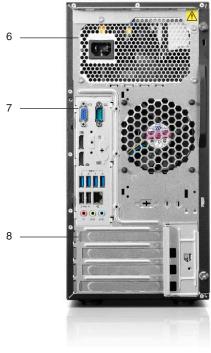
ThinkStation E32 Tower - Overview



Front view

- 1. External 5.25" Bay for optical
- 2. External 5.25" Bay for optical or optional 3.5" hard drive bay
- 3. Media card reader (optional) or optional mSATA SSD drive
- 4. Power Button
- 5. Front I/O: 2 USB 3.0 (blue) 1 Headphone

1 Microphone



Hear VIEW

- 6. 280 watts Power Supply, 80 PLUS Bronze
- 7. Rear I/O: 2 USB 2.0 4 USB 3.0(blue)

serial (9-pin)

RJ-45 (GbE)

line-in

1 line-out

1 microphone-in 2 DisplayPort (for Intel HD Graphics) 1 VGA (for Intel HD Graphics)

8. 1 PCle 3.0 x16

1 PCle 2.0 x1 1 PCle 2.0 x1 1 PCle 2.0 x16 (x4 elec) 1 PCl

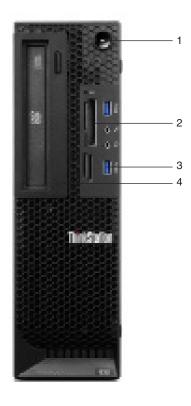
Internal

- One LGA1150 socket, supports one processor from Intel Xeon E3-1200 v3, Core i7-4000, and Core-i5 4000 families
- 4 DIMM sockets, supports up to 32GB ECC or non-ECC UDIMM memory
- Up to three 3.5" hard drive bays, two 3.5" hard drive bays are standard

Mechanical

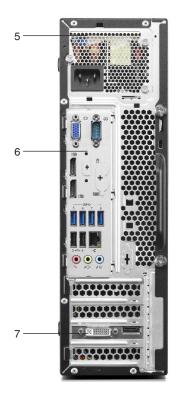
- Raven black color; metal case
- 6.9"W x 17.0"D x 16.7"H (with handle)
- 175mm W x 431mm D x 425mm H
- 27.56 lb (12.5kg) max configuration
- 25-liter

ThinkStation E32 SFF - Overview



Front view

- 1. Power Button
- 2. Media card reader (optional) or optional mSATA SSD drive
- 3. Front I/O: 2 USB 3.0 (blue) 1 Headphone 1 Microphone
- 4. 1 External 5.25" Bay for optical or optional slim optical + 3.5" hard drive bay or optional standalone 3.5" hard drive bay



Rear view

- 5. 240 watts Power Supply, 80 PLUS Bronze
- 6. Rear I/O: 2 USB 2.0 4 USB 3.0(blue) 1 serial (9-pin) 1 R.I-45 (GhF)
 - 1 RJ-45 (GbE) 1 line-in 1 line-out
 - 1 microphone-in 2 DisplayPort (for Intel HD Graphics) 1 VGA (for Intel HD Graphics)
- 7.* 1 PCIe 3.0 x16 1 PCIe 2.0 x1 1 PCIe 2.0 x16 (x4 elec) 1 PCI
 - * Discrete graphics adapter is optional

Internal

- One LGA1150 socket, supports one processor from Intel Xeon E3-1200 v3, Core i7-4000, and Core-i5 4000 families
- 4 DIMM sockets, supports up to 32GB ECC or non-ECC UDIMM memory
- Up to two 3.5" hard drive bays and one 2.5" hard drive bay, one 3.5" hard drive bay is standard

Mechanical

- Raven black color; metal case
- 13.35"W x 15.0"D x 3.93"H
- 338mm W x 375mm D x 102mm H
- 17.20 lb (7.8kg) max configuration
- 12.9-liter

ThinkStation E32 Platform Specifications - I of III

From factor	1.1.0022.20		ation E32	Tower				Think	Station E32 SFF				
Chipset Intel AMT	Intel C226 Chips		nology C	CUDDC**	d on madal-	with les	tal Vaan aras	ecore					
Processor	Intel Active Mana One LGA1150 so supports one pro integrated 2-char	ocket, cessor from nnel DDR3 m	Intel Xeor emory co	E3-1200 ntroller, o) v3, Core i7	-4000, (Core-i5 4000,	Core-i3 4000,	and Pentium G30 ed processors.	000 families,			
	The following pro	cessors are	supported	l:	,								
	Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory speed	ECC Memory Supported	Processor Graphic	s			
	Xeon E3-1220 v3	4	4	3.1 GHz	3.5 GHz	8 MB	DDR3-1600	Yes					
	Xeon E3-1225 v3	4	4	3.2 GHz	3.6 GHz	8 MB	DDR3-1600	Yes	Intel HD Graphics	P4600			
	Xeon E3-1230 v3	4	8	3.3 GHz	3.7 GHz	8 MB	DDR3-1600	Yes					
	Xeon E3-1240 v3	4	8	3.4 GHz	3.8 GHz	8 MB	DDR3-1600	Yes					
	Xeon E3-1245 v3	4	8	3.4 GHz	3.8 GHz	8 MB	DDR3-1600	Yes	Intel HD Graphics	P4600			
	Xeon E3-1270 v3	4	8	3.5 GHz	3.9 GHz	8 MB	DDR3-1600	Yes					
	Xeon E3-1275 v3	4	8	3.5 GHz	3.9 GHz	8 MB	DDR3-1600	Yes	Intel HD Graphics	P4600			
	Xeon E3-1280 v3	4	8	3.6 GHz	4 GHz	8 MB	DDR3-1600	Yes					
	Core i5-4670	4	4	3.4 GHz	3.8 GHz	6 MB	DDR3-1600		Intel HD Graphics	4600			
	Core i5-4570	4	4	3.2 GHz	3.6 GHz	6 MB	DDR3-1600		Intel HD Graphics	4600			
	Core i7-4770	4	8	3.4 GHz	3.9 GHz	8 MB	DDR3-1600		Intel HD Graphics	4600			
	Core i3-4340	2	4	3.6 GHz		4 MB	DDR3-1600	Yes	Intel HD Graphics				
	Core i3-4330	2	4	3.5 GHz		4 MB	DDR3-1600	Yes	Intel HD Graphics				
	Core i3-4130	2	4	3.4 GHz 3.3 GHz		3 MB	DDR3-1600	Yes	Intel HD Graphics	4400			
	Pentium G3430 Pentium G3420	2	2	3.3 GHz		3 MB	DDR3-1600	Yes	Intel HD Graphics Intel HD Graphics				
	Pentium G3220	2	2	3 GHz		3 MB	DDR3-1333	Yes	Intel HD Graphics				
	Notes: All processors 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/												
Memory type	1600MHz UDIMN												
Memory DIMM sockets	Four 240-pin DIM	IM sockets											
Memory capacity	Up to 32GB ECC	/non-ECC (8	GBx4)										
Additional memory disclaimers ntel HD Graphics n processor	 Actual memory of Mixing of ECC ar Integrated Intel Huses main memory 	nd non-ECC is D Graphics ory, works alo	not support on Pentiur ng with di	ted n, Core it screte gra	3, i5, i7 and a	Xeon Et	3-12x5 v3 poculti-display,	essors,	· ·	•			
optional) Discrete Graphics	enables three dis	x16 slots for	discrete	graphics	adapters:		Two PCI Expr	ess x16 slots f	or discrete graph	ics adapters:			
adapters	One PCI Expre One PCI Expre	ss 2.0 x16 sl	ot (x4 ele	ctrical, 75	SW max)		One PCI ExOne PCI Ex	press 3.0 x16 press 2.0 x16	slot (40W max, n slot (x4 electrical	ear CPÚ) , 40W max)			
	Supports the follo	owing NVIDIA	A Quadro,	NVS gra	phics adapte	ers:		T					
		Memory Size	Processor	r Cores	Display Conn		Max. Displays	Power	Supported on E32 Tower	ThinkStation E32 SFF			
	Quadro K2000	2GB	384		1 dual-link DV 2 DisplayPort		4*	51W	•				
	Quadro K2000D	2GB	384		1 dual-link DV 1 dual-link DV 1 mini Display	'I-D	4*	51W	•				
	Quadro K600	1GB	192	2	1 dual-link DV 1 DisplayPort	1-1	2	41W	•	•			
	Quadro 410	512MB	192		1 dual-link DV 1 DisplayPort		2	37W	•	•			
	NVS 510	2GB	192		4 mini Display (with 4 mini D DP dongles)	Port P to	4	35W	•	•			
	* Quadro K2000 and C	Juadro K2000D a	re equipped	with 3 onhos	ard display conn	actors 1 F	Dienlave require a e	unnorted DisplayPe	ort 1 2 Multi-Stream car	nahla huh or dien			

