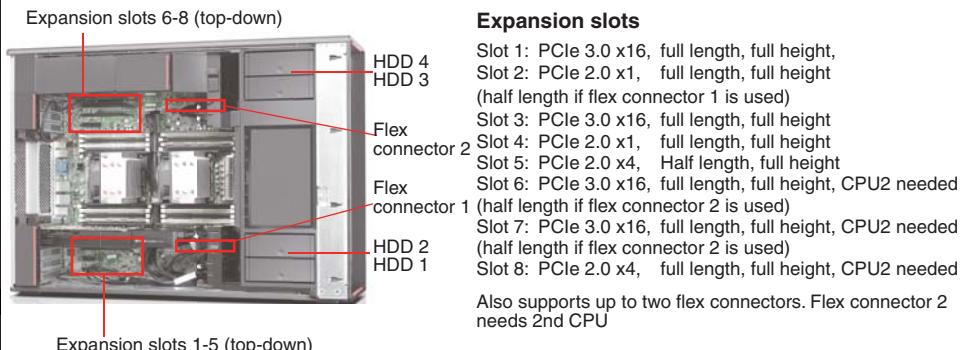


Components	Specification																																																																																																
Chipset	Intel C612 Platform Controller Hub (PCH)																																																																																																
System mgmt	Intel Active Management Technology 9																																																																																																
Processor	Up to two 160W Intel Xeon E5-2600 v4 family processors. Each processor supports up to 22 cores up to 2.2GHz, 16 cores up to 2.6GHz, 14 cores up to 2.6GHz, 12 cores up to 3GHz, 10 cores up to 2.4GHz, 8 cores up to 3.2GHz, 6 cores up to 3.4GHz, 4 cores up to 3.5GHz. Or up to two Intel Xeon E5-2620 v3 or E5-2609 v3 processors (not available in EMEA)																																																																																																
Coprocessor	Optional. Up to one Intel Xeon Phi Coprocessor 3120A, PCIe 2.0 x16 adapter, 57 cores, 1.1GHz, 28.5MB L2 cache, 6GB memory, 300W																																																																																																
Memory DIMM slots	16 DIMM sockets (8 DIMMs per processor), 8-channel capable (4-channel per processor). RDIMM or LRDIMM (cannot be intermixed), ECC, DDR4, 2400MHz																																																																																																
Memory capacity	896GB (LRDIMM, 14x64GB)/512GB (RDIMM, 16x32GB), 2nd CPU is needed																																																																																																
Graphics and GPU computing	<p>Four PCIe 3.0 x16 slots for graphics and GPU computing cards, two slots per processor</p> <table border="1"> <tr> <td>Installed CPU</td> <td>Maximum quantity of PCIe x16 adapters per system (by power)</td> </tr> <tr> <td>1</td> <td>1x300W+1x75W or 2x150W</td> </tr> <tr> <td>2</td> <td>2x300W+2x75W, or 1x300W+2x150W+1x75W, or 4x150W</td> </tr> </table> <p>Adapter Cores Memory Power SLI Connector***</p> <table border="1"> <tr> <td>NVS 310</td> <td>48</td> <td>1GB</td> <td>19.5W</td> <td></td> <td>2xDP</td> </tr> <tr> <td>NVS 315</td> <td>48</td> <td>1GB</td> <td>19.5W</td> <td>2xDVI-I SL/2xDP</td> <td></td> </tr> <tr> <td>NVS 510</td> <td>192</td> <td>2GB</td> <td>35W</td> <td></td> <td>4xmini DP</td> </tr> <tr> <td>NVS 810</td> <td>1024</td> <td>4GB</td> <td>68W</td> <td></td> <td>8xmini DP</td> </tr> <tr> <td>Quadro K420</td> <td>192</td> <td>2GB</td> <td>41W</td> <td></td> <td>DVI-I DL+DP</td> </tr> <tr> <td>Quadro K620</td> <td>384</td> <td>2GB</td> <td>45W</td> <td></td> <td>DVI-I DL+DP</td> </tr> <tr> <td>Quadro K1200</td> <td>512</td> <td>4GB</td> <td>45W</td> <td></td> <td>4xmini DP</td> </tr> <tr> <td>Quadro K2200</td> <td>640</td> <td>4GB</td> <td>68W</td> <td></td> <td>DVI-I DL+2xDP</td> </tr> <tr> <td>Quadro K4200</td> <td>1344</td> <td>4GB</td> <td>108W</td> <td></td> <td>DVI-I DL+2xDP</td> </tr> <tr> <td>Quadro K5200</td> <td>2304</td> <td>8GB</td> <td>150W</td> <td>SLI</td> <td>DVI-I DL+DVI-D DL+2xDP</td> </tr> <tr> <td>Quadro M2000</td> <td>768</td> <td>4GB</td> <td>75W</td> <td></td> <td>4xDP</td> </tr> <tr> <td>Quadro M4000</td> <td>1664</td> <td>8GB</td> <td>120W</td> <td></td> <td>4xDP</td> </tr> <tr> <td>Quadro M5000</td> <td>2048</td> <td>8GB</td> <td>150W</td> <td>SLI</td> <td>DVI-I DL+4xDP</td> </tr> <tr> <td>Quadro M6000</td> <td>3072</td> <td>24GB</td> <td>250W</td> <td>SLI</td> <td>DVI-I DL+4xDP</td> </tr> <tr> <td>Tesla K40</td> <td>2880</td> <td>12GB</td> <td>235W</td> <td></td> <td></td> </tr> </table>	