ThinkStation.



Lenovo ThinkStation C30



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ThinkStation C30 Platform Specifications - I of IV

Text in red shows that these features only apply to MT type 1095 and 1097 models, text in green shows that the features are supported on other models except MT type 1095 and 1097 models.

Chipset	Intel C602 Chipset	
Intel AMT	MT type 1095 and 1097: Others MT types:	Intel Active Management Technology 7 Intel Active Management Technology 8
Processor	Two LGA2011 sockets, sup	oports up to two processors from Intel Xeon E5-2600 and Intel Xeon E5-2600 v2 family,

Two LGA2011 sockets, supports up to two processors from Intel Xeon E5-2600 and Intel Xeon E5-2600 v2 family, or up to one processor from Intel Xeon E5-1600 v2 family, integrated 4-channel DDR3 memory controller per processor.

Supports the following:

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Intel QPI Speed	# of QPI Links	Max TDP	Memory Speed	Intel vPro technology
Xeon E5-2603	4	4	1.8 GHz		10 MB	6.4 GT/s	2	80 W	1066MHz	vPro
Xeon E5-2609	4	4	2.4 GHz		10 MB	6.4 GT/s	2	80 W	1066MHz	vPro
Xeon E5-2620	6	12	2 GHz	2.5 GHz	15 MB	7.2 GT/s	2	95 W	1333MHz	vPro
Xeon E5-2630	6	12	2.3 GHz	2.8 GHz	15 MB	7.2 GT/s	2	95 W	1333MHz	vPro
Xeon E5-2630L	6	12	2 GHz	2.5 GHz	15 MB	7.2 GT/s	2	60 W	1333MHz	vPro
Xeon E5-2637	2	4	3 GHz	3.5 GHz	5 MB	8 GT/s	2	80 W	1600MHz	vPro
Xeon E5-2640	6	12	2.5 GHz	3 GHz	15 MB	7.2 GT/s	2	95 W	1333MHz	vPro
Xeon E5-2643	4	8	3.3 GHz	3.5 GHz	10 MB	8 GT/s	2	130 W	1600MHz	vPro
Xeon E5-2650	8	16	2 GHz	2.8 GHz	20 MB	8 GT/s	2	95 W	1600MHz	vPro
Xeon E5-2650L	8	16	1.8 GHz	2.3 GHz	20 MB	8 GT/s	2	70 W	1600MHz	vPro
Xeon E5-2660	8	16	2.2 GHz	3 GHz	20 MB	8 GT/s	2	95 W	1600MHz	vPro
Xeon E5-2665	8	16	2.4 GHz	3.1 GHz	20 MB	8 GT/s	2	115 W	1600MHz	vPro
Xeon E5-2667	6	12	2.9 GHz	3.5 GHz	15 MB	8 GT/s	2	130 W	1600MHz	vPro
Xeon E5-2670	8	16	2.6 GHz	3.3 GHz	20 MB	8 GT/s	2	115 W	1600MHz	vPro
Xeon E5-2680	8	16	2.7 GHz	3.5 GHz	20 MB	8 GT/s	2	130 W	1600MHz	vPro
Xeon E5-2690	8	16	2.9 GHz	3.8 GHz	20 MB	8 GT/s	2	135 W	1600MHz	vPro
Xeon E5-1603	4	4	2.8 GHz		10 MB			130 W	1066MHz	vPro
Xeon E5-2603 v2	4	4	1.8 GHz	1.8 GHz	10 MB	6.4 GT/s	2	80 W	1333MHz	vPro
Xeon E5-2609 v2	4	4	2.5 GHz	2.5 GHz	10 MB	6.4 GT/s	2	80 W	1333MHz	vPro
Xeon E5-2620 v2	6	12	2.1 GHz	2.6 GHz	15 MB	7.2 GT/s	2	80 W	1600MHz	vPro
Xeon E5-2630L v2	6	12	2.4 GHz	2.8 GHz	15 MB	7.2 GT/s	2	60 W	1600MHz	vPro
Xeon E5-2630 v2	6	12	2.6 GHz	3.1 GHz	15 MB	7.2 GT/s	2	80 W	1600MHz	vPro
Xeon E5-2637 v2	4	8	3.5 GHz	3.8 GHz	15 MB	8 GT/s	2	130 W	1866MHz	vPro
Xeon E5-2640 v2	8	16	2 GHz	2.5 GHz	20 MB	7.2 GT/s	2	95 W	1600MHz	vPro
Xeon E5-2643 v2	6	12	3.5 GHz	3.8 GHz	25 MB	8 GT/s	2	130 W	1866MHz	vPro
Xeon E5-2650L v2	10	20	1.7 GHz	2.1 GHz	25 MB	7.2 GT/s	2	70 W	1600MHz	vPro
Xeon E5-2650 v2	8	16	2.6 GHz	3.4 GHz	20 MB	8 GT/s	2	95 W	1866MHz	vPro
Xeon E5-2660 v2	10	20	2.2 GHz	3 GHz	25 MB	8 GT/s	2	95 W	1866MHz	vPro
Xeon E5-2667 v2	8	16	3.3 GHz	4 GHz	25 MB	8 GT/s	2	130 W	1866MHz	vPro
Xeon E5-2670 v2	10	20	2.5 GHz	3.3 GHz	25 MB	8 GT/s	2	115 W	1866MHz	vPro
Xeon E5-2680 v2	10	20	2.8 GHz	3.6 GHz	25 MB	8 GT/s	2	115 W	1866MHz	vPro
Xeon E5-2690 v2	10	20	3 GHz	3.6 GHz	25 MB	8 GT/s	2	130 W	1866MHz	vPro
Xeon E5-2695 v2	12	24	2.4 GHz	3.2 GHz	30 MB	8 GT/s	2	115 W	1866MHz	vPro
Keon E5-2697 v2	12	24	2.7 GHz	3.5 GHz	30 MB	8 GT/s	2	130 W	1866MHz	vPro
Keon E5-1607 v2	4	4	3 GHz		10 MB			130 W	1600MHz	vPro
Xeon E5-1620 v2	4	8	3.7 GHz	3.9 GHz	10 MB			130 W	1866MHz	vPro
Keon E5-1650 v2	6	12	3.5 GHz	3.9 GHz	12 MB			130 W	1866MHz	vPro
Keon E5-1660 v2	6	12	3.7 GHz	4 GHz	15 MB			130 W	1866MHz	vPro

- Notes:

 1. ThinkStation C30 support two processors. When ordering two processors, they must be the same

 2. When using Intel Xeon E5-1600 and E5-1600 v2 series processors, max CPU configuration is 1

 3. Intel Xeon processor numbering system is an alpha numeric representation of product line, product family and version. An 't' suffix will be used to identify a low power processor. More details please see http://www.intel.com/products/processor number

 4. All information is provided by Intel and may be changed at any time without notice. The information herein is provided "as-is". Intel may update this information in non-scheduled. For latest information, please see http://ark.intel.com/products/family/59138/Intel-Xeon-Processor-E5-Family/server

ThinkStation C30 Platform Specifications - II of IV

Text in red shows that these features only apply to MT type 1095 and 1097 models, text in green shows that the features are supported on other models except MT type 1095 and 1097 models

UDIMM or RDIMM, ECC, DDR3, 8-channel capable (4-channel per processor),

eight 240-pin DIMM sockets (four DIMM sockets per processor), 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8) · Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over four DIMMs requires dual processors Additional • Mixing of RDIMM and UDIMM is not supported Maximum memory capacity is also limited by operating system memory disclaimers When using processor from Xeon E5-1600 and E5-1600 v2 series, only four DIMM sockets for CPU1 are available and max memory cacpacity is 32GB (UDIMM, 8GBx4)/128GB (RDIMM, 32GBx4)

Graphics adapters and GPU computing

Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology, supports the following NVIDIA Quadro, NVS graphics adapters and Tesla GPU computing processors:

	Memory Size	CUDA Processor Cores	Display Connectors	Max. Displays	# of slots	Power
NVIDIA Quadro a	nd NVS Graphics	1	1			
Quadro K6000	12GB	2880	1 dual-link DVI-I 1 dual-link DVI-D 2 DisplayPort	4	2	225W
Quadro K5000	4GB	1536	1 dual-link DVI-I 1 dual-link DVI-D 2 DisplayPort	4	2	122W
Quadro K4000	3GB	768	1 dual-link DVI-I 2 DisplayPort	4*	1	80W
Quadro K2000	2GB	384	1 dual-link DVI-I 2 DisplayPort	4*	1	51W
Quadro K2000D	2GB	384	1 dual-link DVI-I 1 dual-link DVI-D 1 mini DisplayPort	4*	1	51W
Quadro K600	1GB	192	1 dual-link DVI-I 1 DisplayPort	2	1	41W
Quadro 410	512MB	192	1 dual-link DVI-I 1 DisplayPort	2	1	37W
Quadro 6000	6GB	448	1 dual-link DVI-I 2 DisplayPort 1 Stereo	2	2	204W
Quadro 5000	2.5GB	352	1 dual-link DVI-I 2 DisplayPort, 1 Stereo	2	2	152W
Quadro 4000	2GB	256	1 dual-link DVI-I 2 DisplayPort 1 Stereo	2	1	142W
Quadro 2000	1GB	192	1 dual-link DVI-I 2 DisplayPort	2	1	62W
Quadro 2000D	1GB	192	2 dual-link DVI-I	2	1	62W
Quadro 600	1GB	96	1 dual-link DVI-I 1 DisplayPort	2	1	40W
NVS 510	2048 MB	192	4 mini DisplayPort (with 4 mini DP to DP dongles)	4	1	35W
NVS 315	1024MB	48	DMS59 to dual single-link DVI-I or dual DisplayPort	2	1	19.5W
NVS 310	512 MB	48	2 DisplayPort	2	1	19.5W
NVS 300	512 MB	16	DMS59 to dual single- link DVI-I	2	1	17.5W
NVIDIA Tesla GPU	J Computing Pro	cessors (as part of NVIDIA M	aximus Platform)			1
Tesla K20	5GB	2496				225W
Tesla C2075	6GB	448				225W

Quadro K4000, K2000, and K2000D are equipped with 3 onboard display connectors, 4 Displays require a supported DisplayPort 1.2 Multi-Stream capable hub or displays

Notes:

1. ThinkStation supports NVIDIA SLI Technology with selected NVIDIA Quadro graphics adapters, additional SLI cable is needed. For the latest Quadro SLI certified list on ThinkStation, please see www.nvidia.com/object/quadro sli compatible systems.html

2. ThinkStation C30 support NVIDIA Maximus technology. Maximus technology combines the visualization and interactive design capability of NVIDIA Quadro graphics and the high performance computing power of NVIDIA Tesla GPU computing processors in a single workstation. For more information on the latest Maximus certifications for ThinkStation and how to build Maximus system,

please see www.nvidia.com/object/maximus.html CUDA Processor Cores cannot be compared between GPU generations due to several important architectural differences that exist between streaming multiprocessor designs.