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

ThinkStation E32 Platform Specifications - II of III

From factor		ThinkS	tation E32 Tower		ThinkStation E32 SFF							
			CLIDA				Supported or	n ThinkStation				
		Memory Size	CUDA Processor Cores	Display Connectors	Max. Displays	Power	E32 Tower	E32 SFF				
Discrete Graphics adapters	NVS 315	1024MB	48	DMS59 to dual single-link DVI-I or dual DisplayPort	2	19.5W	•	•				
	NVS 310	512 MB	48	2 DisplayPort	2	19.5W	•	•				
Onboard drive controllers	Four SATA conne SATA 6.0Gb/s, R supports Intel Sn	AID 0, 1, 5 s	board drive contro upport, se Technology	ller in chipset,	SATA 6.0Gb/s.	nnectors via onl RAID0, 1 supp Smart Respons	oort,	troller in chipset	i,			
Drive Bays	Bay 2 Standard optional, Bay 3 Optional, (1) for op (2) for op Bay 4 Standard	l, 5.25", 1.6" 3.5", 1" high 3.5", 1" high otional media otional mSAT I. 3.5", 1" high	high, external, for high, external, for high, external, for high, supports one of a card reader, external, primar, internal, primar, internal, primar, internal, 2nd ha	optical or ay the following: rnal v hard drive bay	Bay 1 Standa Bay 2 Standa also st (1) 5.2 driv (2) 3.5 Bay 3 Option Bay 4 Option	ard, 3.5", 1" higher (Bay 3) ard, 3.5", 1" higher (Bay 3) ard, 5.25", 1.6" upports one of 15" slim optical ove bay (internal 1" 2nd hard drive lal, 2.5", 0.6" higher (Bay 3.5", 0.5" higher (Bay 3.5", 0.5" higher (Bay 3.5", 0.5" higher (Bay 3.5", 0.5" higher (Bay 3.5")	h, internal, primhigh, external, fithe following: access) and 3. b, optional e bay (internal), gh, internal, 3rd gh, supports on	ains optional slim optional 2.5" ary hard drive bor optical, 5" 2nd hard optional I hard drive bay e of the followin	pay			
	Notes: Standard optical an	nd hard drive b bays are avail	pays are included in relable on models with	models;	(1) for optional slim media card reader, external (2) for optional mSATA drive, internal (Bay 4 is not available on slim optical models) Notes: Standard optical and hard drive bays are included in models; optional optical and hard drive bays are available on models with the corresponding drives only							
Hard drive(s)	Supports the follow 3.5" SATA: 2.5" SATA: 2.5" SSD: mSATA:	SATA 6.0 SATA 6.0 Solid Sta (128GB/ mSATA 9	OGb/s, 10000 rpm, ate Drive (SSD), S 180GB/240GB/25 SSD, SATA 6.0Gb/	up to 3TB (250GB/50 up to 1TB (250GB/50 ATA 6.0Gb/s, OPAL- 6GB/480GB) s, 24GB or 128GB for Intel Smart Resp	500GB/1TB) capable on sele	cted models, u						
Optical	Supports DVD-R SATA interface		RW, or Blu-ray Burr		Supports DVD		W, or Blu-ray B	urner,				
Media reader (opt)		media card	reader on selected	I models				selected model	s			
Front ports			one (3.5mm), head				. ,					
Rear ports			rt for models with I	ntel HD Graphics, -pin), one ethernet (RJ-45), three ar	nalog audio nor	ts (line-in, line-	out. mic-in)				
Expansion slots	Slot 1: half-lengt Slot 2: half-lengt	h, full-height h, full-height h, full-height	, PCle 3.0 x16 (75v , PCle 2.0 x1 , PCle 2.0 x16 (x4	v max, near CPU)	Slot 1: Low Pr Slot 2: Low Pr	ofile, PCle 3.0 ofile, PCle 2.0 ofile, PCle 2.0	x16 (40w max, r	near CPU)				
IEEE 1394 adptr (optional)	1394a-2000, 400	Mbps, two 6	ter on selected mo 3-pin ports on rear				PCIe adapter o pin ports on re	on selected mod ar	dels,			
Audio			Realtek® ALC662 c	odec								
Speaker Onboard Ethernet	Internal speaker One onboard gig											
Keyboard			(USB connector)									
Mouse	Optical Wheel Mo	ouse, red wh	neel (USB connect									
Power supply	280 watts with va	riable speed	d fan, autosensing Bronze, 80 PLUS®	, 85% PSU,	240 watts with Climate Savers	variable speed s Computing B	fan, autosensii onze, 80 PLUS	ng, 85% PSU, Bronze qualifie	ed			
	1	, . 9	,		1							

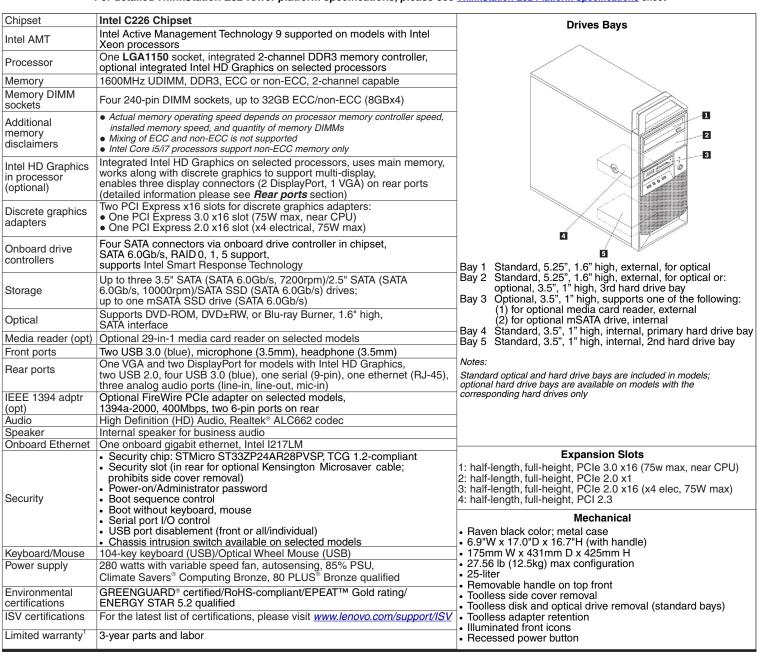
ThinkStation E32 Platform Specifications - III of III

From factor	ThinkStation E3	32 Tower		ThinkStation E32 SFF
Security	Security chip: STMicro ST33ZP244 Security slot (in rear for optional Ke Power-on/Administrator password Boot sequence control Boot without keyboard, mouse Serial port I/O control USB port disablement (front or all/i Chassis intrusion switch available of	ensington® Microsa ndividual)	aver® cable; pro	ohibits side cover removal)
Mechanical	Raven black color; metal case 6.9"W x 17.0"D x 16.7"H (with hand 175mm W x 431mm D x 425mm H 27.56 lb (12.5kg) max configuration 25-liter	dle)	•	Raven black color; metal case 13.35"W x 15.0"D x 3.93"H 338mm W x 375mm D x 102mm H 17.20 lb (7.8kg) max configuration 12.9-liter
Serviceability	Removable handle on top front Toolless side cover removal Toolless disk and optical drive remo Toolless adapter retention Illuminated front icons Recessed power button	oval (standard bay	s) •	Toolless top cover removal Toolless disk and optical drive removal Toolless adapter retention Illuminated front icons Recessed power button
Environmental certifications	GREENGUARD® certified RoHS-compliant EPEAT™ Gold rating ENERGY STAR 5.2-compliant		,	
Warranty	1 or 3-year limited warranty, parts an	d labor		
ThinkVantage [®]	Supports ThinkVantage technologies	i		
Preloaded operating systems	One the following, depending on model: Windows 7 Professional 64 Windows 7 Professional 64 preinst Windows 8 Pro 64-bit			in Windows 8 Pro 64-bit
		Preload	ded OS	Note
		Windows 7	Windows 8	Note
	Intel AppUp	•	•	
	PC Device Stage	•	•	
	Evernote		•	
	Lenovo Companion		•	
	Lenovo Solution Center	•	•	
	Lenovo Support		•	
Preloaded	Norton Internet Security (30 days of virus definitions)	•	•	
applications	Norton Studio		•	
only some listed)	Skype	•	•	
	Cyberlink PowerDVD	•	•	On models with DVD ROM, DVD±RW and BluRay
	Cyberlink PowerDVD Create	•	•	On models with DVD±RW
	Cyberlink Power2Go	•	•	On models with DVD±RW
	Cyberlink Power Producer	•	•	On models with DVD±RW
	Cyberlink PowerDVD Create	•	•	On models with Blu-Ray
	Cyberlink Power2Go	•	•	On models with Blu-Ray
	Cyberlink Power Producer	•	•	On models with Blu-Ray
	Microsoft Office preloaded, purchase product key to activate	•	•	
	AutoCAD LT	•	•	Only on models with Xeon processor

ThinkStation E32 Tower (30A1) - TopSeller (August 2013)

Type- model	Processor	Memory (MHz/type)	Memory DIMMs	Intel HD Graphics	Discrete graphics adapters"	Pre- conf RAID	Storage	Optical	29-in-1 Media reader		Chassis intrusion switch	Preloaded OS
30A10002++	Core i7-4770 (4C/3.4GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD 4600	1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1000E++	Xeon E3-1225v3 (4C/3.2GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD P4600		No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1000F++	Xeon E3-1245v3 (4C/3.4GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx2	Intel HD P4600	1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x500GB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1000G++	Core i7-4770 (4C/3.4GHz/8MB/1600MHz)	1600MHz Non-ECC	2GBx2	Intel HD 4600		No	1x2TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1000H++	Xeon E3-1230v3 (4C/3.3GHz/8MB/1600MHz)	1600MHz Non-ECC	2GBx2			No	1x500GB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1000J++	Xeon E3-1225v3 (4C/3.2GHz/8MB/1600MHz)	1600MHz Non-ECC	2GBx2	Intel HD P4600		No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1000K++	Core i5-4570 (4C/3.2GHz/6MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD 4600		No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)

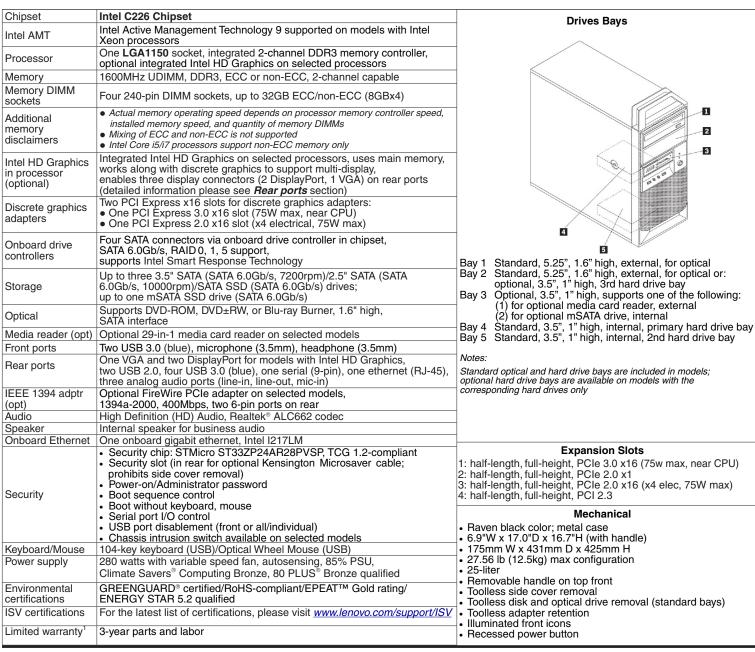
^{*} Model in italics shows that this is a Global Model *** DL = Dual Link, SL = Single Link Country Code "++": The models are available for all WE countries, except UK, EAST and MEA



