
 - When using all 1333 memory modules, all operate at 1333.
- For older Intel family of 55xx CPU (W35xx, E55xx, X55xx, W55xx - Nehalem):
 - When using four or more 1333 memory modules per processor, ThinkStation D20 operates at DDR3-1066 memory speed.
- When using 7 or more memory modules, ThinkStation D20 requires a second processor.
- 4GB and 8GB RDIMM memory modules includes a memory fan cooler. ThinkStation D20 supports a maximum of two fan coolers.
- **ThinkStation C20, C20x, D20 supports UDIMM or RDIMM**
 - Mixing UDIMM and RDIMM is not supported.
 - Refer to UDIMM Memory page for product information.

www.lenovo.com/support/thinkstationaccessories

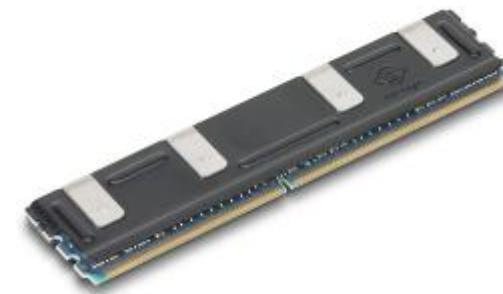
2GB PC3-10600 DDR3-1333 ECC RDIMM Memory (57Y4425)

4GB PC3-10600 DDR3-1333 ECC RDIMM Memory (57Y4426)

8GB PC3-10600 DDR3-1333 ECC RDIMM Memory (57Y4427)

ThinkStation C20 has 6 memory slots

ThinkStation C20X, D20 has 12 memory slots

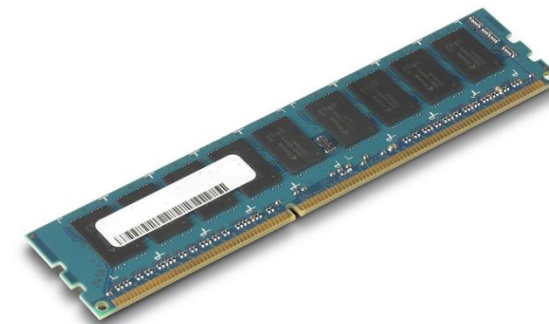


ThinkStation E30, S20, C20, C20x, D20 Top Options

Lenovo DDR3 ECC UDIMM Memory

Lowest-cost method to boost system performance

- Enhance multi-tasking usability
- Extend system useful life
- Ensure systems compatibility
- Higher bandwidth made possible by 8-bit prefetch buffer (4-bit on DDR2)
 - Buffer address, control, and clock signals, reducing system loading.
- ECC (Error Correcting Code) memory provides greater data accuracy, system uptime by protecting against memory errors



Notes:

- Mixing memory speeds; 1066 with 1333; causes system to operate at the lowest installed speed.
- For newer Intel family of 56xx CPU (W36xx, X56xx, E56xx - Westmere):
 - When using all 1333 memory modules, all operate at 1333.
- For older Intel family of 55xx CPU (W35xx, E55xx, X55xx, and W55xx - Nehalem):
 - When using four or more 1333 memory modules per processor, ThinkStation D20 operates at DDR3-1066 memory speed.
- When using 7 or more memory modules, ThinkStation D20 requires a second processor.
- Memory speed operation is dependent on processor memory bus speed.
 - For optimal performance, memory speed should match processor memory bus speed.
- **ThinkStation C20, C20x, D20 supports UDIMM or RDIMM**
 - Mixing UDIMM and RDIMM is not supported
 - RDIMM offers 8GB memory capacity, for a maximum of 96GB system memory
 - Refer to RDIMM Memory page for product information

www.lenovo.com/support/thinkstationaccessories

2GB PC3-10600 DDR3-1333 ECC UDIMM Memory (43R2033)

4GB PC3-10600 DDR3-1333 ECC UDIMM Memory (57Y4138)

ThinkStation C20 has 6 memory slots

ThinkStation C20X, D20 has 12 memory slots



ThinkStation E30, S20, C20, C20x, D20 Top Options

SATA and SAS Hard Drives

Expand hard drive system capacity – store more data

- Large capacity 7200 rpm and 10K rpm
- High speed 15K rpm 16MB cache hard drives
- Add multiple hard drives to help improve performance and reliability in a RAID configuration

www.lenovo.com/support/thinkstation/raid

Notes:

- E20, E30: Configured with Serial ATA Hard Drives
- S20, C20 are SATA-based. SAS hard drives require the Lenovo-installed SAS controller adapter on S20
- C20x, D20 are SAS-based supporting both SATA and SAS Hard Drive using the integrated SAS controller adapter.
- Mixing of SAS and SATA Hard Drives is supported.

www.lenovo.com/support/desktop/harddrives

ThinkStation E30, S20, C20, C20x, D20

Lenovo 250GB 7200 rpm Serial ATA Hard Drive (41N3015)

Lenovo 500GB 7200 rpm Serial ATA Hard Drive (43R1990)

Lenovo 1TB 7200 rpm Serial ATA Hard Drive (45J7918)

Lenovo 300GB 10K rpm Serial ATA Hard Drive (43R2031)

ThinkStation S20*, C20x, D20

ThinkStation 450GB 15K rpm SAS Hard Drive (43R3424)



ThinkStation E30, S20, C20, C20x, D20 Top Options

Blu-ray Burner, SATA Optical

Up to 50GB removable storage with high-definition video playback

- Huge read/write storage capacity using Blu-ray media:
 - 25GB: single layer
 - 50GB: double layer
- Blu-ray high definition (HD) video playback support
- Backward compatible reading and writing to CD & DVD media



www.lenovo.com/support/desktop/opticals

Lenovo Blu-ray Burner (45K1675)

ThinkStation E30, S20, C20, C20x, D20 Top Options

ThinkCentre Extend Arm

Improve viewing comfort

- Users can easily adjust their system
- User Adjustments:
 - Extend: 410mm (16.1 inches)
 - Height adjust: 270 mm (10.6 inches)
 - Tilt: 240 degrees (+/- 120 degrees)
 - Pivot for Portrait (vertical) and Landscape (horizontal) viewing
- Desk Clamp or wall mount

www.lenovo.com/support/stands

ThinkCentre Extend Arm (57Y4352)



ThinkStation E30, S20, C20, C20x, D20 Top Options

Lenovo Ultra Secure Memory Keys

Transportable storage that is easy to share and carry with you

- Slim design
- Includes Vista Ready Boost support
 - Improves boot-up time and system performance
- Includes password protection
- Improved encryption Advanced Encryption Standard (AES) algorithm.
- Forced password protection
- No software installation needed



www.lenovo.com/support/security

Lenovo USB Ultra Secure Memory Key – 4GB	(57Y4327)
Lenovo USB Ultra Secure Memory Key – 8GB	(57Y4328)

ThinkStation E30, S20, C20, C20x, D20 Top Options

Kensington Security Cable Locks by Lenovo

Help reduce theft, and increase physical asset security protection

- Secure your ThinkStation and ThinkVision monitor
- Easy to install and use for office environments
- Strong, steel composite cable with carbon tempered steel core:
 - MircoSaver: 6.0-feet, 5.5 mm thick cable
 - Twin Head: 7.0-feet, 5.5 mm thick cable
- Patented T-bar lock provides superior lock strength in the security slot and theft protection
- Sleek styling and design using a rotating head and pivoting cable allows you to easily connect and position the lock
- Attached rubber cable tie for cable management
- Free replacement keys available
 - Requires keycode from key (customers need to record keycodes)
 - Order via: www.replacementkey.kensington.com
- Twin Head Cable Lock to secure two devices
 - 2nd lock “floats”, “moves” along the cable for user preference
- Attaching the cable lock, to selected ThinkStation models (E30, D20, S20), not only secures the machine to the work area, but it also prevents users from opening the chassis itself!

www.lenovo.com/support/security

Kensington Microsaver Security Cable Lock by Lenovo	(73P2582)
Kensington Twin Head Cable Lock from Lenovo	(45K1620)



MicroSaver (73P2582)



Twin Head (45K1620)

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ThinkStation E30, S20, C20, C20x, D20 Top Options