ThinkStation C30 Platform Specifications - III of IV

Onboard drive controllers	 Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support
Upgrade ROM for onboard drive controllers (opt)	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support
Discrete drive controller (opt)	One the following, depending on model: LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s,RAID 0, 1 support optional upgrade key for RAID 5 support LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support
Hard drive(s)	Supports the following: 3.5" SATA: SATA 6.0Gb/s, 7200 rpm, up to 4TB 3.5" Hybrid: SATA 6.0Gb/s, 7200 rpm, integrated 8GB NAND flash 2.5" SATA: SATA 6.0Gb/s, 10000 rpm, up to 1TB 3.5" SAS: SAS: SAS 6.0Gb/s, 15000 rpm, up to 600GB 2.5" SAS: SAS 6.0Gb/s, 15000 rpm, up to 300GB 2.5" SSD: SOlid State Drive (SSD), SATA 6.0Gb/s, 0PAL-capable on selected models, up to 300GB mSATA: mSATA Solid State Drive (SSD), SATA 6.0Gb/s, up to 128GB
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface
Drive Bays	One external 5.25" bays for opticals, three internal 3.5" bays for hard drives
Media reader (opt)	None (use USB port)
Front ports	MT type 1095 and 1097: Two USB 2.0, microphone (3.5mm), headphone (3.5mm) Others MT types: Two USB 3.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)
IEEE 1394 adptr	None. Optional FireWire PCIe adapter on selected models,
(optional)	1394a-2000, 400Mbps, two 6-pin ports on rear
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Onboard Ethernet	One onboard gigabit ethernet, Intel 82579
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black
Mouse	Optical Wheel Mouse (USB connector), black
Power supply	800 watts with 80mm side-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified
Security	Security chip: MT type 1095 and 1097: Others MT types: Side cover lock (ships with two identical keys) Padlock loop (in rear for opt padlock; padlock prohibits side cover removal) Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal) Power-on password Administrator password Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O enable/disable USB 2.0 ports enable/disable individually USB 3.0 ports enable/disable concurrently Chassis intrusion switch (optional)
Mechanical	 Rack-mountable to 3U Raven black color; metal case 5.1"W x 17.5"D x 16.8"H 130mm W x 444mm D x 427mm H (without rubber feet) 40.7 lb (18.5kg) max configuration 24-liter
Expansion slots	Slot 1: half-length, full-height, PCle 3.0 x16 (near CPU, x4 elec) Slot 2: full-length, full-height, PCle 3.0 x16* Slot 3: full-length, full-height, 32-bit PCl 2.3 Slot 4: full-length, full-height, PCle 3.0 x16* Slot 5: full-length, full-height, PCle 2.0 x4 Slot 6: half-length, full-height, 32-bit PCl 2.3
Serviceability	* Adapters >75W use auxiliary power connector(s) from PSU • Toolless side cover removal • Toolless disk and optical drive removal • Toolless adapter retention • Illuminated front icons • Rack shelf support or optional rail kit

ThinkStation C30 Platform Specifications - IV of IV

ISV certifications	Please visit <u>www.lenovo.com/support/ISV</u>
Environmental certifications	GREENGUARD® certified RoHS-compliant EPEAT™ Gold rating
Warranty	1 or 3-year limited warranty, parts and labor
ThinkVantage®	Supports ThinkVantage® technologies
Preloaded operating systems	One the following, depending on model: Windows® 7 Professional 64 Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Windows 8 Pro 64-bit
Preloaded applications (only some listed)	For Windows 7 models: Rescue and Recovery® Norton® Internet Security (30 days of virus defi nitions) Adobe® Reader® Adobe Flash® Player Microsoft® Office preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW model(s)) Ulead® DVD MovieFactory® (DVD±RW model(s)) For Windows 8 models: Evernote® Norton Internet Security (30 days of virus definitions) Norton Studio Skype™ Microsoft Office 2013 preloaded; purchase product key to activate Cyberlink Power2Go (DVD±RW model(s)) Cyberlink PowerProducer (DVD±RW model(s))

ThinkStation C30 (1137) - TopSeller (June 2013)

Type- model ¹	Processor(s)	· -	Memory	Upgrade ROM for onboard drive controller	Discrete drive controller	Pre-conf	Hard drive(s) ²	Optical	Media reader	Graphics adapter(s) and GPU computing	1394 adptr	Chassis intrusion switch	Preloaded OS
	1,/TE 0000	1600MHz UDIMM	4GBx3	No	No	No	1x2TB 3.5" SATA	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-16G	1xE5-2620 (6C/2GHz/15MB/1333)	1600MHz UDIMM	4GBx3	No	No	No	1x256GB 2.5" SSD - OPAL	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
	1xE5-2630 (6C/2.3GHz/15MB/1333)	1600MHz UDIMM	4GBx2	No	No	No	1x2TB 3.5" SATA	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-18G	1xE5-2640 (6C/2.5GHz/15MB/1333)	1600MHz UDIMM	4GBx3	No	No	No	1x250GB 3.5" SATA	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-19G	1xE5-2640 (6C/2.5GHz/15MB/1333)	1600MHz UDIMM	4GBx3	No	No	No	1x500GB 3.5" SATA	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)

- Model in italics shows that this is a Global Model
 The SSD drives in italics must be plugged into SATA AHCI connectors (red/orange)
 - 3-year limited warranty
 - With new MT type 1136/1137 and beyond, ThinkStation C30 introduces new updates to improve the functionality and usability:

(These new features are not supported on 1095 and 1097MT models)

Intel AMT: upgrades to Intel AMT 8 from Intel AMT 7

New TPM chip: STMicroelectronics ST33TPM12LPC

- Two front USB 2.0 ports upgrade to USB3.0
- For ThinkStation C30 platform specifications, please see ThinkStation C30 Platform Specifications sheet

Chipset	Intel C602 Chipset	Tower				
Processor	Two LGA2011 sockets, supports up to two processors from Intel Xeon E5-2600 family, 4-channel DDR3 memory controller per processor	• Rack-mountable to 3U • Raven black color; metal case • 5.1"W x 17.5"D x 16.8"H				
Memory	UDIMM or RDIMM, ECC, DDR3, 8-channel capable (4-channel per processor), eight 240-pin DIMM sockets 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)	130mm W x 444mm D x 427mm H (without rubber feet) 40.7 lb (18.5kg) max configuration				
Additional memory disclaimers	Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over four DIMMs requires dual processors Mixing of RDIMM and UDIMM is not supported	24-liter Toolless side cover removal Toolless disk and optical drive removal Toolless adapter retention				
Graphics	Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology	Illuminated front icons Rack shelf support or optional rail kit				
Onboard drive controllers	Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support	Bay 1 5.25",1.6" high, external, for optical Bay 2-4 3.5", 1" high, internal, for hard drive Slot 1: half-length, full-height, PCle 3.0 x16 (near CPU, x4 elec) Slot 2: full-length, full-height, PCle 3.0 x16*				
Upgrade ROM for onboard drive controllers (opt)	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support	Slot 3: full-length, full-height, 32-bit PCI 2.3 Slot 4: full-length, full-height, PCIe 3.0 x16* Slot 5: full-length, full-height, PCIe 2.0 x4 Slot 6: half-length, full-height, 32-bit PCI 2.3				
Discrete drive controller (opt)	One the following, depending on model: LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s,RAID 0, 1 support optional upgrade key for RAID 5 support LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support	* Adapters >75W use auxiliary power connector(s) from PSU				
Hard drives	3.5" SATA: SATA 6.0Gb/s, 7200 rpm 2.5" SATA: SATA 6.0Gb/s, 10000 rpm 3.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models mSATA: mSATA SSD, SATA 6.0Gb/s	SECURITY • Security chip (see information on left) • Side cover lock (ships with two identical keys)				
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface	Padlock loop (in rear for opt padlock;				
Media reader	None (use USB port)	padlock prohibits side cover removal)				
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)	Security slot (in rear for optional Kensington® Microsaver® cable;				
Rear ports	Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	prohibits side cover removal) • Power-on password				
IEEE 1394 adptr	None. Optional FireWire PCIe adapter on selected models,	Administrator password				
(optional)	1394a-2000, 400Mbps, two 6-pin ports on rear	Boot sequence control Boot without keyboard, mouse, diskette				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Serial port I/O enable/disable				
Speaker	Internal speaker for business audio	USB 2.0 ports enable/disable individually				
Onboard Ethernet	One onboard gigabit ethernet, Intel 82579	USB 3.0 ports enable/disable concurrently				
Security chip	STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant	Chassis intrusion switch on selected model(s)				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black	Intel AMT				
Mouse	Optical Wheel Mouse (USB connector), black	Intel Active Management Technology 8 supported				
Power supply	800 watts with 80mm side-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified	ISV certifications Please visit www.lenovo.com/support/ISV				
Preloaded operating systems	One the following, depending on model: • Windows 7 Professional 64					
(OS)	 Windows 7 Professional 64 Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Windows 8 Pro 64-bit 	Environmental certifications GREENGUARD® certified RoHS-compliant EPEAT™ Gold rating				
		Supports ThinkVantage® technologies				

ThinkStation C30 (1137) - TopSeller (June 2013) - II

Type-		Memory	Memory	Upgrade ROM for onboard drive	Discrete drive	Pre-conf			Media	Graphics adapter(s) and GPU	120/	Chassis	Preloaded
model ¹	Processor(s)	(MHz/type)		controller	controller		Hard drive(s) ²	Optical	reader	computing	adptr		OS
1137-21G	1xE5-2640 (6C/2.5GHz/15MB/1333)	1600MHz UDIMM	4GBx3	No	No	No	1x1TB 2.5" SATA	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-22G	1xE5-2640 (6C/2.5GHz/15MB/1333)	1600MHz UDIMM	4GBx4	No	No	No	1x128GB 2.5" SSD	DVD±RW	No	1xNVS 310 (512MB, DMS59 to dual DP, 19.5W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-23G	1xE5-2640 (6C/2.5GHz/15MB/1333)	1600MHz UDIMM	4GBx3	No	No	No	1x256GB 2.5" SSD	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-24G	1xE5-2640 (6C/2.5GHz/15MB/1333)	1600MHz UDIMM	4GBx3	SAS	No	No	1x600GB 3.5" SAS	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
	1xE5-2640 (6C/2.5GHz/15MB/1333)	1600MHz UDIMM	4GBx3	No	No	No	1x3TB 3.5" SATA	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)

- 3-year limited warranty
- . With new MT type 1136/1137 and beyond, ThinkStation C30 introduces new updates to improve the functionality and usability:

(These new features are not supported on 1095 and 1097MT models)

- Intel AMT: upgrades to Intel AMT 8 from Intel AMT 7 New TPM chip: STMicroelectronics ST33TPM12LPC
- Two front USB 2.0 ports upgrade to USB3.0
- For ThinkStation C30 platform specifications, please see <u>ThinkStation C30 Platform Specifications</u> sheet