ThinkStation E32 Tower (30A1) - TopSeller (August 2013) - II

Type- model [*]	Processor	Memory (MHz/type)	Memory DIMMs	Intel HD Graphics	Discrete graphics adapters"	Pre- conf RAID	Storage	Optical	29-in-1 Media reader		Chassis intrusion switch	Preloaded OS
30A1000L++	Xeon E3-1245v3 (4C/3.4GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD P4600		No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1000M++	Xeon E3-1220v3 (4C/3.1GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1		1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1000N++	Core i5-4670 (4C/3.4GHz/6MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD 4600	1xQuadro 410 (512MB, 1xDVI-I DL, 1xDP, 37W)	No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1000P++	Xeon E3-1220v3 (4C/3.1GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1		1xQuadro 410 (512MB, 1xDVI-I DL, 1xDP, 37W)	No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A10024++	Core i7-4770 (4C/3.4GHz/8MB/1600MHz)	1600MHz Non-ECC	2GBx2	Intel HD 4600		No	1x2TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A10025++	Xeon E3-1245v3 (4C/3.4GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD P4600		No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A10026++	Xeon E3-1220v3 (4C/3.1GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1		1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)

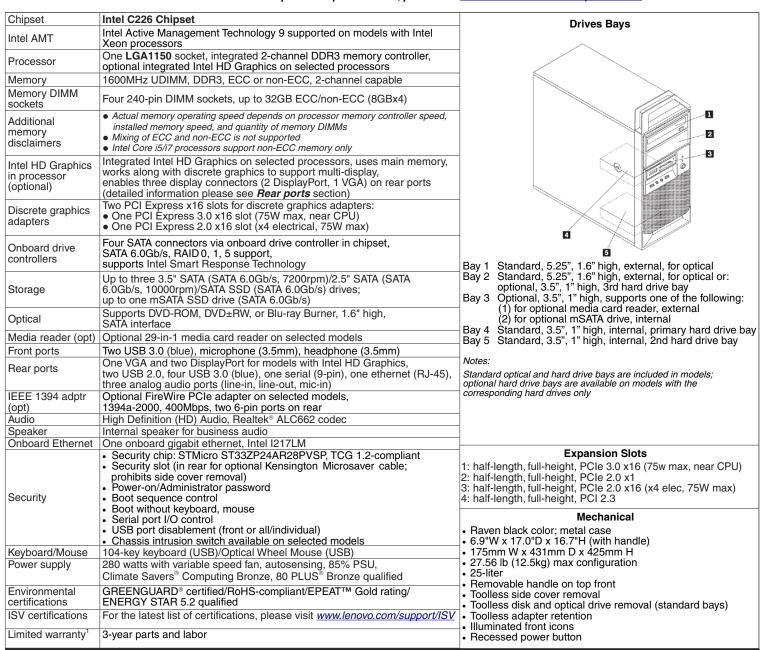
^{*} Model in italics shows that this is a Global Model ** DL = Dual Link, SL = Single Link Country Code "++": The models are available for all WE countries, except UK, EAST and MEA



ThinkStation E32 Tower (30A1) - TopSeller (August 2013) - III

Type- model	Processor	Memory (MHz/type)	Memory DIMMs	Intel HD Graphics	Discrete graphics adapters"	Pre- conf RAID	Storage	Optical	29-in-1 Media reader		Chassis intrusion switch	Preloaded OS
30A10028++	Xeon E3-1230v3 (4C/3.3GHz/8MB/1600MHz)	1600MHz Non-ECC	2GBx2			No	1x500GB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1002A++	Xeon E3-1220v3 (4C/3.1GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1		1xQuadro 410 (512MB, 1xDVI-I DL, 1xDP, 37W)	No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1002B++	Core i5-4570 (4C/3.2GHz/6MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD 4600		No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1002C++	Xeon E3-1245v3 (4C/3.4GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx2	Intel HD P4600	1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x500GB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1002D++	Xeon E3-1225v3 (4C/3.2GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD P4600		No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1002E++	Core i5-4670 (4C/3.4GHz/6MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD 4600	1xQuadro 410 (512MB, 1xDVI-I DL, 1xDP, 37W)	No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)

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ThinkStation E32 Tower (30A1) - TopSeller (October 2013)

Туре-		Memory	Memory	Intel HD	Discrete graphics	Pre-				Chassis intrusion	Preloaded	Base warranty
model*	Processor	(MHz/type)	DIMMs	Graphics	adapters"	RAID	Storage	Optical	reader	switch	os	(-year)***
30A1004D++	Xeon E3-1245 v3 4C/3.4 GHz/ 8 MB/1600MHz	1600NHz Non-ECC	4GBx1	Intel HD P4600	No	No	1x1TB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 (Downgrade from Win8)	3
30A1002A++	Xeon E3-1220 v3 4C/3.1 GHz/ 8 MB/1600MHz	1600NHz Non-ECC	4GBx1	No	1xQuadro 410 512MB, 1xDVI-I DL, 1xDP, 37W)	No	1x1TB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 (Downgrade from Win8)	3
30A10026++	Xeon E3-1220 v3 4C/3.1 GHz/ 8 MB/1600MHz	1600NHz Non-ECC	4GBx1	No	1xQuadro K600 1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x1TB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 (Downgrade from Win8)	3
30A10028++	Xeon E3-1230 v3 4C/3.3 GHz/ 8 MB/1600MHz	1600MHz Non-ECC	2GBx2	No	No	No	1x500GB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 (Downgrade from Win8)	3
30A10045++	Core i3-4330 2C/3.5 GHz/ 4 MB/1600MHz	1600NHz Non-ECC	4GBx1	Intel HD 4600	No	No	1x500GB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 (Downgrade from Win8)	3

"Model in italics shows that this is a Global Model"

"Model in italics shows that this is a Global Model"

"DL = Dual Link, SL = Single Link ****IWS= International Warranty Service® Country Code"++": The models are available for all WE countries, except UK, EAST and MEA

Chipset	Intel C226 Chipset	Drives Bays
Intel AMT	Intel Active Management Technology 9 supported on models with Intel Xeon processors	Drives Bays
Processor	One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors	
Memory	1600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable	
Memory DIMM sockets	Four 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4)	
Additional memory disclaimers	Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Mixing of ECC and non-ECC is not supported Intel Core i5/i7 processors support non-ECC memory only	2
Intel HD Graphics in processor (optional)	Integrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see <i>Rear ports</i> section)	0000
Discrete graphics adapters	Two PCI Express x16 slots for discrete graphics adapters: • One PCI Express 3.0 x16 slot (75W max, near CPU) • One PCI Express 2.0 x16 slot (x4 electrical, 75W max)	
Onboard drive controllers	Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1, 5 support, supports Intel Smart Response Technology	Bay 1 Standard, 5.25", 1.6" high, external, for optical
Storage	Up to three 3.5" SATA (SATA 6.0Gb/s, 7200rpm)/2.5" SATA (SATA 6.0Gb/s, 10000rpm)/SATA SSD (SATA 6.0Gb/s) drives; up to one mSATA SSD drive (SATA 6.0Gb/s)	Bay 2 Standard, 5.25", 1.6" high, external, for optical or: optional, 3.5", 1" high, 3rd hard drive bay Bay 3 Optional, 3.5", 1" high, supports one of the following:
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high, SATA interface	(1) for optional media card reader, external (2) for optional mSATA drive, internal Bay 4 Standard, 3.5", 1" high, internal, primary hard drive ba
Media reader (opt)	Optional 29-in-1 media card reader on selected models	Bay 5 Standard, 3.5", 1" high, internal, 2nd hard drive bay
Front ports Rear ports	Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm) One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	Notes: Standard optical and hard drive bays are included in models; optional hard drive bays are available on models with the
IEEE 1394 adptr	Optional FireWire PCIe adapter on selected models,	corresponding hard drives only
(opt)	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 I217LM	-
Security	Security chip: STMicro ST33ZP24AR28PVSP, TCG 1.2-compliant Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal) Power-on/Administrator password Boot sequence control Boot without keyboard, mouse	Expansion Slots 1: half-length, full-height, PCle 3.0 x16 (75w max, near CPU) 2: half-length, full-height, PCle 2.0 x1 3: half-length, full-height, PCle 2.0 x16 (x4 elec, 75W max) 4: half-length, full-height, PCl 2.3
	Serial port I/O control USB port disablement (front or all/individual) Chassis intrusion switch available on selected models	Mechanical Raven black color; metal case 6.9"W x 17.0"D x 16.7"H (with handle)
Keyboard/Mouse	104-key keyboard (USB)/Optical Wheel Mouse (USB)	• 175mm W x 431mm D x 425mm H
Power supply	280 watts with variable speed fan, autosensing, 85% PSU, Climate Savers® Computing Bronze, 80 PLUS® Bronze qualified	27.56 lb (12.5kg) max configuration 25-liter
Environmental certifications	GREENGUARD® certified/RoHS-compliant/EPEAT™ Gold rating/ ENERGY STAR 5.2 qualified	Removable handle on top front Toolless side cover removal Toolless disk and optical drive removal (standard bays)
ISV certifications	For the latest list of certifications, please visit www.lenovo.com/support/ISV	Toolless adapter retention Illuminated front icons
Limited warranty ¹	3-year parts and labor	Recessed power button

ThinkStation E32 Tower (30A1) - TopSeller (October 2013) - II

Type- model*	Processor	Memory (MHz/type)	Memory DIMMs	Intel HD Graphics	Discrete graphics adapters"	Pre- conf RAID	Storage	Optical	-	Chassis intrusion switch	Preloaded OS	Base warranty (-year)***
30A1002E++	Core i5-4670 4C/3.4 GHz/ 6 MB/1600MHz	1600NHz Non-ECC	4GBx1	Intel HD 4600	1xQuadro 410 512MB, 1xDVI-I DL, 1xDP, 37W)	No	1x1TB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 (Downgrade from Win8)	
30A1002B++	Core i5-4570 4C/3.2 GHz/ 6 MB/1600MHz	1600NHz Non-ECC	4GBx1	Intel HD 4600	No	No	1x1TB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 (Downgrade from Win8)	3
30A1004C++	Xeon E3-1225 v3 4C/3.2 GHz/ 8 MB/1600MHz	1600NHz Non-ECC	4GBx1	Intel HD P4600	No	No	1x1TB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 (Downgrade from Win8)	3
30A1002C++	Xeon E3-1245 v3 4C/3.4 GHz/ 8 MB/1600MHz	1600MHz Non-ECC	4GBx2	Intel HD P4600	1xQuadro K600 1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x500GB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 (Downgrade from Win8)	3