ThinkStation Second Processor Heatsinks

Customer freedom to choose the best Intel Xeon processor at the best price, enables the entire spectrum of workstation computing needs

- Designed for 2nd processor socket for dual processor systems
- Second Xeon Processor is purchased from Intel Channel Partner
- Allows the customer to select the preferred Intel processor
- Heatsinks provide quiet, reliable cooling for Xeon CPU's under all operating loads
- Accommodates up to 130-watt of processor thermal design power (TDP)

Note:

- If a 2nd processor is installed, the 2nd processor must match (“*matched pairs*”) existing installed processor.

www.lenovo.com/support/thinkstationaccessories

ThinkStation C20, C20x-Series Heatsink	(0A65720) – C20, C20x only
ThinkStation D20-Series Heatsink	(0A65719) – D20 only



C20, C20x-Series



D20-Series

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ThinkStation E30, S20, C20, C20x, D20 Top Options

ThinkStation Rail Kit

Easily install the ThinkStation C20, C20x, D20 into a rack for data center environments

- Fits most 19-inch 4-post cabinet style racks with EIA square or round holes.
- About 10-minute, 2-person installation
- Slides easily snap-in to rack, allows quick installation
- No special bezels required
- Handles allow persons to slide system into and out of rack

www.lenovo.com/support/stands

ThinkStation C-Series, D-Series Rail Kit (57Y4482) – C20, C20x, D20



C20, C20x, D20 only



D20 occupies 5U rack space



C20, C20x occupies 3U rack space

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WHO DO.

ThinkStation E30, S20, C20, C20x, D20 Top Options

Lenovo USB-to-DVI Monitor Adapter

HD Resolution, and multiple monitors, is just as simple USB connection away

- Add High Definition as easy as plugging into a USB 2.0 port:
 - Maximum resolutions (@32-bit color):
 - 16:10 Wide – 1920 x 1200
 - 16:9 Wide – 2048 x 1152 (with 1920 x 1080 native HDTV support)
- Flexibility to add as many as six monitors to a single system
 - Doubling or tripling your visual workspace increases productivity while lowering total cost of ownership
 - One Monitor Adapter is needed for each monitor
- DVI digital video output for sharpness and clarity
 - DVI-to-VGA adapter included
- Supports HD video playback of non-encrypted content
- All monitors are independent:
 - Extended “stretch” desktop and mirror “clone” modes
 - Landscape, portrait viewing: 90°, 180°, 270° image rotation
- Plug & Play, hot plug



www.lenovo.com/support/monitoraccessories

Lenovo USB-to-DVI Monitor Adapter (45K5296)



ThinkStation E30, S20, C20, C20x, D20 Top Options

Intel Xeon Processors

Elite performance; Add a 2nd processor to ThinkStation C20, C20x, D20

- Transform complex and visually intensive data into actionable information enabled by up to eight computational cores of pure performance
- Enjoy optimized visualization by balancing processing, memory and bandwidth resources to deliver rich visual experiences.

All processor Option Part Numbers will be discontinued in March.
Beginning April, only ThinkStation Heatsinks will be available.
Second Xeon Processor is purchased from Intel Channel Partner.



C20, C20x, D20 only

Note:

- If a 2nd processor is installed, the 2nd processor must match (“*matched pairs*”) existing installed processor.

www.lenovo.com/support/thinkstationaccessories

Intel® Xeon® Processor E5606 (8M Cache, 2.13 GHz, 4.80 GT/s Intel® QPI)	(0A36531)
Intel® Xeon® Processor E5607 (8M Cache, 2.26 GHz, 4.80 GT/s Intel® QPI)	(0A36532)
Intel® Xeon® Processor E5645 (12M Cache, 2.40 GHz, 5.86 GT/s Intel® QPI)	(0A36533)
Intel® Xeon® Processor E5649 (12M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI)	(0A36534)

All processor Option Part Numbers will be discontinued in March.
Beginning April, only ThinkStation Heatsinks will be available.
Second Xeon Processor is purchased from Intel Channel Partner.