Chipset	Intel C602 Chipset	Tower					
Processor	Two LGA2011 sockets, supports up to two processors from Intel Xeon E5-2600 family, 4-channel DDR3 memory controller per processor	• Rack-mountable to 3U • Raven black color; metal case • 5.1"W x 17.5"D x 16.8"H • 130mm W x 444mm D x 427mm H					
Memory	UDIMM or RDIMM, ECC, DDR3, 8-channel capable (4-channel per processor), eight 240-pin DIMM sockets 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)	130mm W x 444mm D x 427mm H (without rubber feet) 40.7 lb (18.5kg) max configuration					
Additional memory disclaimers	Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over four DIMMs requires dual processors Mixing of RDIMM and UDIMM is not supported	24-liter Toolless side cover removal Toolless disk and optical drive removal Toolless adapter retention 3 disk					
Graphics	Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology	Illuminated front icons 4 disk					
Onboard drive controllers	 Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support 	Bay 1 5.25",1.6" high, external, for optical Bay 2-4 3.5", 1" high, internal, for hard drive Slot 1: half-length, full-height, PCle 3.0 x16 (near CPU, x4 elec) Slot 2: full-length, full-height, PCle 3.0 x16*					
Upgrade ROM for onboard drive controllers (opt)	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support	Slot 3: full-length, full-height, 32-bit PCI 2.3 Slot 4: full-length, full-height, PCIe 3.0 x16* Slot 5: full-length, full-height, PCIe 2.0 x4 Slot 6: half-length, full-height, 32-bit PCI 2.3					
Discrete drive controller (opt)	One the following, depending on model: LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s,RAID 0, 1 support optional upgrade key for RAID 5 support LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support	* Adapters >75W use auxiliary power connector(s) from PSU					
Hard drives	3.5" SATA: SATA 6.0Gb/s, 7200 rpm SATA 6.0Gb/s, 10000 rpm SATA 6.0Gb/s, 10000 rpm SATA 6.0Gb/s, 15000 rpm SATA 6.0Gb/s	SECURITY • Security chip (see information on left) • Side cover lock (ships with two identical keys)					
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface	 Padlock loop (in rear for opt padlock; 					
Media reader	None (use USB port)	padlock prohibits side cover removal)					
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)	Security slot (in rear for optional Kensington® Microsaver® cable;					
Rear ports	Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	prohibits side cover removal) Power-on password					
IEEE 1394 adptr (optional)	None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Administrator password Boot sequence control Boot sequence control Description of the control of the contro					
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Boot without keyboard, mouse, diskette Serial port I/O enable/disable					
Speaker	Internal speaker for business audio	USB 2.0 ports enable/disable individually					
Onboard Ethernet	One onboard gigabit ethernet, Intel 82579	USB 3.0 ports enable/disable concurrently					
Security chip	STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant	Chassis intrusion switch on selected model(s)					
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black	Intel AMT					
Mouse	Optical Wheel Mouse (USB connector), black	Intel Active Management Technology 8 supported					
Power supply	800 watts with 80mm side-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified	ISV certifications Please visit www.lenovo.com/support/ISV					
Preloaded operating systems (OS)	One the following, depending on model: Windows 7 Professional 64 Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Windows 8 Pro 64-bit	Environmental certifications GREENGUARD® certified RoHS-compliant EPEATTM Gold rating					
		Supports ThinkVantage® technologies					

Model in italics shows that this is a Global Model
 The SSD drives in italics must be plugged into SATA AHCI connectors (red/orange)

ThinkStation C30 (1137) - TopSeller (June 2013) - III

Type-		Memory	Memory	Upgrade ROM for onboard drive	Discrete drive	Pre-conf			Media	Graphics adapter(s) and GPU		Chassis intrusion	Preloaded
model ¹	Processor(s)	(MHz/type)	DIMMs	controller	controller	RAID	Hard drive(s) ²	Optical	reader	computing	adptr	switch	os
1137-26G	1xE5-2640 (6C/2.5GHz/15MB/1333)	1600MHz RDIMM	4GBx4	No	No	No	1x128GB mSATA	DVD±RW	No	1xQuadro K600 (1GB, 1xDVI-I DL*, 1xDP, 41W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-27G	1xE5-2640 (6C/2.5GHz/15MB/1333)	1600MHz RDIMM	4GBx3	SAS	No	No	1x300GB 3.5 SAS	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-28G	1xE5-2640 (6C/2.5GHz/15MB/1333)	1600MHz RDIMM	4GBx2	No	No	No	1x240GB 2.5 SSD	DVD±RW		1xNVS 310 (512MB, DMS59 to dual DP, 19.5W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-29G	1xE5-2667 (6C/2.9GHz/15MB/1600)	1600MHz RDIMM	4GBx2	No	No	No	1x180GB 2.5 SSD	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-31G	1xE5-2650 (8C/2GHz/20MB/1600)	1600MHz RDIMM	4GBx3	SAS	No	No	2x300GB 3.5 SAS	DVD±RW	No	1xQuadro K2000 (2GB, 1xDVI-I DL, 2xDP, 51W)	No	No	Win7 Pro64 (Downgrade from Win8)
1 Model in	italics shows that this is a Glo	bal Model									* DL =	Dual Link, S	SL = Single Link

· 3-year limited warranty

• With new MT type 1136/1137 and beyond, ThinkStation C30 introduces new updates to improve the functionality and usability:

(These new features are not supported on 1095 and 1097MT models)

- Intel AMT: upgrades to Intel AMT 8 from Intel AMT 7
- New TPM chip: STMicroelectronics ST33TPM12LPC Two front USB 2.0 ports upgrade to USB3.0
- For ThinkStation C30 platform specifications, please see ThinkStation C30 Platform Specifications sheet

Chipset	Intel C602 Chipset	Tower				
Processor	Two LGA2011 sockets, supports up to two processors from Intel Xeon E5-2600 family, 4-channel DDR3 memory controller per processor	Rack-mountable to 3U Raven black color; metal case 5.1"W x 17.5"D x 16.8"H 130mm W x 4444mm D x 427mm H				
Memory	UDIMM or RDIMM, ECC, DDR3, 8-channel capable (4-channel per processor), eight 240-pin DIMM sockets 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)	130mm W x 444mm D x 427mm H (without rubber feet) 40.7 lb (18.5kg) max configuration				
Additional memory disclaimers	Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over four DIMMs requires dual processors Mixing of RDIMM and UDIMM is not supported	24-liter Toolless side cover removal Toolless disk and optical drive removal Toolless adapter retention				
Graphics	Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology	Illuminated front icons 4 disk				
Onboard drive controllers	 Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support 	Bay 1 5.25",1.6" high, external, for optical Bay 2-4 3.5", 1" high, internal, for hard drive Slot 1: half-length, full-height, PCle 3.0 x16 (near CPU, x4 elec) Slot 2: full-length, full-height, PCle 3.0 x16*				
Upgrade ROM for onboard drive controllers (opt)	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support	Slot 3: full-length, full-height, 32-bit PCI 2.3 Slot 4: full-length, full-height, PCIe 3.0 x16* Slot 5: full-length, full-height, PCIe 2.0 x4 Slot 6: half-length, full-height, 32-bit PCI 2.3				
Discrete drive controller (opt)	One the following, depending on model: LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s,RAID 0, 1 support optional upgrade key for RAID 5 support LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support	* Adapters >75W use auxiliary power connector(s) from PSU				
Hard drives	3.5" SATA: SATA 6.0Gb/s, 7200 rpm 2.5" SATA: SATA 6.0Gb/s, 10000 rpm 3.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models mSATA: mSATA SSD, SATA 6.0Gb/s	SECURITY • Security chip (see information on left) • Side cover lock (ships with two identical keys)				
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface	Padlock loop (in rear for opt padlock;				
Media reader	None (use USB port)	padlock prohibits side cover removal)				
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)	Security slot (in rear for optional Kensington® Microsaver® cable;				
Rear ports	Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	prohibits side cover removal) • Power-on password				
IEEE 1394 adptr (optional)	None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Administrator password Boot sequence control Boot without keyboard, mouse, diskette				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Serial port I/O enable/disable				
Speaker Onboard Ethernet	Internal speaker for business audio One onboard gigabit ethernet, Intel 82579	USB 2.0 ports enable/disable individually				
Security chip	STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant	USB 3.0 ports enable/disable concurrently Chapting introducing switch an applicated model(a)				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black	Chassis intrusion switch on selected model(s) Intel AMT				
Mouse	Optical Wheel Mouse (USB connector), black	Intel AMT				
Power supply	800 watts with 80mm side-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified	Intel Active Management Technology 8 supported ISV certifications				
Preloaded operating systems (OS)	One the following, depending on model: • Windows 7 Professional 64 • Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit • Windows 8 Pro 64-bit	Please visit www.lenovo.com/support/ISV Environmental certifications GREENGUARD® certified RoHS-compliant EPEAT™ Gold rating Supports ThinkVantage® technologies				

¹ Model in italics shows that this is a Global Model 2 The SSD drives in italics must be plugged into SATA AHCI connectors (red/orange)

Type- model ¹	Processor(s)	Memory (MHz/type)	,	Upgrade ROM for onboard drive controller	Discrete drive controller	Pre-conf RAID	Hard drive(s) ²	Optical	Media read- er	Graphics adapter(s) and GPU computing	1394 adptr	Chassis intrusion switch	Preloaded OS
1137-32G	1xE5-2660 (8C/2.2GHz/20MB/1600)	1600MHz RDIMM	4GBx3	No	No	No	1x3TB 3.5" SATA	DVD±RW	No	1xQuadro K2000 (2GB, 1xDVI-I DL*, 2xDP, 51W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-33G	1xE5-2660 (8C/2.2GHz/20MB/1600)	1600MHz RDIMM	4GBx3	No	No	No	1x2TB 3.5" SATA	DVD±RW	No	1xQuadro K5000 (4GB, 1xDVI-I DL, 1xDVI-D DL, 2xDP, 122W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-34G	1xE5-2665 (8C/2.4GHz/20MB/1600)	1600MHz RDIMM	4GBx4	No	No	No	1x1TB 2.5" SATA	DVD±RW	No	2xQuadro K5000 SLI (Quadro K5000: 4GB, 1xDVI-I DL, 1xDVI-D DL, 2xDP, 122W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-35G	1xE5-2665 (8C/2.4GHz/20MB/1600)	1600MHz RDIMM	4GBx4	No	No	No	1x1TB 2.5" SATA	DVD±RW	No	1xQuadro K4000 (3GB, 1xDVI-I DL, 2xDP, 80W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-36G	1xE5-2670 (8C/2.6GHz/20MB/1600)	1600MHz RDIMM	4GBx3	No	No	No	1x2TB 3.5" SATA	DVD±RW	No	1xQuadro K2000D (2GB, 1xDVI-I DL, 1xDVI-D DL, 1xmini-DP, 51W)	No	Switch	Win7 Pro64 (Downgrade from Win8)

- 1 Model in italics shows that this is a Global Model 2 The SSD drives in italics must be plugged into SATA AHCI connectors (red/orange)

 * DL = Dual Link, SL = Single Link

- · 3-year limited warranty
- · With new MT type 1136/1137 and beyond, ThinkStation C30 introduces new updates to improve the functionality and usability: (These new features are not supported on 1095 and 1097MT models)
 - Intel AMT: upgrades to Intel AMT 8 from Intel AMT 7
 - New TPM chip: STMicroelectronics ST33TPM12LPC
 - Two front USB 2.0 ports upgrade to USB3.0