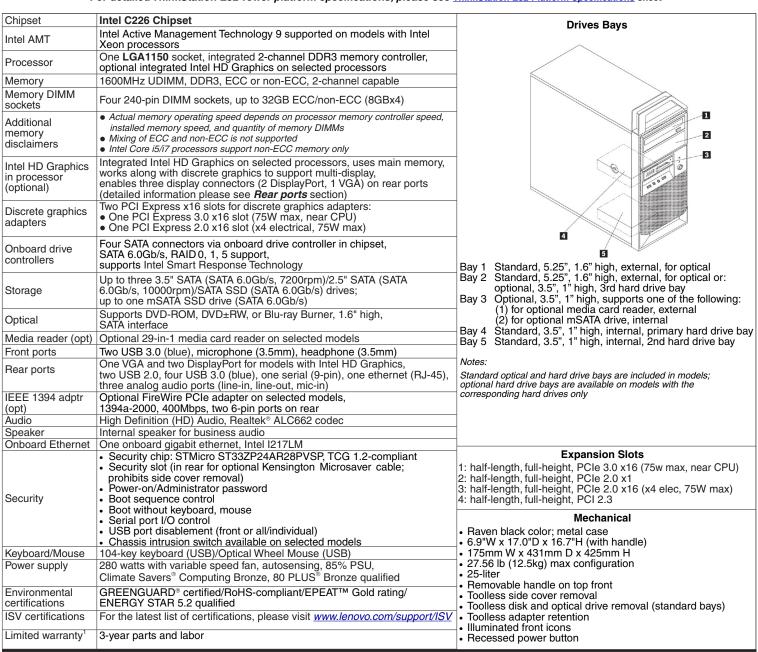
"Model in italics shows that this is a Global Model" "DL = Dual Link, SL = Single Link ***!WS= International Warranty Service® Country Code "++": The models are available for all WE countries, except UK, EAST and MEA

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Memory 160 Memory DIMM sockets Additional memory disclaimers Intel HD Graphics in processor (optional) Discrete graphics adapters Onboard drive controllers Storage Optionary 160 For Samuel 160 Postorage 160 Postorage 160 For Samuel 160 Postorage 160	otional integrated Intel HD Graphics on selected processors 600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable our 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4) Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Mixing of ECC and non-ECC is not supported Intel Core i5/i7 processors support non-ECC memory only stegrated Intel HD Graphics on selected processors, uses main memory, orks along with discrete graphics to support multi-display, nables three display connectors (2 DisplayPort, 1 VGA) on rear ports detailed information please see Rear ports section) wo PCI Express x16 slots for discrete graphics adapters: One PCI Express 3.0 x16 slot (75W max, near CPU) One PCI Express 2.0 x16 slot (x4 electrical, 75W max) our SATA connectors via onboard drive controller in chipset, ATA 6.0Gb/s, RAID 0, 1, 5 support, upports Intel Smart Response Technology	
Memory DIMM sockets Additional memory disclaimers Intel HD Graphics in processor (optional) Discrete graphics adapters Onboard drive controllers Storage Four SAT Suppose A Processor (Appendix Appendix App	our 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4) Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Mixing of ECC and non-ECC is not supported Intel Core i5/i7 processors support non-ECC memory only stegrated Intel HD Graphics on selected processors, uses main memory, orks along with discrete graphics to support multi-display, nables three display connectors (2 DisplayPort, 1 VGA) on rear ports letailed information please see Rear ports section) wo PCI Express x16 slots for discrete graphics adapters: One PCI Express 3.0 x16 slot (75W max, near CPU) One PCI Express 2.0 x16 slot (x4 electrical, 75W max) our SATA connectors via onboard drive controller in chipset, ATA 6.0Gb/s, RAID 0, 1, 5 support, upports Intel Smart Response Technology	
sockets Additional memory disclaimers Intel HD Graphics in processor (optional) Discrete graphics adapters Onboard drive controllers Storage Follows A ii No ii N	Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Mixing of ECC and non-ECC is not supported Intel Core i5/i7 processors support non-ECC memory only Integrated Intel HD Graphics on selected processors, uses main memory, orks along with discrete graphics to support multi-display, nables three display connectors (2 DisplayPort, 1 VGA) on rear ports detailed information please see *Rear ports* section) WO PCI Express x16 slots for discrete graphics adapters: One PCI Express 3.0 x16 slot (75W max, near CPU) One PCI Express 2.0 x16 slot (x4 electrical, 75W max) Our SATA connectors via onboard drive controller in chipset, ATA 6.0Gb/s, RAID 0, 1, 5 support, upports Intel Smart Response Technology	
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in processor (optional) Discrete graphics adapters Onboard drive controllers Storage Worden (de Controller) Worden (de Controller) Fot SA' sup	orks along with discrete graphics to support multi-display, nables three display connectors (2 DisplayPort, 1 VGA) on rear ports detailed information please see <i>Rear ports</i> section) wo PCI Express x16 slots for discrete graphics adapters: One PCI Express 3.0 x16 slot (75W max, near CPU) One PCI Express 2.0 x16 slot (x4 electrical, 75W max) our SATA connectors via onboard drive controller in chipset, ATA 6.0Gb/s, RAID 0, 1, 5 support, upports Intel Smart Response Technology	
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SA sup Storage SA sup	ATA 6.0Gb/s, RAID 0, 1, 5 support, upports Intel Smart Response Technology	
Storage 6.0	n to three 3.5" SATA (SATA 6.0Gb/s, 7200rpm)/2.5" SATA (SATA	Bay 1 Standard, 5.25", 1.6" high, external, for optical
	o to one mSATA SSD drive (SATA 6.0Gb/s)	Bay 2 Standard, 5.25", 1.6" high, external, for optical or: optional, 3.5", 1" high, 3rd hard drive bay Bay 3 Optional, 3.5", 1" high, supports one of the following:
	upports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high, ATA interface	(1) for optional media card reader, external (2) for optional mSATA drive, internal Bay 4 Standard, 3.5", 1" high, internal, primary hard drive bay
Media reader (opt) Opt	ptional 29-in-1 media card reader on selected models	Bay 5 Standard, 3.5", 1" high, internal, 2nd hard drive bay
Front ports Two	wo USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)	
two	ne VGA and two DisplayPort for models with Intel HD Graphics, vo USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), aree analog audio ports (line-in, line-out, mic-in)	Notes: Standard optical and hard drive bays are included in models; optional hard drive bays are available on models with the
IEEE 1394 adptr Opt	ptional FireWire PCIe adapter on selected models, 394a-2000, 400Mbps, two 6-pin ports on rear	corresponding hard drives only
	igh Definition (HD) Audio, Realtek® ALC662 codec	
	ternal speaker for business audio	
	ne onboard gigabit ethernet, Intel I217LM	Funancian Clate
Security - S	Security chip: STMicro ST33ZP24AR28PVSP, TCG 1.2-compliant Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal) Power-on/Administrator password Boot sequence control Boot without keyboard, mouse	Expansion Slots 1: half-length, full-height, PCIe 3.0 x16 (75w max, near CPU) 2: half-length, full-height, PCIe 2.0 x1 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75W max) 4: half-length, full-height, PCI 2.3
• S • U • C	Serial port I/O control USB port disablement (front or all/individual) Chassis intrusion switch available on selected models	• Raven black color; metal case • 6.9"W x 17.0"D x 16.7"H (with handle)
	04-key keyboard (USB)/Optical Wheel Mouse (USB)	• 175mm W x 431mm D x 425mm H
Clir	80 watts with variable speed fan, autosensing, 85% PSU, limate Savers® Computing Bronze, 80 PLUS® Bronze qualified	 27.56 lb (12.5kg) max configuration 25-liter Removable handle on top front
	REENGUARD® certified/RoHS-compliant/EPEAT™ Gold rating/ NERGY STAR 5.2 qualified	Toolless disk and optical drive removal (standard bays)
	and the platest list of contifications release visit versus languages (2007)	
Limited warranty ¹ 3-y	or the latest list of certifications, please visit www.lenovo.com/support/ISV	Toolless adapter retention Illuminated front icons

ThinkStation E32 Tower (30A1) - TopSeller (March 4, 2014)

Type- model	Processor	Memory (MHz/opt ECC)	Memory DIMMs	Intel HD Graphics	Discrete graphics adapters"	Pre- conf RAID	Storage	Optical	29-in-1 Media reader	1394 adptr	Chassis intrusion switch	Preloaded OS
30A10063++	Core i7-4770 (4C/3.4GHz/8MB/1600MHz)	1600MHz	4GBx1	Intel HD 4600	Open	No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8.1)
30A10064++	Core i7-4770 (4C/3.4GHz/8MB/1600MHz)	1600MHz	4GBx1	Intel HD 4600	Open	No	1x1TB Hybrid 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8.1)
30A10065++	Xeon E3-1225 v3 (4C/3.2GHz/8MB/1600MHz)	1600MHz	4GBx1	Intel HD P4600	Open	No	1x1TB Hybrid 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8.1)
30A10066++	Xeon E3-1245 v3 (4C/3.4GHz/8MB/1600MHz)	1600MHz	4GBx2	Intel HD P4600	Open	No	1x2TB Hybrid 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8.1)
30A10067++	Core i7-4770 (4C/3.4GHz/8MB/1600MHz)	1600MHz	4GBx1	Intel HD 4600	Open	No	1x500GB Hybrid 2.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8.1)
30A10068++	Xeon E3-1275 v3 (4C/3.5GHz/8MB/1600MHz)	1600MHz ECC	8GBx1	Intel HD P4600	Open	No	1x2TB Hybrid 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8.1)
30A10069++	Core i7-4770 (4C/3.4GHz/8MB/1600MHz)	1600MHz	4GBx1	Intel HD 4600	Open	No	1x2TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8.1)

*Model in italics shows that this is a Global Model *DL = Dual Link, SL = Single Link ****IWS= International Warranty Service® Country Code "++": The models are available for all WE countries, except UK, EAST and MEA



ThinkStation E32 Tower (30A1) - TopSeller (March 25, 2014)