Installed CPU	Maximum quantity of PCIe x16 adapters per system (by power)	1	1x300W+1x75W or 2x150W	2	2x300W+2x75W, or 1x300W+2x150W+1x75W, or 4x150W	NVS 310	48	1GB	19.5W		2xDP	NVS 315	48	1GB	19.5W	2xDVI-I SL/2xDP		NVS 510	192	2GB	35W		4xmini DP	NVS 810	1024	4GB	68W		8xmini DP	Quadro K420	192	2GB	41W		DVI-I DL+DP	Quadro K620	384	2GB	45W		DVI-I DL+DP	Quadro K1200	512	4GB	45W		4xmini DP	Quadro K2200	640	4GB	68W		DVI-I DL+2xDP	Quadro K4200	1344	4GB	108W		DVI-I DL+2xDP	Quadro K5200	2304	8GB	150W	SLI	DVI-I DL+DVI-D DL+2xDP	Quadro M2000	768	4GB	75W		4xDP	Quadro M4000	1664	8GB	120W		4xDP	Quadro M5000	2048	8GB	150W	SLI	DVI-I DL+4xDP	Quadro M6000	3072	24GB	250W	SLI	DVI-I DL+4xDP	Tesla K40	2880	12GB	235W		
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Disk drive controller	RAID 0, 1, 5, 10 with onboard SATA controller in chipset, 6Gb/s SATA. RAID 0, 1, 5, 10 with optional LSI RAID flex adapter, 12Gb/s SAS and SATA. RAID 0, 1, 5, 6, 10 with optional LSI 9364-8i PCIe adapter, 1GB memory, optional 1GB flash with super capacitor, 12Gb/s SAS and SATA																																																																																																
Drive Bays	Three external 5.25" bays, four internal 3.5" dual drives bays (see right)																																																																																																
Supporting storage	<table border="1"> <tr> <td>3.5" SATA HDD, 7.2K 6Gbs</td> <td>500GB/1TB/2TB/3TB/4TB/1TB hybrid/2TB hybrid</td> </tr> <tr> <td>2.5" SAS HDD, 15K 12Gbs</td> <td>300GB/600GB</td> </tr> <tr> <td>2.5" SAS SSD, 12Gbs</td> <td>200GB/400GB/800GB</td> </tr> <tr> <td>2.5" SATA SSD, 6Gbs</td> <td>180GB/240GB/256GB/480GB/512GB/1TB, optional OPAL</td> </tr> <tr> <td>PCIe SSD, 2.5"</td> <td>400GB</td> </tr> <tr> <td>PCIe SSD, M.2</td> <td>256 GB/512GB</td> </tr> <tr> <td>PCIe SSD adapter</td> <td>400GB</td> </tr> </table>	3.5" SATA HDD, 7.2K 6Gbs	500GB/1TB/2TB/3TB/4TB/1TB hybrid/2TB hybrid	2.5" SAS HDD, 15K 12Gbs	300GB/600GB	2.5" SAS SSD, 12Gbs	200GB/400GB/800GB	2.5" SATA SSD, 6Gbs	180GB/240GB/256GB/480GB/512GB/1TB, optional OPAL	PCIe SSD, 2.5"	400GB	PCIe SSD, M.2	256 GB/512GB	PCIe SSD adapter	400GB																																																																																		
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Flex connector	Two flex connectors (see right), one per processor. Supports one of the following: • Up to one LSI RAID flex adapter for SATA/SAS RAID. • Up to two Multi-I/O adapters for four PCIe SSD (two PCIe SSD per adapter). • Up to two M.2 flex adapters for four M.2 PCIe SSD (two M.2 PCIe SSD per adapter)																																																																																																
Network interfaces	Integrated two-port gigabit ethernet (Intel i218LM and i210AT), supports Wake-on-LAN. Optional discrete ethernet adapters are available																																																																																																
HD Audio	Realtek ALC662 codec																																																																																																
TPM	TCG 1.2-compliant																																																																																																
Power supply	One fixed 1300 watts, autosensing, 92% PSU, 80 PLUS Platinum qualified Note: PSU will automatically operate in 1120W (restricted mode) if the system line input is 100-110V. For other supported system line input voltages, the PSU will operate at the full 1300W.																																																																																																