	 For ThinkStation C30 platform specifications, please see <u>ThinkStation C30 Pl</u> 	atform Specifications sheet
Chipset	Intel C602 Chipset	Tower
Processor	Two LGA2011 sockets, supports up to two processors from Intel Xeon E5-2600 family, 4-channel DDR3 memory controller per processor	Rack-mountable to 3U Raven black color; metal case 5.1"W x 17.5"D x 16.8"H 130mm W x 4444mm D x 427mm H
Memory	UDIMM or RDIMM, ECC, DDR3, 8-channel capable (4-channel per processor), eight 240-pin DIMM sockets 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)	130mm W x 444mm D x 427mm H (without rubber feet) 40.7 lb (18.5kg) max configuration
Additional memory disclaimers	 Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over four DIMMs requires dual processors Mixing of RDIMM and UDIMM is not supported 	24-liter Toolless side cover removal Toolless disk and optical drive removal Toolless adapter retention
Graphics	Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology	Illuminated front icons Rack shelf support or optional rail kit
Onboard drive controllers	 Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support 	Bay 1 5.25",1.6" high, external, for optical Bay 2-4 3.5", 1" high, internal, for hard drive Slot 1: half-length, full-height, PCIe 3.0 x16 (near CPU, x4 elec) Slot 2: full-length, full-height, PCIe 3.0 x16*
Upgrade ROM for onboard drive controllers (opt)	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support	Slot 3: full-length, full-height, 32-bit PCI 2.3 Slot 4: full-length, full-height, PCIe 3.0 x16* Slot 5: full-length, full-height, PCIe 2.0 x4 Slot 6: half-length, full-height, 32-bit PCI 2.3
Discrete drive controller (opt)	One the following, depending on model: LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s,RAID 0, 1 support optional upgrade key for RAID 5 support LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support	* Adapters >75W use auxiliary power connector(s) from PSU
Hard drives	3.5" SATA: SATA 6.0Gb/s, 7200 rpm 2.5" SATA: SATA 6.0Gb/s, 10000 rpm 3.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models mSATA: mSATA SSD, SATA 6.0Gb/s	SECURITY • Security chip (see information on left) • Side cover lock (ships with two identical keys)
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface	Padlock loop (in rear for opt padlock;
Media reader	None (use USB port)	padlock prohibits side cover removal)
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)	Security slot (in rear for optional Kensington® Microsaver® cable;
Rear ports	Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	prohibits side cover removal) • Power-on password
IEEE 1394 adptr (optional)	None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Administrator password Boot sequence control
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Boot without keyboard, mouse, diskette Serial port I/O enable/disable
Speaker	Internal speaker for business audio	USB 2.0 ports enable/disable individually
Onboard Ethernet	One onboard gigabit ethernet, Intel 82579	USB 3.0 ports enable/disable concurrently
Security chip	STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant	Chassis intrusion switch on selected model(s)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black	Intel AMT
Mouse	Optical Wheel Mouse (USB connector), black	Intel Active Management Technology 8 supported
Power supply	800 watts with 80mm side-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified	ISV certifications Please visit www.lenovo.com/support/ISV
Preloaded	One the following, depending on model:	
operating systems (OS)	 Windows 7 Professional 64 Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Windows 8 Pro 64-bit 	Environmental certifications GREENGUARD® certified RoHS-compliant EPEAT™ Gold rating
		Supports ThinkVantage® technologies

	Memory	Memory	ROM for onboard drive	Discrete drive	Pre-conf			Media	Graphics adapter(s) and GPU	1394	Chassis intrusion	Preloaded
Processor(s)	•		controller	controller		Hard drive(s) ²	Optical	reader	computing	adptr	switch	OS
xE5-2680 BC/2.7GHz/20MB/1600)	1600MHz RDIMM	4GBx3	No	No			DVD±RW	No	1xQuadro K2000 (2GB, 1xDVI-I DL*, 2xDP, 51W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
xE5-2690 BC/2.9GHz/20MB/1600)	1600MHz RDIMM	4GBx3	No	No	No	1x3TB 3.5" SATA	DVD±RW	No	(4GB, 1xDVI-I DL, 1xDVI-D DL, 2xDP, 122W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
xE5-2630 6C/2.3GHz/15MB/1333)	1600MHz RDIMM	4GBx4	No	No	No	1x3TB 3.5" SATA	DVD±RW	No	(4GB, 1xDVI-I DL, 1xDVI-D DL, 2xDP, 122W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
xE5-2630 6C/2.3GHz/15MB/1333)	1600MHz RDIMM	4GBx3	No	No	No	1x2TB 3.5" SATA	DVD±RW	No	1xQuadro K4000 (3GB, 1xDVI-I DL, 2xDP, 80W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
xE5-2640 6C/2.5GHz/15MB/1333)	1600MHz UDIMM	2GBx8	No	No	No	1x1TB 3.5" SATA	DVD±RW	No	1xQuadro K4000 (3GB, 1xDVI-I DL, 2xDP, 80W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
x x x x x x x x x	E5-2680 C/2.7GHz/20MB/1600) E5-2690 C/2.9GHz/20MB/1600) E5-2630 C/2.3GHz/15MB/1333) E5-2630 C/2.3GHz/15MB/1333) E5-2640 C/2.5GHz/15MB/1333)	E5-2680	E5-2680	E5-2680	E5-2680 (2.7GHz/20MB/1600) 1600MHz RDIMM 4GBx3 No No No RDIMM 4GBx4 No No RDIMM 4GBx3 No No RDIMM 4GBx4 No No RDIMM 4GBx5 No No RDIMM 4GBx6 NO RDIMM NO RDIMM 4GBx6 NO	E5-2680 (C/2.7GHz/20MB/1600) 1600MHz RDIMM 4GBx3 No No No No No C/2.9GHz/20MB/1600) 1600MHz RDIMM 4GBx3 No No No No No No C/2.9GHz/20MB/1600) 1600MHz RDIMM 4GBx4 No No No No C/2.3GHz/15MB/1333) 1600MHz RDIMM 4GBx4 No No No No C/2.3GHz/15MB/1333) 1600MHz RDIMM 4GBx3 No No No No C/2.3GHz/15MB/1333) 1600MHz RDIMM 2GBx8 No No No No No C/2.5GHz/15MB/1333) 1600MHz RDIMM 2GBx8 No	E5-2680 (7)	E5-2680	E5-2680	E5-2680 C/2.7GHz/20MB/1600)	E5-2680 C/2.7GHz/20MB/1600)	E5-2680 C/2.7GHz/20MB/1600)

· 3-year limited warranty

• With new MT type 1136/1137 and beyond, ThinkStation C30 introduces new updates to improve the functionality and usability: (These new features are not supported on 1095 and 1097MT models)

- Intel AMT: upgrades to Intel AMT 8 from Intel AMT 7 New TPM chip: STMicroelectronics ST33TPM12LPC
- Two front USB 2.0 ports upgrade to USB3.0
- For ThinkStation C30 platform specifications, please see ThinkStation C30 Platform Specifications sheet

Chipset	Intel C602 Chipset	Tower				
Processor	Two LGA2011 sockets, supports up to two processors from Intel Xeon E5-2600 family, 4-channel DDR3 memory controller per processor	Rack-mountable to 3U Raven black color; metal case 5.1"W x 17.5"D x 16.8"H 130mm W x 4444mm D x 427mm H				
Memory	UDIMM or RDIMM, ECC, DDR3, 8-channel capable (4-channel per processor), eight 240-pin DIMM sockets 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)	130mm W x 444mm D x 427mm H (without rubber feet) 40.7 lb (18.5kg) max configuration				
Additional memory disclaimers	Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over four DIMMs requires dual processors Mixing of RDIMM and UDIMM is not supported	24-liter Toolless side cover removal Toolless disk and optical drive removal Toolless adapter retention				
Graphics	Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology	Illuminated front icons 4 disk				
Onboard drive controllers	Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support	Bay 1 5.25",1.6" high, external, for optical Bay 2-4 3.5", 1" high, internal, for hard drive Slot 1: half-length, full-height, PCle 3.0 x16 (near CPU, x4 elec) Slot 2: full-length, full-height, PCle 3.0 x16* Slot 3: full-length, full-height, 32-bit PCl 2.3				
Upgrade ROM for onboard drive controllers (opt)	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support	Slot 4: full-length, full-height, PCle 3.0 x16* Slot 5: full-length, full-height, PCle 2.0 x4 Slot 6: half-length, full-height, 32-bit PCl 2.3				
Discrete drive controller (opt)	One the following, depending on model: LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s,RAID 0, 1 support optional upgrade key for RAID 5 support LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support	* Adapters >75W use auxiliary power connector(s) from PSU				
Hard drives	3.5" SATA: SATA 6.0Gb/s, 7200 rpm 2.5" SATA: SATA 6.0Gb/s, 10000 rpm 3.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models mSATA: mSATA SSD, SATA 6.0Gb/s	SECURITY • Security chip (see information on left) • Side cover lock (ships with two identical keys)				
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface	Padlock loop (in rear for opt padlock;				
Media reader	None (use USB port)	padlock prohibits side cover removal) • Security slot (in rear for optional				
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)	Kensington® Microsaver® cable;				
Rear ports	Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	prohibits side cover removal) • Power-on password				
IEEE 1394 adptr (optional)	None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Administrator password Boot sequence control Boot without keyboard, mouse, diskette				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Serial port I/O enable/disable				
Speaker Onboard Ethernet	Internal speaker for business audio One onboard gigabit ethernet, Intel 82579	USB 2.0 ports enable/disable individually				
	STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant	USB 3.0 ports enable/disable concurrently				
Security chip		Chassis intrusion switch on selected model(s)				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black	Intel AMT				
Mouse	Optical Wheel Mouse (USB connector), black	Intel Active Management Technology 8 supported				
Power supply	800 watts with 80mm side-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified	ISV certifications Please visit www.lenovo.com/support/ISV				
Preloaded operating systems (OS)	One the following, depending on model: Windows 7 Professional 64 Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Windows 8 Pro 64-bit	Environmental certifications GREENGUARD® certified RoHS-compliant EPEAT™ Gold rating				
		Supports ThinkVantage® technologies				

¹ Model in italics shows that this is a Global Model 2 The SSD drives in italics must be plugged into SATA AHCl connectors (red/orange)

* DL = Dual Link, SL = Single Link

Type- model ¹	Processor(s)	Memory (MHz/type)	Memory DIMMs	Upgrade ROM for onboard drive controller	Discrete drive controller	Pre-conf RAID	Hard drive(s) ²	Optical	Media reader	Graphics adapter(s) and GPU computing	1394 adptr	Chassis intrusion switch	Preloaded OS
1137-67G	2xE5-2640 (6C/2.5GHz/15MB/1333)	1600MHz UDIMM	2GBx8	No	No	No	1x1TB 3.5" SATA	DVD±RW	No	1xQuadro K4000 (3GB, 1xDVI-I DL*, 2xDP, 80W)	No	Switch	Win7 Pro64
1137-68G	2xE5-2640 (6C/2.5GHz/15MB/1333)	1600MHz UDIMM	2GBx8	No	No	No	1x1TB 3.5" SATA	DVD±RW	No	1xQuadro K4000 (3GB, 1xDVI-I DL, 2xDP, 80W)	No	Switch	Win7 Pro64
1137-69G	2xE5-2660 (8C/2.2GHz/20MB/1600)	1600MHz UDIMM	2GBx8	No	No	No	1x1TB 3.5" SATA	DVD±RW	No	1xQuadro K4000 (3GB, 1xDVI-I DL, 2xDP, 80W)	No	Switch	Win7 Pro64
1137-71G	2xE5-2660 (8C/2.2GHz/20MB/1600)	1600MHz UDIMM	2GBx8	No	No	No	1x1TB 3.5" SATA	DVD±RW	No	1xQuadro K4000 (3GB, 1xDVI-I DL, 2xDP, 80W)	No	Switch	Win7 Pro64
1137-72G	2xE5-2660 (8C/2.2GHz/20MB/1600)	1600MHz UDIMM	2GBx8	No	No	No	1x1TB 3.5" SATA	DVD±RW	No	1xQuadro K4000 (3GB, 1xDVI-I DL, 2xDP, 80W)	No	Switch	Win7 Pro64 (Downgrade from Win8)

• 3-year limited warranty

• With new MT type 1136/1137 and beyond, ThinkStation C30 introduces new updates to improve the functionality and usability:

(These new features are not supported on 1095 and 1097MT models)

- Intel AMT: upgrades to Intel AMT 8 from Intel AMT 7 New TPM chip: STMicroelectronics ST33TPM12LPC Two front USB 2.0 ports upgrade to USB3.0
- For ThinkStation C30 platform specifications, please see <u>ThinkStation C30 Platform Specifications</u> sheet