Type- model	Processor	Memory (MHz/opt ECC)	Memory DIMMs	Intel HD Graphics	Discrete graphics adapters"	Pre- conf RAID	Storage	Optical	29-in-1 Media reader	1394 adptr	Chassis intrusion switch	Preloaded OS
30A1006B++	Xeon E3-1230 v3 (4C/3.3GHz/8MB/1600MHz)	1600MHz ECC	2GBx2	No	Quadro K600 (1GB, 1xDVI-I, 1xDP, 41W)	No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1006C++	Xeon E3-1245 v3 (4C/3.4GHz/8MB/1600MHz)	1600MHz ECC	2GBx2	Intel HD P4600	Open	No	1x500GB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A1006D++	Xeon E3-1275 v3 (4C/3.5GHz/8MB/1600MHz)	1600MHz ECC	2GBx2	Intel HD P4600	Open	No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)

*Model in italics shows that this is a Global Model *DL = Dual Link, SL = Single Link ***IWS= International Warranty Service Country Code "++": The models are available for all WE countries, except UK, EAST and MEA

Chipset	Intel C226 Chipset	Drives Bays
Intel AMT	Intel Active Management Technology 9 supported on models with Intel Xeon processors	Silves Bays
Processor	One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors	
Memory	1600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable	
Memory DIMM sockets	Four 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4)	
Additional memory disclaimers	Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Mixing of ECC and non-ECC is not supported Intel Core i5/i7 processors support non-ECC memory only	2
Intel HD Graphics in processor (optional)	Integrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see <i>Rear ports</i> section)	
Discrete graphics adapters	Two PCI Express x16 slots for discrete graphics adapters: • One PCI Express 3.0 x16 slot (75W max, near CPU) • One PCI Express 2.0 x16 slot (x4 electrical, 75W max)	
Onboard drive controllers	Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1, 5 support, supports Intel Smart Response Technology	Bay 1 Standard, 5.25", 1.6" high, external, for optical
Storage	Up to three 3.5" SATA (SATA 6.0Gb/s, 7200rpm)/2.5" SATA (SATA 6.0Gb/s, 10000rpm)/SATA SSD (SATA 6.0Gb/s) drives; up to one mSATA SSD drive (SATA 6.0Gb/s)	Bay 2 Standard, 5.25", 1.6" high, external, for optical or: optional, 3.5", 1" high, 3rd hard drive bay Bay 3 Optional, 3.5", 1" high, supports one of the following:
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high, SATA interface	(1) for optional media card reader, external (2) for optional mSATA drive, internal Bay 4 Standard, 3.5", 1" high, internal, primary hard drive bay
Media reader (opt)	Optional 29-in-1 media card reader on selected models	Bay 5 Standard, 3.5", 1" high, internal, 2nd hard drive bay
Front ports	Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)	Day o Standard, 6:6 , 1 mgm, mornan, 2nd nard anto bay
Rear ports	One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	Notes: Standard optical and hard drive bays are included in models; optional hard drive bays are available on models with the
IEEE 1394 adptr	Optional FireWire PCle adapter on selected models,	corresponding hard drives only
(opt)	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		
Security	Security chip: STMicro ST33ZP24AR28PVSP, TCG 1.2-compliant Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal) Power-on/Administrator password Boot sequence control Boot without keyboard, mouse	Expansion Slots 1: half-length, full-height, PCle 3.0 x16 (75w max, near CPU) 2: half-length, full-height, PCle 2.0 x1 3: half-length, full-height, PCle 2.0 x16 (x4 elec, 75W max) 4: half-length, full-height, PCl 2.3
	Serial port I/O control USB port disablement (front or all/individual) Chassis intrusion switch available on selected models	• Raven black color; metal case • 6.9"W x 17.0"D x 16.7"H (with handle)
Keyboard/Mouse	104-key keyboard (USB)/Optical Wheel Mouse (USB)	• 175mm W x 431mm D x 425mm H
Power supply	280 watts with variable speed fan, autosensing, 85% PSU, Climate Savers® Computing Bronze, 80 PLUS® Bronze qualified	27.56 lb (12.5kg) max configuration 25-liter Removable handle on top front
Environmental certifications	GREENGUARD® certified/RoHS-compliant/EPEAT™ Gold rating/ ENERGY STAR 5.2 qualified	Toolless disk and optical drive removal (standard bays)
ISV certifications	For the latest list of certifications, please visit www.lenovo.com/support/ISV	Toolless adapter retention Illuminated front icons

ThinkStation E32 Tower (30A0) - August 2013

Type- model	Processor	Memory (MHz/type)	Memory DIMMs	Intel HD Graphics	Discrete graphics adapters"	Pre- conf RAID	Storage	Optical	29-in-1 Media reader		Chassis intrusion switch	Preloaded OS
	XeonE3-1230v3 (4C/3.3GHz/8MB/1600MHz)	1600MHz Non-ECC			1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x1TB 3.5" SATA	DVD±RW	No	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A0000C++	XeonE3-1245v3 (4C/3.4GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD P4600		No	1x1TB 3.5" SATA	DVD±RW	No	No	Switch	Win7 Pro64 (Downgrade from Win8)

^{*}Model in Italics shows that this is a Global Model *** DL = Dual Link, SL = Single Link Country Code "++": The models are available for all WE countries, except UK, EAST and MEA

Processor Oncopt Memory 160 Memory DIMM sockets Additional memory disclaimers Intel HD Graphics in processor (optional) Discrete graphics adapters Onboard drive controllers Storage Very Processor (optional) Two occurs of the controllers Two occurs of the controllers SA SUF	tel Active Management Technology 9 supported on models with Intel eon processors The LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors The End of the Intel HD Graphics on selected processors The Intel Core is a selected processor of the Intel Core i	Drives Bays
Memory 160 Memory DIMM sockets Additional memory disclaimers Intel HD Graphics in processor (optional) Discrete graphics adapters Onboard drive controllers Storage Optionary 160 For Samuel 160 Postorage 160 Postorage 160 For Samuel 160 Postorage 160	otional integrated Intel HD Graphics on selected processors 600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable our 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4) Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Mixing of ECC and non-ECC is not supported Intel Core i5/i7 processors support non-ECC memory only stegrated Intel HD Graphics on selected processors, uses main memory, orks along with discrete graphics to support multi-display, nables three display connectors (2 DisplayPort, 1 VGA) on rear ports detailed information please see Rear ports section) wo PCI Express x16 slots for discrete graphics adapters: One PCI Express 3.0 x16 slot (75W max, near CPU) One PCI Express 2.0 x16 slot (x4 electrical, 75W max) our SATA connectors via onboard drive controller in chipset, ATA 6.0Gb/s, RAID 0, 1, 5 support, upports Intel Smart Response Technology	
Memory DIMM sockets Additional memory disclaimers Intel HD Graphics in processor (optional) Discrete graphics adapters Onboard drive controllers Storage Four SAT Suppose A Processor (Appendix Appendix App	our 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4) Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Mixing of ECC and non-ECC is not supported Intel Core i5/i7 processors support non-ECC memory only stegrated Intel HD Graphics on selected processors, uses main memory, orks along with discrete graphics to support multi-display, nables three display connectors (2 DisplayPort, 1 VGA) on rear ports letailed information please see Rear ports section) wo PCI Express x16 slots for discrete graphics adapters: One PCI Express 3.0 x16 slot (75W max, near CPU) One PCI Express 2.0 x16 slot (x4 electrical, 75W max) our SATA connectors via onboard drive controller in chipset, ATA 6.0Gb/s, RAID 0, 1, 5 support, upports Intel Smart Response Technology	
sockets Additional memory disclaimers Intel HD Graphics in processor (optional) Discrete graphics adapters Onboard drive controllers Storage Follows A ii No ii N	Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Mixing of ECC and non-ECC is not supported Intel Core i5/i7 processors support non-ECC memory only Integrated Intel HD Graphics on selected processors, uses main memory, orks along with discrete graphics to support multi-display, nables three display connectors (2 DisplayPort, 1 VGA) on rear ports detailed information please see *Rear ports* section) WO PCI Express x16 slots for discrete graphics adapters: One PCI Express 3.0 x16 slot (75W max, near CPU) One PCI Express 2.0 x16 slot (x4 electrical, 75W max) Our SATA connectors via onboard drive controller in chipset, ATA 6.0Gb/s, RAID 0, 1, 5 support, upports Intel Smart Response Technology	
Additional memory disclaimers in	installed memory speed, and quantity of memory DIMMs Mixing of ECC and non-ECC is not supported Intel Core i5/i7 processors support non-ECC memory only tegrated Intel HD Graphics on selected processors, uses main memory, orks along with discrete graphics to support multi-display, nables three display connectors (2 DisplayPort, 1 VGA) on rear ports letailed information please see Rear ports section) wo PCI Express x16 slots for discrete graphics adapters: One PCI Express 3.0 x16 slot (75W max, near CPU) One PCI Express 2.0 x16 slot (x4 electrical, 75W max) our SATA connectors via onboard drive controller in chipset, ATA 6.0Gb/s, RAID 0, 1, 5 support, upports Intel Smart Response Technology	
in processor (optional) Discrete graphics adapters Onboard drive controllers Storage Worden (de Controller) Worden (de Controller) Fot SA' sup	orks along with discrete graphics to support multi-display, nables three display connectors (2 DisplayPort, 1 VGA) on rear ports detailed information please see <i>Rear ports</i> section) wo PCI Express x16 slots for discrete graphics adapters: One PCI Express 3.0 x16 slot (75W max, near CPU) One PCI Express 2.0 x16 slot (x4 electrical, 75W max) our SATA connectors via onboard drive controller in chipset, ATA 6.0Gb/s, RAID 0, 1, 5 support, upports Intel Smart Response Technology	
Onboard drive controllers Discrete graphics of Controllers Controllers Up Storage Onboard drive SA sup	One PCI Express 3.0 x16 slot (75W max, near CPU) One PCI Express 2.0 x16 slot (x4 electrical, 75W max) our SATA connectors via onboard drive controller in chipset, ATA 6.0Gb/s, RAID 0, 1, 5 support, upports Intel Smart Response Technology	
SA sup Storage SA sup	ATA 6.0Gb/s, RAID 0, 1, 5 support, upports Intel Smart Response Technology	
Storage 6.0	n to three 3.5" SATA (SATA 6.0Gb/s, 7200rpm)/2.5" SATA (SATA	Bay 1 Standard, 5.25", 1.6" high, external, for optical
	o to one mSATA SSD drive (SATA 6.0Gb/s)	Bay 2 Standard, 5.25", 1.6" high, external, for optical or: optional, 3.5", 1" high, 3rd hard drive bay Bay 3 Optional, 3.5", 1" high, supports one of the following:
	upports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high, ATA interface	(1) for optional media card reader, external (2) for optional mSATA drive, internal Bay 4 Standard, 3.5", 1" high, internal, primary hard drive bay
Media reader (opt) Opt	ptional 29-in-1 media card reader on selected models	Bay 5 Standard, 3.5", 1" high, internal, 2nd hard drive bay
Front ports Two	wo USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)	
two	ne VGA and two DisplayPort for models with Intel HD Graphics, vo USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), aree analog audio ports (line-in, line-out, mic-in)	Notes: Standard optical and hard drive bays are included in models; optional hard drive bays are available on models with the
IEEE 1394 adptr Opt	ptional FireWire PCIe adapter on selected models, 394a-2000, 400Mbps, two 6-pin ports on rear	corresponding hard drives only
	igh Definition (HD) Audio, Realtek® ALC662 codec	
	ternal speaker for business audio	
	ne onboard gigabit ethernet, Intel I217LM	Funancian Clate
Security - S	Security chip: STMicro ST33ZP24AR28PVSP, TCG 1.2-compliant Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal) Power-on/Administrator password Boot sequence control Boot without keyboard, mouse	Expansion Slots 1: half-length, full-height, PCIe 3.0 x16 (75w max, near CPU) 2: half-length, full-height, PCIe 2.0 x1 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75W max) 4: half-length, full-height, PCI 2.3
• S • U • C	Serial port I/O control USB port disablement (front or all/individual) Chassis intrusion switch available on selected models	• Raven black color; metal case • 6.9"W x 17.0"D x 16.7"H (with handle)
	04-key keyboard (USB)/Optical Wheel Mouse (USB)	• 175mm W x 431mm D x 425mm H
Clir	80 watts with variable speed fan, autosensing, 85% PSU, limate Savers® Computing Bronze, 80 PLUS® Bronze qualified	 27.56 lb (12.5kg) max configuration 25-liter Removable handle on top front
	REENGUARD® certified/RoHS-compliant/EPEAT™ Gold rating/ NERGY STAR 5.2 qualified	Toolless disk and optical drive removal (standard bays)
	and the platest list of contifications release visit versus languages (2007)	
Limited warranty ¹ 3-y	or the latest list of certifications, please visit www.lenovo.com/support/ISV	Toolless adapter retention Illuminated front icons