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ThinkStation E30, S20, C20, C20x, D20 Top Options

**NVIDIA SLI Connector
(55Y8963)**



C20, C20x, D20 systems with NVIDIA Quadro 5000
www.lenovo.com/support/graphiccards
www.nvidia.com/object/quadro_sli.html

**Lenovo ThinkVision Soundbar
(45K1690)**



www.lenovo.com/support/monitoraccessories

**Lenovo USB 2.0 Portable Hard Drive
500GB (45K1690)**



www.lenovo.com/support/notebook/harddrives

**ThinkPad USB 3.0 Portable Secure
Hard Drive
500GB (0A65619)
750GB (0A65616)**



www.lenovo.com/support/security

ThinkStation E30, S20, C20, C20x, D20 Top Options

3rd Party Options: Navigation Devices by 3D Connexion

Simultaneously pan, zoom and rotate your CAD models

- SpaceNavigator – PE (3DX-700029) - Lenovo PN: 41A2544
- SpaceNavigator – SE (3DX-700028) - Lenovo PN: 41A2545
- SpaceTraveler (132100002) - Lenovo PN: 41A2546
- SpaceExplorer USB (3DX-700026) - Lenovo PN: 41A2547
- SpacePilot (133031000) - Lenovo PN: 41A2548

3Dconnexion Product Line				
Models	SpaceNavigator	SpaceExplorer	SpacePilot	SpaceTraveler
				
Price	\$59 (PE*) \$99 (SE)	\$299	\$399	\$199
Features				
• Effortless 3D navigation	●	●	●	●
• Programmable function keys	2	15	21+	8
• Dedicated function keys for views, keyboard modifiers		●	●	
• LCD panel			●	
• Application detection			●	
Operating system				
• Windows® XP and 2000	●	●	●	●
• Windows Vista™	●	●	●	●
• UNIX		●	●	●
• Linux	●	●	●	●
• Mac OS X (10.4.6 and later)	●			●
Weight	479 g	593 g (USB), 619 g (Serial)	1.875 lb (0.85 kg)	0.51 lb (0.23 kg)
Warranty	2-year	3-year	3-year	2-year
Support	Phone, Web, and Email (SE) Web (PE)	Phone, Web, and Email	Phone, Web, and Email	Phone, Web, and Email

* SpaceNavigator™ PE (Personal Edition) supports only noncommercial use of the device.







ThinkStation E30, S20, C20, C20x, D20 Top Options

3rd Party Options: Monitor Stands by Ergotron

Save desk space, increase productivity by viewing more data



www.ergotron.com

Product	Part Number	Key Features
LX Dual Display Lift Stand (33-299-195) 	30R5883	<ul style="list-style-type: none"> ▪ Attach two monitors <ul style="list-style-type: none"> - Less than 24-inch ▪ 5 inches (13 cm) height adjustment ▪ 20 degrees of tilt ▪ 90 degrees of pivot (landscape / portrait) ▪ Weight capacity: 12 – 34 lbs (5.4 – 15.5 kg) combined display weight
LX Triple / Dual Display Lift Stand (33-296-195) 	30R5882	<ul style="list-style-type: none"> ▪ Attach three or two monitors <ul style="list-style-type: none"> - Three: Less than 21-inch - Two: 24-inch to 30-inch ▪ 5 inches (13 cm) height adjustment ▪ 20 degrees of tilt ▪ 90 degrees of pivot (landscape / portrait) ▪ Weight capacity: 24 – 48 lbs (10.9 – 22 kg) combined display weight
DS100 Quad-Monitor Desk Stand-Horizontal (33-325-200) 	30R6972	<ul style="list-style-type: none"> ▪ Attach four monitors: <ul style="list-style-type: none"> - Less than 17-inch - Maximum outside width: 16-inch (40.6 cm) ▪ Weight capacity: <ul style="list-style-type: none"> - 31 lbs (14 kg) per monitor - 124 lbs (56 kg) total
DS100 Quad-Monitor Desk Stand-2 by 2 (33-325-200) 	30R6971	<ul style="list-style-type: none"> ▪ Attach four monitors: <ul style="list-style-type: none"> - Less than 24-inch - Maximum outside width: 23.75-inch (59 cm) ▪ Weight capacity: <ul style="list-style-type: none"> - 31 lbs (14 kg) per monitor - 124 lbs (56 kg) total