Chipset	Intel C602 Chipset	Tower				
Processor	Two LGA2011 sockets, supports up to two processors from Intel Xeon E5-2600 family, 4-channel DDR3 memory controller per processor	Rack-mountable to 3U Raven black color; metal case 5.1 "W x 17.5"D x 16.8"H □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □				
Memory	UDIMM or RDIMM , ECC , DDR3 , 8-channel capable (4-channel per processor), eight 240-pin DIMM sockets 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)	130mm W x 444mm D x 427mm H (without rubber feet) 40.7 lb (18.5kg) max configuration				
Additional memory disclaimers	 Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over four DIMMs requires dual processors Mixing of RDIMM and UDIMM is not supported 	24-liter Toolless side cover removal Toolless disk and optical drive removal Toolless adapter retention				
Graphics	Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology	Illuminated front icons 4 disk				
Onboard drive controllers	 Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support 	Bay 1 5.25",1.6" high, external, for optical Bay 2-4 3.5", 1" high, internal, for hard drive Slot 1: half-length, full-height, PCle 3.0 x16 (near CPU, x4 elec) Slot 2: full-length, full-height, PCle 3.0 x16* Slot 3: full-length, full-height, 32-bit PCl 2.3				
Upgrade ROM for onboard drive controllers (opt)	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support	Slot 3: full-length, full-height, PCle 3.0 x16* Slot 5: full-length, full-height, PCle 2.0 x4 Slot 6: half-length, full-height, 32-bit PCl 2.3				
Discrete drive controller (opt)	One the following, depending on model: LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s,RAID 0, 1 support optional upgrade key for RAID 5 support LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support	* Adapters >75W use auxiliary power connector(s) from PSU				
Hard drives	3.5" SATA: SATA 6.0Gb/s, 7200 rpm 2.5" SATA: SATA 6.0Gb/s, 10000 rpm 3.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models mSATA: mSATA SSD, SATA 6.0Gb/s	SECURITY • Security chip (see information on left) • Side cover lock (ships with two identical keys)				
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface	Padlock loop (in rear for opt padlock; Padlock loop (in rear for opt padlock)				
Media reader	None (use USB port)	padlock prohibits side cover removal) • Security slot (in rear for optional				
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)	Kensington® Microsaver® cable;				
Rear ports	Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	prohibits side cover removal) • Power-on password				
IEEE 1394 adptr (optional)	None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Administrator password Boot sequence control Boot without keyboard, mouse, diskette				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Serial port I/O enable/disable				
Speaker Onboard Ethernet	Internal speaker for business audio One onboard gigabit ethernet, Intel 82579	USB 2.0 ports enable/disable individually				
Security chip	STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant	USB 3.0 ports enable/disable concurrently Chassis intrusion switch on selected model(s)				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black	Intel AMT				
Mouse	Optical Wheel Mouse (USB connector), black	Intel Active Management Technology 8 supported				
Power supply	800 watts with 80mm side-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified	ISV certifications				
Preloaded operating systems (OS)	One the following, depending on model: • Windows 7 Professional 64 • Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit • Windows 8 Pro 64-bit	Please visit <u>www.lenovo.com/support/ISV</u> Environmental certifications GREENGUARD® certified RoHS-compliant EPEATTM Gold rating				
		Supports ThinkVantage® technologies				

¹ Model in italics shows that this is a Global Model 2 The SSD drives in italics must be plugged into SATA AHCI connectors (red/orange)

ThinkStation C30 (1137) - TopSeller (September 2013)

Tuno	Processor(s)	Memory	Memory	Upgrade ROM for onboard drive	Pre-conf			Media	Graphics adapter(s) and GPU	1204	Chassis intrusion	Preloaded
Type- model*	- Xeon E5 Family	(MHz/type)		controller	RAID	Hard drive(s)**	Optical	reader		adptr	switch	OS
1137-86G	1xE5-2609 v2 (4C/2.5GHz/10MB/1333)	1600MHz RDIMM	4GBx2	No	No	1x1TB 3.5" SATA	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-87G	1xE5-2620 v2 (6C/2.1GHz/15MB/1600)	1600MHz RDIMM	4GBx2	No	No	1x256GB 2.5" SSD - OPAL	DVD±RW	No	No	No		Win7 Pro64 (Downgrade from Win8)
1137-88G	1xE5-2630 v2 (6C/2.6GHz/15MB/1600)	1600MHz RDIMM	4GBx2	No	No	1x2TB 3.5" SATA	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-89G	1xE5-2603 v2 (4C/1.8GHz/10MB/1333)	1600MHz RDIMM	4GBx1	No	No	1x1TB 3.5" SATA	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-91G	1xE5-2630 v2 (6C/2.6GHz/15MB/1600)	1600MHz RDIMM	4GBx2	SAS	No	2x300GB 2.5" SAS	DVD±RW	No	1xQuadro K4000 (3GB, 1xDVI-I DL, 2xDP, 80W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-92G	1xE5-2640 v2 (8C/2GHz/20MB/1600)	1600MHz RDIMM	4GBx4	No	No	1x3TB 3.5" SATA	DVD±RW	No	1xQuadro K5000 (4GB, 1xDVI-I DL, 1xDVI-D DL, 2xDP, 122W)	No		Win7 Pro64 (Downgrade from Win8)
1137-93G	1xE5-2650 v2 (8C/2.6GHz/20MB/1866)	1600MHz RDIMM	4GBx2	No	No	2x3TB 3.5" SATA	DVD±RW	No	1xQuadro K5000 (4GB, 1xDVI-I DL, 1xDVI-D DL, 2xDP, 122W)	No	Switch	Win7 Pro64 (Downgrade from Win8)

^{*} Model in italics shows that this is a Global Model ** The SSD drives in italics must be plugged into red or orange SATA connectors *** DL = Dual Link, SL = Single Link

- 3-year limited warranty
- $\bullet \ \ \textit{For ThinkStation C30 platform specifications}, \textit{please see} \ \underline{\textit{ThinkStation C30 Platform Specifications}} \ \textit{sheet}$

Chipset	Intel C602 Chipset	Tower
Intel AMT	Intel Active Management Technology 8 supported	• Rack-mountable to 3U 📗 👸 🗓
Processor	Two LGA2011 sockets, integrated 4-channel DDR3 memory controller per processor, only one E5-1600 or E5-1600 v2 processor are supported	Rack-mountable to 3U Raven black color; metal case 5.1"W x 17.5"D x 16.8"H 130mm W x 444mm D x 427mm H □
Memory	UDIMM or RDIMM, ECC, DDR3, 8-channel capable (4-channel per processor), eight 240-pin DIMM sockets 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)	130mm W x 444mm D x 427mm H (without rubber feet) 40.7 lb (18.5kg) max configuration 24-liter
Additional memory disclaimers	 Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over four DIMMs requires dual processors Mixing of RDIMM and UDIMM is not supported When using processor from Xeon E5-1600 and E5-1600 v2 series, only four DIMM sockets for CPU1 are available and max memory cacpacity is 32GB (UDIMM, 8GBx4)/128GB (RDIMM, 32GBx4) 	Toolless side cover removal Toolless disk and optical drive removal Toolless adapter retention Illuminated front icons Rack shelf support or optional rail kit Bay 1 5.25",1.6" high, external, for optical
Graphics	Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology	Bay 2-4 3.5", 1" high, internal, for hard drive Slot 1: half-length, full-height, PCle 3.0 x16 (near CPU, x4 elec)
Onboard drive controllers	Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support	Slot 2: full-length, full-height, PCle 3.0 x16* Slot 3: full-length, full-height, 32-bit PCl 2.3 Slot 4: full-length, full-height, PCle 3.0 x16* Slot 5: full-length, full-height, PCle 2.0 x4 Slot 6: half-length, full-height, 32-bit PCl 2.3
Upgrade ROM for onboard drive controllers (opt)	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support	* Adapters >75W use auxiliary power connector(s) from PSU
Discrete drive controller (opt)	None	SECURITY • Security chip (see information on left)
Hard drive(s)	3.5" SATA: SATA 6.0Gb/s, 7200 rpm SATA 6.0Gb/s, 7200 rpm, integrated 8GB NAND flash S.5" SATA: SATA 6.0Gb/s, 120000 rpm SATA 6.0Gb/s, 15000 rpm SATA 6.0Gb/s, 15000 rpm SOlid State Drive (SSD), SATA 6.0Gb/s OPAL-capable on some models mSATA: mSATA SSD, SATA 6.0Gb/s MSATA SSD, SATA 6.0Gb	Side cover lock (ships with two identical keys) Padlock loop (in rear for opt padlock; padlock prohibits side cover removal) Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal) Power-on password
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface	Administrator password
Media reader	None (use USB port)	Boot sequence control Boot without keyboard, mouse, diskette
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)	Serial port I/O enable/disable
Rear ports	Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	USB 2.0 ports enable/disable individually USB 3.0 ports enable/disable concurrently
IEEE 1394 adptr (optional)	None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Chassis intrusion switch on selected model(s) ISV certifications
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Please visit www.lenovo.com/support/ISV
Speaker	Internal speaker for business audio	
Onboard Ethernet	One onboard gigabit ethernet, Intel 82579	Environmental certifications
Security chip	STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant	GREENGUARD® certified
Keyboard/Mouse	104-key keyboard (USB)/Optical Wheel Mouse (USB)	RoHS-compliant EPEAT™ Gold rating
Power supply	800 watts with 80mm side-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold gualified	Supports ThinkVantage® technologies

ThinkStation C30 (1137) - TopSeller (September 2013) - II

				Upgrade ROM for					Graphics adapter(s)		Chassis	
Type- model*	Processor(s) - Xeon E5 Family	Memory (MHz/type)	Memory DIMMs	onboard drive controller	Pre-conf RAID	Hard drive(s)**	Optical	Media reader	and GPU computing***	1394 adptr	intrusion switch	Preloaded OS
1137-94G	2xE5-2650 v2 (8C/2.6GHz/20MB/1866)	1600MHz RDIMM	4GBx4	SAS	No	2x300GB 3.5" SAS	DVD±RW	No	1xQuadro K5000 (4GB, 1xDVI-I DL, 1xDVI-D DL, 2xDP, 122W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-95G	2xE5-2643 v2 (6C/3.5GHz/25MB/1866)	1600MHz RDIMM	4GBx4	No	No	1x128GB mSATA 3.5	DVD±RW	No	1xQuadro K5000 (4GB, 1xDVI-I DL, 1xDVI-D DL, 2xDP, 122W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-96G	1xE5-1660 v2 (6C/3.7GHz/15MB/1866)	1600MHz RDIMM	4GBx1	No	No	1x180GB 2.5" SSD	DVD±RW	No	1xQuadro K2000 (2GB, 1xDVI-I DL, 2xDP, 51W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-97G	1xE5-2609 v2 (4C/2.5GHz/10MB/1333)	1600MHz RDIMM	4GBx2	No	No	1x256GB 2.5" SSD - OPAL	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-D3G	1xE5-2620 v2 (6C/2.1GHz/15MB/1600)	1600MHz UDIMM	4GBx2	No	No	1x256GB 2.5" SSD - OPAL	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
1137-D4G	1xE5-2630 v2 (6C/2.6GHz/15MB/1600)	1600MHz UDIMM	4GBx2	No	No	1x1TB 3.5" SATA	DVD±RW	No	No	No	Switch	Win7 Pro64 (Downgrade from Win8)

^{*} Model in italics shows that this is a Global Model ** The SSD drives in italics must be plugged into red or orange SATA connectors *** DL = Dual Link, SL = Single Link

- 3-year limited warranty
- For ThinkStation C30 platform specifications, please see <u>ThinkStation C30 Platform Specifications</u> sheet