ThinkStation E32 Tower (30A0) - October 2013

Туре-		Memory	Memory	Intel HD	Discrete graphics	Pre-			_	Chassis intrusion	Preloaded	Base warranty	Ann date
model*	Processor	(MHz/type)	DIMMs	Graphics	adapters"	RAID	Storage	Optical	reader	switch	OS	(-year)***	(mm/dd/yy)
30A0005R++	Core i5-4570 4C/3.2 GHz/ 6 MB/1600MHz	1600NHz Non-ECC	8GBx1	Intel HD 4600	1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x500GB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 Downgrade from Win8)	3(IWS)	10/15/13
30A0005Q++	Xeon E3-1245 v3 4C/3.4 GHz/ 8 MB/1600MHz	1600MHz ECC	4GBx1	Intel HD P4600	1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x500GB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 Downgrade from Win8)	3(IWS)	10/8/13
30A0005S++	Core i7-4770 4C/3.4 GHz/ 8 MB/1600MHz	1600NHz Non-ECC	4GBx1	Intel HD 4600	1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x500GB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 Downgrade from Win8)	3(IWS)	10/8/13
30A0005T++	Xeon E3-1245 v3 4C/3.4 GHz/ 8 MB/1600MHz	1600NHz Non-ECC	4GBx1	Intel HD P4600	1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x500GB 3.5" SATA	No	Media	Switch	Win7 Pro64 Downgrade from Win8)	3(IWS)	10/22/13

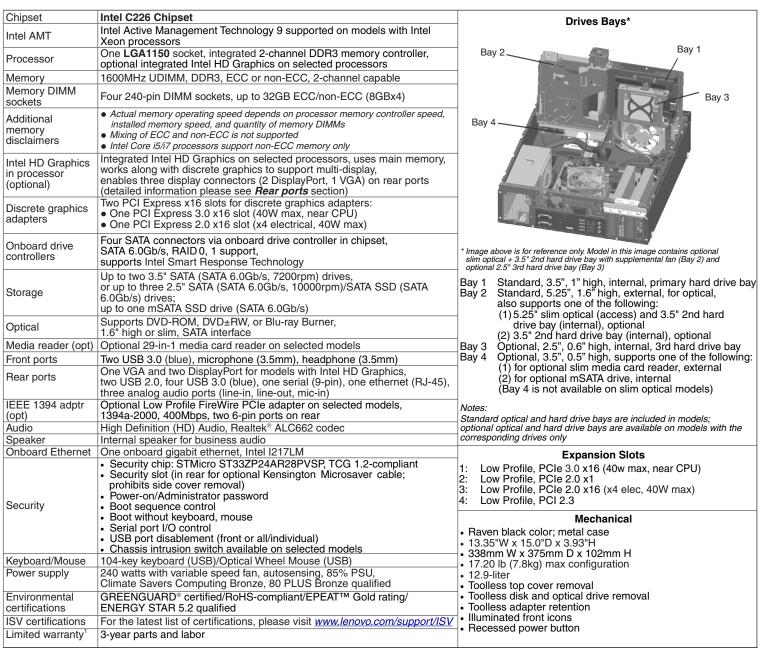
^{*}Model in italics shows that this is a Global Model *DL = Dual Link, SL = Single Link ***!WS= International Warranty Service® Country Code "++": The models are available for all WE countries, except UK, EAST and MEA

Chipset	Intel C226 Chipset	Drives Bays
Intel AMT	Intel Active Management Technology 9 supported on models with Intel Xeon processors	Drives Bays
Processor	One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors	
Memory	1600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable	
Memory DIMM sockets	Four 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4)	
Additional memory disclaimers	Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Mixing of ECC and non-ECC is not supported Intel Core i5/i7 processors support non-ECC memory only	2
Intel HD Graphics in processor (optional)	Integrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see <i>Rear ports</i> section)	0000
Discrete graphics adapters	Two PCI Express x16 slots for discrete graphics adapters: • One PCI Express 3.0 x16 slot (75W max, near CPU) • One PCI Express 2.0 x16 slot (x4 electrical, 75W max)	
Onboard drive controllers	Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1, 5 support, supports Intel Smart Response Technology	Bay 1 Standard, 5.25", 1.6" high, external, for optical
Storage	Up to three 3.5" SATA (SATA 6.0Gb/s, 7200rpm)/2.5" SATA (SATA 6.0Gb/s, 10000rpm)/SATA SSD (SATA 6.0Gb/s) drives; up to one mSATA SSD drive (SATA 6.0Gb/s)	Bay 2 Standard, 5.25", 1.6" high, external, for optical or: optional, 3.5", 1" high, 3rd hard drive bay Bay 3 Optional, 3.5", 1" high, supports one of the following:
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high, SATA interface	(1) for optional media card reader, external (2) for optional mSATA drive, internal Bay 4 Standard, 3.5", 1" high, internal, primary hard drive ba
Media reader (opt)	Optional 29-in-1 media card reader on selected models	Bay 5 Standard, 3.5", 1" high, internal, 2nd hard drive bay
Front ports Rear ports	Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm) One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	Notes: Standard optical and hard drive bays are included in models; optional hard drive bays are available on models with the
IEEE 1394 adptr	Optional FireWire PCIe adapter on selected models,	corresponding hard drives only
(opt)	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 I217LM	-
Security	Security chip: STMicro ST33ZP24AR28PVSP, TCG 1.2-compliant Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal) Power-on/Administrator password Boot sequence control Boot without keyboard, mouse	Expansion Slots 1: half-length, full-height, PCle 3.0 x16 (75w max, near CPU) 2: half-length, full-height, PCle 2.0 x1 3: half-length, full-height, PCle 2.0 x16 (x4 elec, 75W max) 4: half-length, full-height, PCl 2.3
	Serial port I/O control USB port disablement (front or all/individual) Chassis intrusion switch available on selected models	Mechanical Raven black color; metal case 6.9"W x 17.0"D x 16.7"H (with handle)
Keyboard/Mouse	104-key keyboard (USB)/Optical Wheel Mouse (USB)	• 175mm W x 431mm D x 425mm H
Power supply	280 watts with variable speed fan, autosensing, 85% PSU, Climate Savers® Computing Bronze, 80 PLUS® Bronze qualified	27.56 lb (12.5kg) max configuration 25-liter
Environmental certifications	GREENGUARD® certified/RoHS-compliant/EPEAT™ Gold rating/ ENERGY STAR 5.2 qualified	Removable handle on top front Toolless side cover removal Toolless disk and optical drive removal (standard bays)
ISV certifications	For the latest list of certifications, please visit www.lenovo.com/support/ISV	Toolless adapter retention Illuminated front icons
Limited warranty ¹	3-year parts and labor	Recessed power button

ThinkStation E32 SFF (30A3) - TopSeller (August 2013)

Type- model [*]	Processor	Memory (MHz/type)	Memory DIMMs	Intel HD Graphics	Discrete graphics adapters"	Pre- conf RAID	Storage	Optical	29-in-1 Media reader	1394	Chassis intrusion switch	l
30A30007++	Core i7-4770 (4C/3.4GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD 4600		No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A3000D++	Xeon E3-1230v3 (4C/3.3GHz/8MB/1600MHz)	1600MHz Non-ECC	2GBx2		1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A3000E++	Core i5-4570 (4C/3.2GHz/6MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD 4600		No	1x500GB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A3000F++	Xeon E3-1225v3 (4C/3.2GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD P4600		No	1x500GB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A3000G++	Xeon E3-1230v3 (4C/3.3GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1		1xQuadro 410 (512MB, 1xDVI-I DL, 1xDP, 37W)	No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A3000H++	Core i5-4670 (4C/3.4GHz/6MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD 4600		No	1x500GB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A3001F++	Core i5-4570 (4C/3.2GHz/6MB/1600MHz)		4GBx1	Intel HD 4600		No	1x500GB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)

* Model in italics shows that this is a Global Model ** DL = Dual Link, SL = Single Link Country Code "++": The models are available for all WE countries, except UK, EAST and MEA