Components	Specification												
Front ports	Four USB 3.0 (one Diagnostic, one Always On), one combo audio/microphone jack (3.5mm)												
Rear ports	Four USB 2.0, four USB 3.0 (blue), one serial (9-pin), two ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in), two PS/2												
Add-on ports	<p>Supports the following optional ports: Two IEEE 1394 (one on rear and one on front flex module) via PCIe adapter, up to one adapter per system.</p> <p>Two rear USB 3.0 per PCIe adapter, up to three adapters per system.</p> <p>One rear Thunderbolt via PCIe adapter.</p> <p>One front eSATA (on flex module), or one rear eSATA via cable (also needs one PCIe slot), up to one eSATA port per system.</p> <p>One internal USB 3.0 port via cable, cannot be intermixed with 29-in-1 reader</p>												
Media reader	9-in-1 USB 2.0 card reader. Optional 29-in-1 USB 3.0 card reader on flex module												
Mechanical	<ul style="list-style-type: none"> 55-liter: 200mm/7.87" W x 620mm/24.4" D x 446mm/17.56" H (with feet) Tool-less parts: all except CPU fansink 71.3 lb (32.3kg) max configuration 												
Environmental specification	<table border="1"> <tr> <td>Temperature - operating</td> <td>50 °F to 95 °F (10 °C to 35 °C)</td> </tr> <tr> <td>Temperature - non operating (no package)</td> <td>14 °F to 140 °F (-10 °C to 60 °C)</td> </tr> <tr> <td>Temperature - non operating (with package)</td> <td>-40 °F to 140 °F (-40 °C to 60 °C)</td> </tr> <tr> <td>Altitude - operating</td> <td>(Unpressurized): 0-10000ft (0-3048m)</td> </tr> <tr> <td>Humidity - operating</td> <td>10%~80%, non-condensing</td> </tr> <tr> <td>Humidity - storage (with package)</td> <td>10%~90%, non-condensing</td> </tr> </table> <p>RoHS-compliant, GREENGUARD on all models. EPEAT Gold rating, ENERGY STAR 6.1 qualified on selected models.</p>	Temperature - operating	50 °F to 95 °F (10 °C to 35 °C)	Temperature - non operating (no package)	14 °F to 140 °F (-10 °C to 60 °C)	Temperature - non operating (with package)	-40 °F to 140 °F (-40 °C to 60 °C)	Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)	Humidity - operating	10%~80%, non-condensing	Humidity - storage (with package)	10%~90%, non-condensing
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Humidity - operating	10%~80%, non-condensing												
Humidity - storage (with package)	10%~90%, non-condensing												
Base warranty	3-year limited onsite service with 9x5/NBD												

**Drive bays**

HDD 1-4: Standard 3.5" HDD bay, up to four 3.5" or 2.5" disk drives.
Each 3.5" bay supports 2.5" (9mm or less) drive plus 3.5" drive, or two 2.5" (15mm or less) drives. More than 4 drives requires LSI RAID flex adapter or 9364-8i adapter.

Flex bay: Three 5.25" flex bays, for HH optical drives.

Or up to one optional flex module (Flex module supports one or more of the following options: 9.5mm optical/29-in-1 USB 3.0 reader/front IEEE 1394/front eSATA).
Or up to two HDD bays for two drives, 3.5" or 2.5" each, SATA only.

For the list of ISV certifications, please visit www.thinkworkstations.com/isv-certifications/

For a list of all supported options, please visit

https://download.lenovo.com/pccbbs/options_isocm_june_2016.xlsx sheet

Model		30B90006++
Product		P910
Region		EMEA
Machine type		30B9
TopSeller		Yes
Processor	2xXeon E5-2630 v4 10C/2.2GHz/ 25MB/85W/DDR4-2133	
Memory	4x8GB RDIMM DDR4-2400 ECC	
Graphics	Open	
RAID controller	Onboard	
Max drives in 3.5" bays	4	
Storage	1x512GB SSD 2.5" SATA6Gbs	
Optical	DVD±RW	
Media reader	9-in-1	
Power supply	1300W 92%	
Add-on ports	No	
Keyboard/Mouse	USB full/USB opt	
Preloaded OS	Win10 Pro64	
Base warranty	3-year	
Global	No	
Ann date	04/16	