Chipset	Intel C602 Chipset	Tower
Intel AMT	Intel Active Management Technology 8 supported	• Rack-mountable to 3U
Processor	Two LGA2011 sockets, integrated 4-channel DDR3 memory controller per processor, only one E5-1600 or E5-1600 v2 processor are supported	• 5.1"W x 17.5"D x 16.8"H
Memory	UDIMM or RDIMM, ECC, DDR3, 8-channel capable (4-channel per processor), eight 240-pin DIMM sockets 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)	130mm W x 444mm D x 427mm H (without rubber feet) 40.7 lb (18.5kg) max configuration 24-liter
Additional memory disclaimers	 Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over four DIMMs requires dual processors Mixing of RDIMM and UDIMM is not supported When using processor from Xeon E5-1600 and E5-1600 v2 series, only four DIMM sockets for CPU1 are available and max memory cacpacity is 32GB (UDIMM, 8GBx4)/128GB (RDIMM, 32GBx4) 	Toolless side cover removal Toolless disk and optical drive removal Toolless adapter retention Illuminated front icons Rack shelf support or optional rail kit Bay 1 5.25",1.6" high, external, for optical
Graphics	Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology	Bay 2-4 3.5", 1" high, internal, for hard drive Slot 1: half-length, full-height, PCle 3.0 x16 (near CPU, x4 elec)
Onboard drive controllers	Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support	Slot 2: full-length, full-height, PCle 3.0 x16* Slot 3: full-length, full-height, 32-bit PCl 2.3 Slot 4: full-length, full-height, PCle 3.0 x16* Slot 5: full-length, full-height, PCle 2.0 x4 Slot 6: half-length, full-height, 32-bit PCl 2.3
Upgrade ROM for onboard drive controllers (opt)	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support	* Adapters >75W use auxiliary power connector(s) from PSU
Discrete drive controller (opt)	None	SECURITY • Security chip (see information on left)
Hard drive(s)	3.5" SATA: SATA 6.0Gb/s, 7200 rpm 3.5" Hybrid: SATA 6.0Gb/s, 7200 rpm, integrated 8GB NAND flash 2.5" SATA: SATA 6.0Gb/s, 10000 rpm 3.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s OPAL-capable on some models mSATA: mSATA SSD, SATA 6.0Gb/s	Side cover lock (ships with two identical keys) Padlock loop (in rear for opt padlock; padlock prohibits side cover removal) Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal) Power-on password
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface	Administrator password
Media reader	None (use USB port)	Boot sequence control Boot without keyboard, mouse, diskette
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)	Serial port I/O enable/disable
Rear ports	Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	USB 2.0 ports enable/disable individually USB 3.0 ports enable/disable concurrently
IEEE 1394 adptr (optional)	None. Optional FireWire PCle adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Chassis intrusion switch on selected model(s) ISV certifications
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Please visit www.lenovo.com/support/ISV
Speaker	Internal speaker for business audio	
Onboard Ethernet	One onboard gigabit ethernet, Intel 82579	Environmental certifications
Security chip	STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant	GREENGUARD® certified
Keyboard/Mouse	104-key keyboard (USB)/Optical Wheel Mouse (USB)	RoHS-compliant EPEAT™ Gold rating
Power supply	800 watts with 80mm side-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold gualified	Supports ThinkVantage® technologies

ThinkStation C30 (1137) - TopSeller (March 2014)

Type- model [*]	Processor(s) - Xeon E5 Family	Memory (MHz/type)	Memory DIMMs		Pre-conf RAID	Hard drive(s)"	Optical	Media reader	Graphics adapter(s) and GPU computing***	1394 adptr	Chassis intrusion switch	Preloaded OS	
1137-J3G	1xE5-2603 v2 4C/1.8GHz/10MB/1333MHz	1600MHz UDIMM	2GBx2	No	No	1x1TB 3.5" SATA	DVD±RW	N/A	Open	No	Switch	Win7 Pro64 (Downgrade from Win8)	l

^{*} Model in italics shows that this is a Global Model ** The SSD drives in italics must be plugged into red or orange SATA connectors *** DL = Dual Link, SL = Single Link

- 3-year limited warranty
- For ThinkStation C30 platform specifications, please see ThinkStation C30 Platform Specifications sheet

Chipset	Intel C602 Chipset	Tower
Intel AMT	Intel Active Management Technology 8 supported	• Rack-mountable to 3U
Processor	Two LGA2011 sockets, integrated 4-channel DDR3 memory controller per	Rack-mountable to 3U Raven black color; metal case 5.1"W x 17.5"D x 16.8"H
	processor, only one E5-1600 or E5-1600 v2 processor are supported	• 130mm W x 444mm D x 427mm H
Memory	UDIMM or RDIMM, ECC, DDR3, 8-channel capable (4-channel per	(without rubber feet)
	processor), eight 240-pin DIMM sockets 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)	40.7 lb (18.5kg) max configuration
Additional memory	Actual memory operating speed depends on processor memory	• 24-liter
disclaimers	controller speed, installed memory speed, and quantity of memory DIMMs	Toolless side cover removal Toolless disk and optical drive removal
	Over four DIMMs requires dual processors	Toollogs adapter retention
	Mixing of RDIMM and UDIMM is not supported	Illuminated front icons 3 disk 4 disk
	When using processor from Xeon E5-1600 and E5-1600 v2 series, The four DNAM and the four CRUM are profited as a fine control of the	Rack shelf support or optional rail kit
	only four DIMM sockets for CPU1 are available and max memory cacpacity is 32GB (UDIMM, 8GBx4)/128GB (RDIMM, 32GBx4)	Bay 1 5.25",1.6" high, external, for optical
Graphics	Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing	Bay 1 5.25",1.6" high, external, for optical Bay 2-4 3.5", 1" high, internal, for hard drive
diapilios	processors, supports NVIDIA SLI technology, NVIDIA Maximus technology	
	Four SATA connectors via integrated Advanced Host Controller	Slot 1: half-length, full-height, PCIe 3.0 x16 (near CPU, x4 elec) Slot 2: full-length, full-height, PCIe 3.0 x16*
Onboard drive	Interface (AHCI) in chipset, two SATA 6.0Gb/s (red),	Slot 3: full-length, full-height, 32-bit PCI 2.3
controllers	two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support	Slot 4: full-length, full-height, PCIe 3.0 x16*
CONTROLLERS	Three SATA connectors via integrated Storage Controller Unit (SCU)	Slot 5: full-length, full-height, PCle 2.0 x4
	in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support	Slot 6: half-length, full-height, 32-bit PCI 2.3
Upgrade ROM	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors	* Adapters >75W use auxiliary power connector(s)
for onboard drive	on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0. 1 support	from PSU
controllers (opt)	RAID 0, 1 Support	CECURITY
Discrete drive controller (opt)	None	SECURITY
Hard drive(s)	3.5" SATA: SATA 6.0Gb/s, 7200 rpm	Security chip (see information on left) Side cover lock (ships with two identical keys)
riara arivo(3)	3.5" Hybrid: SATA 6.0Gb/s, 7200 rpm, integrated 8GB NAND flash	Padlock loop (in rear for opt padlock;
	2.5" SATA: SATA 6.0Gb/s, 10000 rpm	padlock prohibits side cover removal)
	3.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm	Security slot (in rear for optional
	2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s	Kensington® Microsaver® cable;
	OPAL-capable on some models mSATA: mSATA SSD, SATA 6.0Gb/s	prohibits side cover removal) • Power-on password
Ontinal		Administrator password
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface	Boot sequence control
Media reader	None (use USB port)	Boot without keyboard, mouse, diskette
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm) Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin),	Serial port I/O enable/disable
Rear ports	one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	USB 2.0 ports enable/disable individually
IEEE 1394 adptr	None. Optional FireWire PCIe adapter on selected models,	USB 3.0 ports enable/disable concurrently Chassis intrusion switch on selected model(s)
(optional)	1394a-2000, 400Mbps, two 6-pin ports on rear	ISV certifications
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	Please visit <u>www.lenovo.com/support/ISV</u>
Onboard Ethernet	One onboard gigabit ethernet, Intel 82579	Environmental certifications
Security chip	STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant	GREENGUARD® certified
Keyboard/Mouse	104-key keyboard (USB)/Optical Wheel Mouse (USB)	RoHS-compliant
Power supply	800 watts with 80mm side-mounted variable speed fan, universal,	EPEAT™ Gold rating
,,,	Climate Savers® Computing Gold, 80 PLUS® Gold qualified	Supports ThinkVantage® technologies
Can footpoton for im	nortant warranty information	©Lenovo

ThinkStation C30 (1137) - TopSeller (April 2014)

Product Specifications Reference (PSREF)

Type- model	Processor(s) - Xeon E5 Family	Memory (MHz/type)	Memory DIMMs	Upgrade ROM for onboard drive controller	Pre-conf RAID	Hard drive(s) ^{··}	Optical	Media reader	Graphics adapter(s) and GPU computing***	1394 adptr	Chassis intrusion switch	Preloaded OS
1137-G9G	1xXeonE5-2630 v2 6C/2.6GHz/15MB/1600MHz	1600MHz UDIMM	4GBx2	No	No	1x2TB 3.5" SATA	DVD±RW	No	Open	No	Switch	Win7 Pro64 (Downgrade from Win8.1)
1137-H1G	1xXeonE5-2609 v2 4C/2.5GHz/10MB/1333MHz	1600MHz UDIMM	4GBx2	No	No	1x256GB 2.5" SSD(OPAL)	DVD±RW	No	Open	No	Switch	Win7 Pro64 (Downgrade from Win8.1)
1137-J3G	1xXeonE5-2603 v2 4C/1.8GHz/10MB/1333MHz	1600MHz UDIMM	2GBx2	No	No	1x1TB 3.5" SATA	DVD±RW	No	Open	No	Switch	Win7 Pro64 (Downgrade from Win8)

^{*} Model in italics shows that this is a Global Model ** The SSD drives in italics must be plugged into red or orange SATA connectors *** DL = Dual Link, SL = Single Link

- 3-year limited warranty
- For ThinkStation C30 platform specifications, please see ThinkStation C30 Platform Specifications sheet