ThinkStation E32 SFF (30A3) - TopSeller (August 2013) - II

Type- model [*]	Processor	Memory (MHz/type)	Memory DIMMs	Intel HD Graphics	Discrete graphics adapters"	Pre- conf RAID	Storage		29-in-1 Media reader		Chassis intrusion switch	Preloaded OS
30A3001H++	Xeon E3-1230v3 (4C/3.3GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1		1xQuadro 410 (512MB, 1xDVI-I DL, 1xDP, 37W)	No	1x1TB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)
30A3001K++	Xeon E3-1230v3 (4C/3.3GHz/8MB/1600MHz)	1600MHz Non-ECC	2GBx2		1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x1TB 3.5" SATA	DVD±RW	Media	No		Win7 Pro64 (Downgrade from Win8)
30A3001L++	Xeon E3-1225v3 (4C/3.2GHz/8MB/1600MHz)	1600MHz Non-ECC	4GBx1	Intel HD P4600		No	1x500GB 3.5" SATA	DVD±RW	Media	No	Switch	Win7 Pro64 (Downgrade from Win8)

^{*}Model in italics shows that this is a Global Model ** DL = Dual Link, SL = Single Link
Country Code "++": The models are available for all WE countries, except UK, EAST and MEA

Chipset Ir	ntel C226 Chipset	Drives Bays*
	ntel Active Management Technology 9 supported on models with Intel Keon processors	,
	One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors	Bay 2 Bay 1
Memory 1	600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable	F. 110
Memory DIMM sockets	Four 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4)	Bay 3
memory disclaimers	 Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Mixing of ECC and non-ECC is not supported Intel Core i5/i7 processors support non-ECC memory only 	Bay 4
in processor (optional)	ntegrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports detailed information please see <i>Rear ports</i> section)	
Discrete graphics	wo PCI Express x16 slots for discrete graphics adapters: One PCI Express 3.0 x16 slot (40W max, near CPU) One PCI Express 2.0 x16 slot (x4 electrical, 40W max)	
controllers S	Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1 support, supports Intel Smart Response Technology	* Image above is for reference only. Model in this image contains optional slim optical + 3.5" 2nd hard drive bay with supplemental fan (Bay 2) and optional 2.5" 3rd hard drive bay (Bay 3)
Storage 0 6	Jp to two 3.5" SATA (SATA 6.0Gb/s, 7200rpm) drives, or up to three 2.5" SATA (SATA 6.0Gb/s, 10000rpm)/SATA SSD (SATA 6.0Gb/s) drives; up to one mSATA SSD drive (SATA 6.0Gb/s)	Bay 1 Standard, 3.5", 1" high, internal, primary hard drive bay Bay 2 Standard, 5.25", 1.6" high, external, for optical, also supports one of the following: (1) 5.25" slim optical (access) and 3.5" 2nd hard
	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, .6" high or slim, SATA interface	drive bay (internal), optional (2) 3.5" 2nd hard drive bay (internal), optional
Media reader (opt) C	Optional 29-in-1 media card reader on selected models	Bay 3 Optional, 2.5", 0.6" high, internal, 3rd hard drive bay
	wo USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)	Bay 4 Optional, 3.5", 0.5" high, supports one of the following:
near ports tv	One VGA and two DisplayPort for models with Intel HD Graphics, wo USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), hree analog audio ports (line-in, line-out, mic-in)	(1) for optional slim media card reader, external (2) for optional mSATA drive, internal (Bay 4 is not available on slim optical models)
IEEE 1394 adptr (opt)	Optional Low Profile FireWire PCIe adapter on selected models, 394a-2000, 400Mbps, two 6-pin ports on rear	Notes: _ Standard optical and hard drive bays are included in models;
Audio H	High Definition (HD) Audio, Realtek® ALC662 codec	optional optical and hard drive bays are available on models with the
	nternal speaker for business audio	corresponding drives only
	One onboard gigabit ethernet, Intel I217LM	Expansion Slots
	Security chip: STMicro ST33ZP24AR28PVSP, TCG 1.2-compliant Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal) Power-on/Administrator password Boot sequence control	1: Low Profile, PCle 3.0 x16 (40w max, near CPU) 2: Low Profile, PCle 2.0 x1 3: Low Profile, PCle 2.0 x16 (x4 elec, 40W max) 4: Low Profile, PCl 2.3
•	Boot without keyboard, mouse Serial port I/O control USB port disablement (front or all/individual) Chassis intrusion switch available on selected models	Mechanical • Raven black color; metal case • 13.35"W x 15.0"D x 3.93"H • 338mm W x 375mm D x 102mm H
	04-key keyboard (USB)/Optical Wheel Mouse (USB)	17.20 lb (7.8kg) max configuration
	240 watts with variable speed fan, autosensing, 85% PSU, Climate Savers Computing Bronze, 80 PLUS Bronze qualified	12.9-liter Toolless top cover removal
	GREENGUARD® certified/RoHS-compliant/EPEAT™ Gold rating/ ENERGY STAR 5.2 qualified	Toolless disk and optical drive removal Toolless adapter retention
ISV certifications F	For the latest list of certifications, please visit www.lenovo.com/support/ISV	Illuminated front icons Recessed power button
Limited warranty ¹ 3	3-year parts and labor	Tiecessed power bullon

ThinkStation E32 SFF (30A3) - TopSeller (October 2013)

Type- model	Processor	Memory (MHz/type)	Memory DIMMs	Intel HD Graphics	Discrete graphics adapters"	Pre- conf RAID	Storage	Optical	-	Chassis intrusion switch	Preloaded OS	Base warranty (-year)***
30A3001M++	Core i3-4330 2C/3.5 GHz/ 4 MB/1600MHz	1600NHz Non-ECC	4GBx1	Intel HD 4600	No	No	1x500GB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 (Downgrade from Win8)	3
30A3002S++	Xeon E3-1225 v3 4C/3.2 GHz/ 8 MB/1600MHz	1600NHz Non-ECC	4GBx1	Intel HD P4600	No	No	1x500GB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 (Downgrade from Win8)	3
	Xeon E3-1230 v3 4C/3.3 GHz/ 8 MB/1600MHz	1600NHz Non-ECC	4GBx1	No	1xQuadro 410 512MB, 1xDVI-I DL, 1xDP, 37W)	No	1x1TB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 (Downgrade from Win8)	3

Model in italics shows that this is a Global Model *DL = Dual Link, SL = Single Link *IWS= International Warranty Service® Country Code *++*: The models are available for all WE countries, except UK, EAST and MEA

Chipset	Intel C226 Chipset	Drives Bays*
Intel AMT	Intel Active Management Technology 9 supported on models with Intel Xeon processors	, D
Processor	One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors	Bay 2
Memory	1600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable	T. II.
Memory DIMM sockets	Four 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4)	Bay 3
Additional memory disclaimers	 Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Mixing of ECC and non-ECC is not supported Intel Core i5/i7 processors support non-ECC memory only 	Bay 4
Intel HD Graphics in processor (optional)	Integrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see <i>Rear ports</i> section)	
Discrete graphics adapters	Two PCI Express x16 slots for discrete graphics adapters: • One PCI Express 3.0 x16 slot (40W max, near CPU) • One PCI Express 2.0 x16 slot (x4 electrical, 40W max)	
Onboard drive controllers	Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1 support, supports Intel Smart Response Technology	* Image above is for reference only. Model in this image contains optional slim optical + 3.5" 2nd hard drive bay with supplemental fan (Bay 2) and optional 2.5" 3rd hard drive bay (Bay 3)
Storage	Up to two 3.5" SATA (SATA 6.0Gb/s, 7200rpm) drives, or up to three 2.5" SATA (SATA 6.0Gb/s, 10000rpm)/SATA SSD (SATA 6.0Gb/s) drives; up to one mSATA SSD drive (SATA 6.0Gb/s)	Bay 1 Standard, 3.5", 1" high, internal, primary hard drive bay Bay 2 Standard, 5.25", 1.6" high, external, for optical, also supports one of the following: (1) 5.25" slim optical (access) and 3.5" 2nd hard
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high or slim, SATA interface	drive bay (internal), optional (2) 3.5" 2nd hard drive bay (internal), optional
Media reader (opt)	Optional 29-in-1 media card reader on selected models	Bay 3 Optional, 2.5", 0.6" high, internal, 3rd hard drive bay
Front ports	Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)	Bay 4 Optional, 3.5", 0.5" high, supports one of the following:
Rear ports	One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	(1) for optional slim media card reader, external (2) for optional mSATA drive, internal (Bay 4 is not available on slim optical models)
IEEE 1394 adptr (opt)	Optional Low Profile FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Notes: _ Standard optical and hard drive bays are included in models;
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	optional optical and hard drive bays are available on models with the
Speaker	Internal speaker for business audio	corresponding drives only
Onboard Ethernet	One onboard gigabit ethernet, Intel I217LM	Expansion Slots
Security	Security chip: STMicro ST33ZP24AR28PVSP, TCG 1.2-compliant Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal) Power-on/Administrator password Boot sequence control	1: Low Profile, PCIe 3.0 x16 (40w max, near CPU) 2: Low Profile, PCIe 2.0 x1 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40W max) 4: Low Profile, PCI 2.3
-	 Boot without keyboard, mouse Serial port I/O control USB port disablement (front or all/individual) Chassis intrusion switch available on selected models 	Mechanical • Raven black color; metal case • 13.35"W x 15.0"D x 3.93"H • 338mm W x 375mm D x 102mm H
Keyboard/Mouse	104-key keyboard (USB)/Optical Wheel Mouse (USB)	• 17.20 lb (7.8kg) max configuration
Power supply	240 watts with variable speed fan, autosensing, 85% PSU, Climate Savers Computing Bronze, 80 PLUS Bronze qualified	12.9-liter Toolless top cover removal
Environmental	GREENGUARD® certified/RoHS-compliant/EPEAT™ Gold rating/	Toolless disk and optical drive removal Toolless adoptor retention
certifications	ENERGY STAR 5.2 qualified	Toolless adapter retention Illuminated front icons
ISV certifications	For the latest list of certifications, please visit <u>www.lenovo.com/support/ISV</u> 3-year parts and labor	Recessed power button