Chipset	Intel C602 Chipset	Tower				
Intel AMT	Intel Active Management Technology 8 supported	• Rack-mountable to 3U				
Processor	Two LGA2011 sockets, integrated 4-channel DDR3 memory controller per processor, only one E5-1600 or E5-1600 v2 processor are supported	Rack-mountable to 3U Raven black color; metal case 5.1 "W x 17.5"D x 16.8"H 130mm W x 444mm D x 427mm H (without rubber feet)				
Memory	UDIMM or RDIMM, ECC, DDR3, 8-channel capable (4-channel per processor), eight 240-pin DIMM sockets 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)	130mm W x 444mm D x 427mm H (without rubber feet) 40.7 lb (18.5kg) max configuration 24-liter				
Additional memory disclaimers	 Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over four DIMMs requires dual processors Mixing of RDIMM and UDIMM is not supported When using processor from Xeon E5-1600 and E5-1600 v2 series, only four DIMM sockets for CPU1 are available and max memory cacpacity is 32GB (UDIMM, 8GBx4)/128GB (RDIMM, 32GBx4) 	Toolless side cover removal Toolless disk and optical drive removal Toolless adapter retention Illuminated front icons Rack shelf support or optional rail kit Bay 1 5.25",1.6" high, external, for optical				
Graphics	Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology	Bay 2-4 3.5", 1" high, internal, for hard drive Slot 1: half-length, full-height, PCle 3.0 x16 (near CPU, x4 elec)				
Onboard drive controllers	 Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support 	Slot 1: half-length, full-height, PCIe 3.0 x16 (near CPU, x4 elect Slot 2: full-length, full-height, PCIe 3.0 x16* Slot 3: full-length, full-height, 32-bit PCI 2.3 Slot 4: full-length, full-height, PCIe 3.0 x16* Slot 5: full-length, full-height, PCIe 2.0 x4 Slot 6: half-length, full-height, 32-bit PCI 2.3				
Upgrade ROM for onboard drive controllers (opt)	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support	* Adapters >75W use auxiliary power connector(s) from PSU				
Discrete drive controller (opt)	None	SECURITY • Security chip (see information on left)				
Hard drive(s)	3.5" SATA: SATA 6.0Gb/s, 7200 rpm 3.5" Hybrid: SATA 6.0Gb/s, 7200 rpm, integrated 8GB NAND flash 2.5" SATA: SATA 6.0Gb/s, 10000 rpm 3.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s OPAL-capable on some models mSATA: mSATA SSD, SATA 6.0Gb/s	Side cover lock (ships with two identical keys) Padlock loop (in rear for opt padlock; padlock prohibits side cover removal) Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal) Power-on password				
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface	Administrator password Boot page particular				
Media reader	None (use USB port)	Boot sequence control Boot without keyboard, mouse, diskette				
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)	Serial port I/O enable/disable				
Rear ports	Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	USB 2.0 ports enable/disable individually USB 3.0 ports enable/disable concurrently				
IEEE 1394 adptr (optional)	None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Chassis intrusion switch on selected model(s) ISV certifications				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Please visit www.lenovo.com/support/ISV				
Speaker	Internal speaker for business audio					
Onboard Ethernet	One onboard gigabit ethernet, Intel 82579	Environmental certifications				
Security chip	STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant	GREENGUARD® certified				
Keyboard/Mouse	104-key keyboard (USB)/Optical Wheel Mouse (USB)	RoHS-compliant				
Power supply	800 watts with 80mm side-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified	EPEAT™ Gold rating Supports ThinkVantage® technologies				

				Upgrade ROM for	Discrete					Graphics adapter(s)		Chassis	
Type- model ¹	Processor(s)	Memory (MHz/type)	Memory	onboard drive controller	drive controller	Pre-conf RAID	Hard drive(s) ²	Optical	Media reader	and GPU computing	1394 adptr	intrusion switch	Preloaded OS
	1xE5-2620 (6C/2GHz/15MB/1333)	1600MHz UDIMM	4GBx1	No	No	No	1x1TB 3.5" SATA	DVD±RW		1xQuadro K2000 (2GB, 1xDVI-I DL*, 2xDP, 51W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
1136-23G	1xE5-2620 (6C/2GHz/15MB/1333)	1600MHz UDIMM	4GBx1	SAS	No	No	1x300GB 3.5" SAS	DVD±RW	No	1xQuadro K2000 (2GB, 1xDVI-I DL, 2xDP, 51W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
1136-25G	1xE5-2620 (6C/2GHz/15MB/1333)	1600MHz UDIMM	4GBx1	No	No	No	1x1TB 3.5" SATA	DVD±RW	No	1xQuadro K2000 (2GB, 1xDVI-I DL, 2xDP, 51W)	No	Switch	Win8 Pro64
1136-27G	1xE5-2620 (6C/2GHz/15MB/1333)	1600MHz UDIMM	4GBx1	SAS	No	No	1x300GB 3.5" SAS	DVD±RW	No	1xQuadro K2000 (2GB, 1xDVI-I DL, 2xDP, 51W)	No	Switch	Win8 Pro64

¹ Model in italics shows that this is a Global Model 2 The SSD drives in italics must be plugged into SATA AHCI connectors (red/orange)

* DL = Dual Link, SL = Single Link

- · 3-year limited warranty
- With new MT type 1136/1137 and beyond, ThinkStation C30 introduces new updates to improve the functionality and usability: (These new features are not supported on 1095 and 1097MT models)
 - Intel AMT: upgrades to Intel AMT 8 from Intel AMT 7
 - New TPM chip: STMicroelectronics ST33TPM12LPC
 - Two front USB 2.0 ports upgrade to USB3.0
- For ThinkStation C30 platform specifications, please see ThinkStation C30 Platform Specifications sheet

Chipset	Intel C602 Chipset	Tower						
Processor	Two LGA2011 sockets, supports up to two processors from Intel Xeon E5-2600 family, 4-channel DDR3 memory controller per processor	Rack-mountable to 3U Raven black color; metal case 5.1"W x 17.5"D x 16.8"H 130mm W x 4444mm D x 427mm H						
Memory	UDIMM or RDIMM, ECC, DDR3, 8-channel capable (4-channel per processor), eight 240-pin DIMM sockets 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)	130mm W x 444mm D x 427mm H (without rubber feet) 40.7 lb (18.5kg) max configuration						
Additional memory disclaimers	Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over four DIMMs requires dual processors Mixing of RDIMM and UDIMM is not supported	24-liter Toolless side cover removal Toolless disk and optical drive removal Toolless adapter retention						
Graphics	Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology	Illuminated front icons 4 disk						
Onboard drive controllers	Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support	Bay 1 5.25",1.6" high, external, for optical Bay 2-4 3.5", 1" high, internal, for hard drive Slot 1: half-length, full-height, PCle 3.0 x16 (near CPU, x4 elec) Slot 2: full-length, full-height, PCle 3.0 x16*						
Upgrade ROM for onboard drive controllers (opt)	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support	Slot 3: full-length, full-height, 32-bit PCI 2.3 Slot 4: full-length, full-height, PCIe 3.0 x16* Slot 5: full-length, full-height, PCIe 2.0 x4 Slot 6: half-length, full-height, 32-bit PCI 2.3						
Discrete drive controller (opt)	One the following, depending on model: LSI SAS 9240-8i: SATA 6.0Gb/s, SAS 6.0Gb/s,RAID 0, 1 support optional upgrade key for RAID 5 support LSI SAS 9260-8i: SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 5 support	* Adapters >75W use auxiliary power connector(s) from PSU						
Hard drives	3.5" SATA: SATA 6.0Gb/s, 7200 rpm 2.5" SATA: SATA 6.0Gb/s, 10000 rpm 3.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s, OPAL-capable on selected models mSATA: mSATA SSD, SATA 6.0Gb/s	SECURITY • Security chip (see information on left) • Side cover lock (ships with two identical keys)						
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface	Padlock loop (in rear for opt padlock; added a second padlock;						
Media reader	None (use USB port)	padlock prohibits side cover removal) • Security slot (in rear for optional						
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)	Kensington® Microsaver® cable;						
Rear ports	Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	prohibits side cover removal) • Power-on password						
IEEE 1394 adptr (optional)	None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Administrator password Boot sequence control Boot without keyboard, mouse, diskette						
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Serial port I/O enable/disable						
Speaker	Internal speaker for business audio	USB 2.0 ports enable/disable individually						
Onboard Ethernet	One onboard gigabit ethernet, Intel 82579	USB 3.0 ports enable/disable concurrently						
Security chip	STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant	Chassis intrusion switch on selected model(s)						
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black	Intel AMT						
Mouse	Optical Wheel Mouse (USB connector), black	Intel Active Management Technology 8 supported						
Power supply	800 watts with 80mm side-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified	ISV certifications Please visit www.lenovo.com/support/ISV						
Preloaded operating systems (OS)	One the following, depending on model: Windows 7 Professional 64 Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Windows 8 Pro 64-bit	Environmental certifications GREENGUARD® certified RoHS-compliant EPEAT™ Gold rating						
		Supports ThinkVantage® technologies						

ThinkStation C30 (1136) - September 2013

Type-	Processor(s)	Memory	Memory		Pre-conf			Media	Graphics adapter(s) and GPU	1394	Chassis intrusion	Preloaded
model*	- Xeon E5 Family	(MHz/type)	DIMMs	controller	RAID	Hard drive(s)"	Optical	reader	computing***	adptr	switch	os
	1xE5-2667 v2 (8C/3.3GHz/25MB/1866)	1600MHz RDIMM	4GBx2	No	No	1x240GB 2.5" SSD	DVD±RW	No	1xQuadro K4000 (3GB, 1xDVI-I DL, 2xDP, 80W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
	1xE5-2695 v2 (12C/2.4GHz/30MB/1866)	1600MHz RDIMM	8GBx2	No	No	2x4TB 3.5" SATA	DVD±RW	No	1xQuadro K5000 (4GB, 1xDVI-I DL, 1xDVI-D DL, 2xDP, 122W)	No	Switch	Win7 Pro64 (Downgrade from Win8)
1136-81G	1xE5-2680 v2 (10C/2.8GHz/25MB/1866)	1600MHz RDIMM	4GBx4	No	No	2x2TB 3.5" SATA Hybrid	DVD±RW	No	1xQuadro K5000 (4GB, 1xDVI-I DL, 1xDVI-D DL, 2xDP, 122W)	No	Switch	Win7 Pro64 (Downgrade from Win8)

^{*} Model in italics shows that this is a Global Model ** The SSD drives in italics must be plugged into red or orange SATA connectors *** DL = Dual Link, SL = Single Link

- · 3-year limited warranty
- For ThinkStation C30 platform specifications, please see <u>ThinkStation C30 Platform Specifications</u> sheet

Chipset	Intel C602 Chipset	Tower				
Intel AMT	Intel Active Management Technology 8 supported	• Rack-mountable to 3U				
Processor	Two LGA2011 sockets, integrated 4-channel DDR3 memory controller per processor, only one E5-1600 or E5-1600 v2 processor are supported	• 5.1"W x 17.5"D x 16.8"H				
Memory	UDIMM or RDIMM, ECC, DDR3, 8-channel capable (4-channel per processor), eight 240-pin DIMM sockets 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)	130mm W x 444mm D x 427mm H (without rubber feet) 40.7 lb (18.5kg) max configuration 24-liter				
Additional memory disclaimers	 Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over four DIMMs requires dual processors Mixing of RDIMM and UDIMM is not supported When using processor from Xeon E5-1600 and E5-1600 v2 series, only four DIMM sockets for CPU1 are available and max memory cacpacity is 32GB (UDIMM, 8GBx4)/128GB (RDIMM, 32GBx4) 	Toolless side cover removal Toolless disk and optical drive removal Toolless adapter retention Illuminated front icons Rack shelf support or optional rail kit Bay 1 5.25",1.6" high, external, for optical				
Graphics	Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology	Bay 2-4 3.5", 1" high, internal, for hard drive Slot 1: half-length, full-height, PCle 3.0 x16 (near CPU, x4 elec)				
Onboard drive controllers	Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support	Slot 2: full-length, full-height, PCle 3.0 x16* Slot 3: full-length, full-height, 32-bit PCl 2.3 Slot 4: full-length, full-height, PCle 3.0 x16* Slot 5: full-length, full-height, PCle 2.0 x4 Slot 6: half-length, full-height, 32-bit PCl 2.3				
Upgrade ROM for onboard drive controllers (opt)	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support	* Adapters >75W use auxiliary power connector(s) from PSU				
Discrete drive controller (opt)	None	SECURITY • Security chip (see information on left)				
Hard drive(s)	3.5" SATA: SATA 6.0Gb/s, 7200 rpm 3.5" Hybrid: SATA 6.0Gb/s, 7200 rpm, integrated 8GB NAND flash 2.5" SATA: SATA 6.0Gb/s, 10000 rpm 3.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm 2.5" SSD: Solid State Drive (SSD), SATA 6.0Gb/s OPAL-capable on some models mSATA: mSATA SSD, SATA 6.0Gb/s	Side cover lock (ships with two identical keys) Padlock loop (in rear for opt padlock; padlock prohibits side cover removal) Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal) Power-on password				
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface	Administrator password				
Media reader	None (use USB port)	Boot sequence control Boot without keyboard, mouse, diskette				
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)	Serial port I/O enable/disable				
Rear ports	Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	USB 2.0 ports enable/disable individually USB 3.0 ports enable/disable concurrently				
IEEE 1394 adptr (optional)	None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Chassis intrusion switch on selected model(s) ISV certifications				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Please visit www.lenovo.com/support/ISV				
Speaker	Internal speaker for business audio					
Onboard Ethernet	One onboard gigabit ethernet, Intel 82579	Environmental certifications				
Security chip	STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant	GREENGUARD® certified				
Keyboard/Mouse	104-key keyboard (USB)/Optical Wheel Mouse (USB)	RoHS-compliant EPEAT™ Gold rating				
Power supply	800 watts with 80mm side-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold gualified	Supports ThinkVantage® technologies				

ThinkStation C30 (1136) - October 2013

				Upgrade ROM for					Graphics adapter(s)		Chassis	
Type- model	Processor(s) - Xeon E5 Family	Memory (MHz/type)		onboard drive controller	Pre-conf RAID	Hard drive(s)**	Optical	Media reader	and GPU	1394 adptr	intrusion switch	Preloaded OS
	1xE5-2620 v2 6C/2.1GHz/15MB/1600MHz	,,,	4GBx1	No		1x1TB 3.5" SATA Hybrid	DVD±RW	No	1xQuadro K2000 (2GB, 1xDVI-I DL*, 2xDP, 51W)	No		Win7 Pro64 (Downgrade from Win8)
1136-B2G	1xE5-2650 v2 8C/2.6GHz/20MB/1866MHz	1600MHz UDIMM	8GBx1	No	No	1x256GB 2.5" SSD - OPAL	DVD±RW	No	No	No		Win7 Pro64 (Downgrade from Win8)
1136-C5G	1xE5-2620 v2 6C/2.1GHz/15MB/1600MHz	1600MHz UDIMM	4GBx1	No	No	1x2TB 3.5" SATA	DVD±RW	No	No	No		Win7 Pro64 (Downgrade from Win8)

^{*} Model in italics shows that this is a Global Model ** The SSD drives in italics must be plugged into red or orange SATA connectors *** DL = Dual Link, SL = Single Link

- · 3-year limited warranty
- For ThinkStation C30 platform specifications, please see ThinkStation C30 Platform Specifications sheet

Chipset	Intel C602 Chipset	Tower				
Intel AMT	Intel Active Management Technology 8 supported	• Rack-mountable to 3U				
Processor	Two LGA2011 sockets, integrated 4-channel DDR3 memory controller per processor, only one E5-1600 or E5-1600 v2 processor are supported	Rack-mountable to 3U Raven black color; metal case 5.1"W x 17.5"D x 16.8"H 130mm W x 4444mm D x 427mm H				
Memory	UDIMM or RDIMM, ECC, DDR3, 8-channel capable (4-channel per processor), eight 240-pin DIMM sockets 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)	(without rubber feet) 40.7 lb (18.5kg) max configuration 24-liter				
Additional memory disclaimers	 Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over four DIMMs requires dual processors Mixing of RDIMM and UDIMM is not supported When using processor from Xeon E5-1600 and E5-1600 v2 series, only four DIMM sockets for CPU1 are available and max memory cacpacity is 32GB (UDIMM, 8GBx4)/128GB (RDIMM, 32GBx4) 	Toolless side cover removal Toolless disk and optical drive removal Toolless adapter retention Illuminated front icons Rack shelf support or optional rail kit Bay 1 5.25",1.6" high, external, for optical				
Graphics	Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology	Bay 2-4 3.5", 1" high, internal, for hard drive Slot 1: half-length, full-height, PCle 3.0 x16 (near CPU, x4 elec)				
Onboard drive controllers	Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support	Slot 1: Hall-length, full-height, PCle 3.0 x16 (near CPU, x4 elec) Slot 2: full-length, full-height, PCle 3.0 x16* Slot 3: full-length, full-height, PCle 3.0 x16* Slot 4: full-length, full-height, PCle 2.0 x4 Slot 6: half-length, full-height, 32-bit PCl 2.3				
Upgrade ROM for onboard drive controllers (opt)	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support	* Adapters >75W use auxiliary power connector(s) from PSU				
Discrete drive controller (opt)	None	SECURITY • Security chip (see information on left)				
Hard drive(s)	3.5" SATA: SATA 6.0Gb/s, 7200 rpm SATA 6.0Gb/s, 7200 rpm, integrated 8GB NAND flash SATA 6.0Gb/s, 12000 rpm SATA 6.0Gb/s, 10000 rpm SATA 6.0Gb/s, 15000 rpm SOlid State Drive (SSD), SATA 6.0Gb/s OPAL-capable on some models mSATA: mSATA SSD, SATA 6.0Gb/s SATA SSD, SATA 6.0Gb/s SATA 6.0Gb/s	Side cover lock (ships with two identical keys) Padlock loop (in rear for opt padlock; padlock prohibits side cover removal) Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal) Power-on password				
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface	Administrator password Past assumes central				
Media reader	None (use USB port)	Boot sequence control Boot without keyboard, mouse, diskette				
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)	Serial port I/O enable/disable				
Rear ports	Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	USB 2.0 ports enable/disable individually USB 3.0 ports enable/disable concurrently				
IEEE 1394 adptr (optional)	None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Chassis intrusion switch on selected model(s) ISV certifications				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Please visit www.lenovo.com/support/ISV				
Speaker	Internal speaker for business audio					
Onboard Ethernet	One onboard gigabit ethernet, Intel 82579	Environmental certifications				
Security chip	STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant	GREENGUARD® certified				
Keyboard/Mouse	104-key keyboard (USB)/Optical Wheel Mouse (USB)	│RoHS-compliant │EPEAT™ Gold rating				
Power supply	800 watts with 80mm side-mounted variable speed fan, universal,	Li Li a additating				

ThinkStation C30 (1136) - April 2014

Product Specifications Reference (PSREF)

Type- model	Processor(s) - Xeon E5 Family	Memory (MHz/type)	,	Upgrade ROM for onboard drive controller	Pre-conf RAID	Hard drive(s)"	Optical	Media reader	Graphics adapter(s) and GPU computing***	1394 adptr	Chassis intrusion switch	Preloaded OS
1136-D4G	2xXeonE5-2667 v2 8C/3.3GHz/25MB/1866MHz	1866MHz UDIMM	4GBx4	No	No	1x500GB 3.5" SATA	DVD	No	1xNVS 510 2GB/4xminiDP/35W	No	Switch	Win7 Pro64
1136-D5G	2xXeonE5-2620 v2 6C/2.1GHz/15MB/1600MHz	1600MHz UDIMM	4GBx4	No	No	1x2TB 3.5" SATA	DVD±RW	No	1xNVS 310 512MB/2xDP/19.5W	No	Switch	Win7 Pro64

^{*} Model in italics shows that this is a Global Model ** The SSD drives in italics must be plugged into red or orange SATA connectors *** DL = Dual Link, SL = Single Link

- 3-year limited warranty
- For ThinkStation C30 platform specifications, please see ThinkStation C30 Platform Specifications sheet

Chipset	Intel C602 Chipset	Tower
Intel AMT	Intel Active Management Technology 8 supported	• Rack-mountable to 3U
Processor	Two LGA2011 sockets, integrated 4-channel DDR3 memory controller per processor, only one E5-1600 or E5-1600 v2 processor are supported	Rack-mountable to 3U Raven black color; metal case 5.1"W x 17.5"D x 16.8"H 130mm W x 4444mm D x 427mm H
Memory	UDIMM or RDIMM, ECC, DDR3, 8-channel capable (4-channel per processor), eight 240-pin DIMM sockets 64GB max (UDIMM, 8GBx8)/256GB max (RDIMM, 32GBx8)	(without rubber feet) 40.7 lb (18.5kg) max configuration 24-liter
Additional memory disclaimers	 Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Over four DIMMs requires dual processors Mixing of RDIMM and UDIMM is not supported When using processor from Xeon E5-1600 and E5-1600 v2 series, only four DIMM sockets for CPU1 are available and max memory cacpacity is 32GB (UDIMM, 8GBx4)/128GB (RDIMM, 32GBx4) 	Toolless side cover removal Toolless disk and optical drive removal Toolless adapter retention Illuminated front icons Rack shelf support or optional rail kit Bay 1 5.25",1.6" high, external, for optical
Graphics	Two PCI Express 3.0 x16 slots for graphics adapters and GPU computing processors, supports NVIDIA SLI technology, NVIDIA Maximus technology	Bay 2-4 3.5", 1" high, internal, for hard drive Slot 1: half-length, full-height, PCIe 3.0 x16 (near CPU, x4 elec)
Onboard drive controllers	Four SATA connectors via integrated Advanced Host Controller Interface (AHCI) in chipset, two SATA 6.0Gb/s (red), two SATA 3.0Gb/s (orange), RAID 0, 1, 5 support Three SATA connectors via integrated Storage Controller Unit (SCU) in chipset, SATA 3.0Gb/s, RAID 0, 1, 5 support	Slot 2: full-length, full-height, PCle 3.0 x 16* Slot 3: full-length, full-height, 32-bit PCl 2.3 Slot 4: full-length, full-height, PCle 3.0 x 16* Slot 5: full-length, full-height, PCle 2.0 x 4 Slot 6: half-length, full-height, 32-bit PCl 2.3
Upgrade ROM for onboard drive controllers (opt)	Optional SAS HDD Enablement Module upgrades the 3 SATA connectors on SCU to 3 SATA/SAS connectors, SATA 3.0Gb/s, SAS 3.0Gb/s, RAID 0, 1 support	* Adapters >75W use auxiliary power connector(s) from PSU
Discrete drive controller (opt)	None	SECURITY • Security chip (see information on left)
Hard drive(s)	3.5" SATA: SATA 6.0Gb/s, 7200 rpm 3.5" Hybrid: SATA 6.0Gb/s, 7200 rpm, integrated 8GB NAND flash 2.5" SATA: SATA 6.0Gb/s, 10000 rpm 3.5" SAS/2.5" SAS: SAS 6.0Gb/s, 15000 rpm SOlid State Drive (SSD), SATA 6.0Gb/s OPAL-capable on some models mSATA: mSATA SSD, SATA 6.0Gb/s	Side cover lock (ships with two identical keys) Padlock loop (in rear for opt padlock; padlock prohibits side cover removal) Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal) Power-on password
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, SATA interface	Administrator password
Media reader	None (use USB port)	Boot sequence control Boot without keyboard, mouse, diskette
Front ports	Two USB 3.0, microphone (3.5mm), headphone (3.5mm)	Serial port I/O enable/disable
Rear ports	Eight USB 2.0, two USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	USB 2.0 ports enable/disable individually USB 3.0 ports enable/disable concurrently
IEEE 1394 adptr (optional)	None. Optional FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Chassis intrusion switch on selected model(s)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	ISV certifications
Speaker	Internal speaker for business audio	Please visit <u>www.lenovo.com/support/ISV</u>
Onboard Ethernet	One onboard gigabit ethernet, Intel 82579	Environmental certifications
Security chip	STMicroelectronics ST33TPM12LPC, TCG 1.2-compliant	GREENGUARD® certified
Keyboard/Mouse	104-key keyboard (USB)/Optical Wheel Mouse (USB)	RoHS-compliant
Power supply	800 watts with 80mm side-mounted variable speed fan, universal, Climate Savers® Computing Gold, 80 PLUS® Gold qualified	EPEAT™ Gold rating Supports ThinkVantage® technologies