ThinkStation E32 SFF (30A2) - August 2013

Type- model	Processor	Memory (MHz/type)	Memory DIMMs	Intel HD Graphics	Discrete graphics adapters"	Pre- conf RAID	Storage	Optical	29-in-1 Media reader		Chassis intrusion switch	Preloaded OS
	Xeon E3-1230v3 (4C/3.3GHz/8MB/1600MHz)	1600MHz ECC	4GBx1		1xQuadro K600 (1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x1TB 3.5" SATA	DVD±RW	Media	No		Win7 Pro64 (Downgrade from Win8)

[&]quot;Model in italics shows that this is a Global Model" ** DL = Dual Link, SL = Single Link
Country Code"++": The models are available for all WE countries, except UK, EAST and MEA

Chipset	Intel C226 Chipset	Drives Bays*
Intel AMT	Intel Active Management Technology 9 supported on models with Intel Xeon processors	D. 4
Processor	One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors	Bay 2 Bay 1
Memory	1600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable	7. 10
Memory DIMM sockets	Four 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4)	Bay 3
Additional memory disclaimers	Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Mixing of ECC and non-ECC is not supported Intel Core i5/i7 processors support non-ECC memory only	Bay 4
Intel HD Graphics in processor (optional)	Integrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see <i>Rear ports</i> section)	
Discrete graphics adapters	Two PCI Express x16 slots for discrete graphics adapters: • One PCI Express 3.0 x16 slot (40W max, near CPU) • One PCI Express 2.0 x16 slot (x4 electrical, 40W max)	
Onboard drive controllers	Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1 support, supports Intel Smart Response Technology	* Image above is for reference only. Model in this image contains optional slim optical + 3.5" 2nd hard drive bay with supplemental fan (Bay 2) and optional 2.5" 3rd hard drive bay (Bay 3)
Storage	Up to two 3.5" SATA (SATA 6.0Gb/s, 7200rpm) drives, or up to three 2.5" SATA (SATA 6.0Gb/s, 10000rpm)/SATA SSD (SATA 6.0Gb/s) drives; up to one mSATA SSD drive (SATA 6.0Gb/s)	Bay 1 Standard, 3.5", 1" high, internal, primary hard drive bay Standard, 5.25", 1.6" high, external, for optical, also supports one of the following: (1) 5.25" slim optical (access) and 3.5" 2nd hard
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high or slim, SATA interface	drive bay (internal), optional (2) 3.5" 2nd hard drive bay (internal), optional
Media reader (opt)	Optional 29-in-1 media card reader on selected models	Bay 3 Optional, 2.5", 0.6" high, internal, 3rd hard drive bay
Front ports	Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)	Bay 4 Optional, 3.5", 0.5" high, supports one of the following:
Rear ports	One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	(1) for optional slim media card reader, external (2) for optional mSATA drive, internal (Bay 4 is not available on slim optical models)
IEEE 1394 adptr (opt)	Optional Low Profile FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Notes: Standard optical and hard drive bays are included in models;
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	optional optical and hard drive bays are available on models with the
Speaker	Internal speaker for business audio	corresponding drives only
Onboard Ethernet	One onboard gigabit ethernet, Intel I217LM	Expansion Slots
Security	Security chip: STMicro ST33ZP24AR28PVSP, TCG 1.2-compliant Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal) Power-on/Administrator password Boot sequence control	1: Low Profile, PCIe 3.0 x16 (40w max, near CPU) 2: Low Profile, PCIe 2.0 x1 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40W max) 4: Low Profile, PCI 2.3
ŕ	 Boot without keyboard, mouse Serial port I/O control USB port disablement (front or all/individual) Chassis intrusion switch available on selected models 	Mechanical • Raven black color; metal case • 13.35"W x 15.0"D x 3.93"H • 338mm W x 375mm D x 102mm H
Keyboard/Mouse	104-key keyboard (USB)/Optical Wheel Mouse (USB)	• 17.20 lb (7.8kg) max configuration
Power supply	240 watts with variable speed fan, autosensing, 85% PSU, Climate Savers Computing Bronze, 80 PLUS Bronze qualified	12.9-liter Toolless top cover removal
Environmental certifications	GREENGUARD® certified/RoHS-compliant/EPEAT™ Gold rating/ ENERGY STAR 5.2 qualified	Toolless disk and optical drive removal Toolless adapter retention
ISV certifications	For the latest list of certifications, please visit www.lenovo.com/support/ISV	Illuminated front icons
Limited warranty ¹	3-year parts and labor	Recessed power button
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ThinkStation E32 SFF (30A2) - October 2013

Type- model	Processor	Memory (MHz/type)	Memory DIMMs	Intel HD Graphics	Discrete graphics adapters ^{**}	Pre- conf RAID	Storage			Chassis intrusion switch	os	Base warranty (-year)***	Ann date (mm/dd/yy)
30A2002P++	Core i7-4770 4C/3.4 GHz/ 8 MB/1600MHz	1600NHz Non-ECC	8GBx1	Intel HD 4600	1xQuadro K600 1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x180GB SATA SSD	DVD±RW	No	Switch	Win7 Pro64 (Downgrade from Win8)	3(IWS)	10/15/13
30A2002Q++	Core i5-4570 4C/3.2 GHz/ 6 MB/1600MHz	1600NHz Non-ECC	4GBx1	Intel HD 4600	1xQuadro K600 1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x1TB 3.5" SATA	DVD±RW	No	Switch	Win7 Pro64 (Downgrade from Win8)	3(IWS)	10/8/13
30A2001T++	Xeon E3-1230 v3 4C/3.3 GHz/ 8 MB/1600MHz	1600MHz ECC	4GBx1	No	1xQuadro K600 1GB, 1xDVI-I DL, 1xDP, 41W)	No	1x1TB 3.5" SATA	DVD±RW	Media	Switch	Win7 Pro64 (Downgrade from Win8)	3(IWS)	10/22/13

*Model in italics shows that this is a Global Model *DL = Dual Link, SL = Single Link ****IWS= International Warranty Service® Country Code "++": The models are available for all WE countries, except UK, EAST and MEA

Chipset	Intel C226 Chipset	Drives Bays*					
Intel AMT	Intel Active Management Technology 9 supported on models with Intel Xeon processors						
Processor	One LGA1150 socket, integrated 2-channel DDR3 memory controller, optional integrated Intel HD Graphics on selected processors	Bay 2					
Memory	1600MHz UDIMM, DDR3, ECC or non-ECC, 2-channel capable	M. II.					
Memory DIMM sockets	Four 240-pin DIMM sockets, up to 32GB ECC/non-ECC (8GBx4)	Bay 3					
Additional memory disclaimers	Actual memory operating speed depends on processor memory controller speed, installed memory speed, and quantity of memory DIMMs Mixing of ECC and non-ECC is not supported Intel Core i5/i7 processors support non-ECC memory only	Bay 4					
Intel HD Graphics in processor (optional)	Integrated Intel HD Graphics on selected processors, uses main memory, works along with discrete graphics to support multi-display, enables three display connectors (2 DisplayPort, 1 VGA) on rear ports (detailed information please see <i>Rear ports</i> section)						
Discrete graphics adapters	Two PCI Express x16 slots for discrete graphics adapters: • One PCI Express 3.0 x16 slot (40W max, near CPU) • One PCI Express 2.0 x16 slot (x4 electrical, 40W max)						
Onboard drive controllers	Four SATA connectors via onboard drive controller in chipset, SATA 6.0Gb/s, RAID 0, 1 support, supports Intel Smart Response Technology	* Image above is for reference only. Model in this image contains optional slim optical + 3.5" 2nd hard drive bay with supplemental fan (Bay 2) and optional 2.5" 3rd hard drive bay (Bay 3)					
Storage	Up to two 3.5" SATA (SATA 6.0Gb/s, 7200rpm) drives, or up to three 2.5" SATA (SATA 6.0Gb/s, 10000rpm)/SATA SSD (SATA 6.0Gb/s) drives; up to one mSATA SSD drive (SATA 6.0Gb/s)	Bay 1 Standard, 3.5", 1" high, internal, primary hard drive bay Standard, 5.25", 1.6" high, external, for optical, also supports one of the following: (1) 5.25" slim optical (access) and 3.5" 2nd hard					
Optical	Supports DVD-ROM, DVD±RW, or Blu-ray Burner, 1.6" high or slim, SATA interface	drive bay (internal), optional (2) 3.5" 2nd hard drive bay (internal), optional					
Media reader (opt)	Optional 29-in-1 media card reader on selected models	Bay 3 Optional, 2.5", 0.6" high, internal, 3rd hard drive bay					
Front ports	Two USB 3.0 (blue), microphone (3.5mm), headphone (3.5mm)	Bay 4 Optional, 3.5", 0.5" high, supports one of the following:					
Rear ports	One VGA and two DisplayPort for models with Intel HD Graphics, two USB 2.0, four USB 3.0 (blue), one serial (9-pin), one ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in)	(1) for optional slim media card reader, external (2) for optional mSATA drive, internal (Bay 4 is not available on slim optical models)					
IEEE 1394 adptr (opt)	Optional Low Profile FireWire PCIe adapter on selected models, 1394a-2000, 400Mbps, two 6-pin ports on rear	Notes: Standard optical and hard drive bays are included in models;					
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	optional optical and hard drive bays are available on models with the					
Speaker	Internal speaker for business audio	corresponding drives only					
Onboard Ethernet		Expansion Slots					
Security	Security chip: STMicro ST33ZP24AR28PVSP, TCG 1.2-compliant Security slot (in rear for optional Kensington Microsaver cable; prohibits side cover removal) Power-on/Administrator password Boot sequence control	1: Low Profile, PCIe 3.0 x16 (40w max, near CPU) 2: Low Profile, PCIe 2.0 x1 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40W max) 4: Low Profile, PCI 2.3					
•	Boot without keyboard, mouse Serial port I/O control USB port disablement (front or all/individual) Chassis intrusion switch available on selected models	Mechanical • Raven black color; metal case • 13.35"W x 15.0"D x 3.93"H • 338mm W x 375mm D x 102mm H					
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Power supply	240 watts with variable speed fan, autosensing, 85% PSU, Climate Savers Computing Bronze, 80 PLUS Bronze qualified	12.9-liter Toolless top cover removal					
Environmental certifications	GREENGUARD® certified/RoHS-compliant/EPEAT™ Gold rating/ ENERGY STAR 5.2 qualified	Toolless disk and optical drive removal Toolless adapter retention					
ISV certifications	For the latest list of certifications, please visit www.lenovo.com/support/ISV	Illuminated front icons Recessed power button					
		A Recessed nower number					