

# ThinkStation P320 Tiny 30C20023--

Region WE	Operating System Windows 10 Pro 64
Machine Type 30C2	Warranty 3-year
TopSeller TopSeller	Global No
Processor Core i7-7700 4C/3.6GHz/8MB/65W/DDR4-2400	End of Support Aug 4, 2022
Graphics Intel HD 630	Ann Date (mm/yy) 08/17
Memory 1x8GB SO-DIMM DDR4-2400 Non-ECC	
Disks None	
M.2 Drives 256GB M.2 PCIe NVMe Opal	
Optical None	
WLAN + Bluetooth Intel 8265 ac, 2x2, vPro + BT4.1	
Stand None	
Cable Lock Cable Lock	
Keyboard / Mouse USB / USB	



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Components	Specification																																				
Chipset	Intel Q270 Chipset																																				
Intel AMT	Intel Active Management Technology 11																																				
Processor	<p>One Intel "Kaby Lake" or "Skylake" processor as listed: "Kaby Lake"</p> <table border="1"> <tr><td>Core i7-7700T</td><td>4C/2.9GHz/8MB/35W/DDR4-2400/Intel HD 630</td></tr> <tr><td>Core i7-7700</td><td>4C/3.6GHz/8MB/65W/DDR4-2400/Intel HD 630</td></tr> <tr><td>Core i5-7600T</td><td>4C/2.8GHz/6MB/35W/DDR4-2400/Intel HD 630</td></tr> <tr><td>Core i5-7600</td><td>4C/3.5GHz/6MB/65W/DDR4-2400/Intel HD 630</td></tr> <tr><td>Core i5-7500T</td><td>4C/2.7GHz/6MB/35W/DDR4-2400/Intel HD 630</td></tr> <tr><td>Core i5-7500</td><td>4C/3.4GHz/6MB/65W/DDR4-2400/Intel HD 630</td></tr> <tr><td>Core i5-7400T</td><td>4C/2.4GHz/6MB/35W/DDR4-2400/Intel HD 630</td></tr> <tr><td>Core i5-7400</td><td>4C/3.0GHz/6MB/65W/DDR4-2400/Intel HD 630</td></tr> <tr><td>Core i3-7300T</td><td>2C/3.5GHz/4MB/35W/DDR4-2400/Intel HD 630</td></tr> <tr><td>Core i3-7300</td><td>2C/4.0GHz/4MB/51W/DDR4-2400/Intel HD 630</td></tr> <tr><td>Core i3-7100T</td><td>2C/3.4GHz/3MB/35W/DDR4-2400/Intel HD 630</td></tr> <tr><td>Core i3-7100</td><td>2C/3.9GHz/3MB/51W/DDR4-2400/Intel HD 630</td></tr> </table> <p>"Skylake"</p> <table border="1"> <tr><td>Core i7-6700T</td><td>4C/2.8GHz/8MB/35W/DDR4-2133/Intel HD 530</td></tr> <tr><td>Core i7-6700</td><td>4C/3.4GHz/8MB/65W/DDR4-2133/Intel HD 530</td></tr> <tr><td>Core i5-6500T</td><td>4C/2.5GHz/6MB/35W/DDR4-2133/Intel HD 530</td></tr> <tr><td>Core i5-6500</td><td>4C/3.2GHz/6MB/65W/DDR4-2133/Intel HD 530</td></tr> <tr><td>Core i3-6100T</td><td>2C/3.2GHz/3MB/35W/DDR4-2133/Intel HD 530</td></tr> <tr><td>Core i3-6100</td><td>2C/3.7GHz/3MB/51W/DDR4-2133/Intel HD 530</td></tr> </table> <p>"Kaby Lake" processors cannot support Windows 7</p>	Core i7-7700T	4C/2.9GHz/8MB/35W/DDR4-2400/Intel HD 630	Core i7-7700	4C/3.6GHz/8MB/65W/DDR4-2400/Intel HD 630	Core i5-7600T	4C/2.8GHz/6MB/35W/DDR4-2400/Intel HD 630	Core i5-7600	4C/3.5GHz/6MB/65W/DDR4-2400/Intel HD 630	Core i5-7500T	4C/2.7GHz/6MB/35W/DDR4-2400/Intel HD 630	Core i5-7500	4C/3.4GHz/6MB/65W/DDR4-2400/Intel HD 630	Core i5-7400T	4C/2.4GHz/6MB/35W/DDR4-2400/Intel HD 630	Core i5-7400	4C/3.0GHz/6MB/65W/DDR4-2400/Intel HD 630	Core i3-7300T	2C/3.5GHz/4MB/35W/DDR4-2400/Intel HD 630	Core i3-7300	2C/4.0GHz/4MB/51W/DDR4-2400/Intel HD 630	Core i3-7100T	2C/3.4GHz/3MB/35W/DDR4-2400/Intel HD 630	Core i3-7100	2C/3.9GHz/3MB/51W/DDR4-2400/Intel HD 630	Core i7-6700T	4C/2.8GHz/8MB/35W/DDR4-2133/Intel HD 530	Core i7-6700	4C/3.4GHz/8MB/65W/DDR4-2133/Intel HD 530	Core i5-6500T	4C/2.5GHz/6MB/35W/DDR4-2133/Intel HD 530	Core i5-6500	4C/3.2GHz/6MB/65W/DDR4-2133/Intel HD 530	Core i3-6100T	2C/3.2GHz/3MB/35W/DDR4-2133/Intel HD 530	Core i3-6100	2C/3.7GHz/3MB/51W/DDR4-2133/Intel HD 530
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Memory DIMM slots	2 DIMM slots, 2-channel (integrated memory controller in processor)																																				
Memory type/capacity	Up to 32GB (2 x 16GB), non-ECC, DDR4-2400. SO-DIMM. "Skylake" processor supports up to DDR4-2133																																				
Graphics	<p>Integrated Intel HD 630 in "Kaby Lake" processors; or Intel HD 530 in "Skylake" processors. Works along with optional discrete graphics to support multi-display, enables two display connectors (2 DP) on rear.</p> <p>Supports one optional NVIDIA Quadro P600 on 35W processor models</p> <table border="1"> <tr><td>Adapter</td><td>Cores</td><td>Memory</td><td>Power</td><td>Connectors</td></tr> <tr><td>Quadro P600</td><td>384</td><td>2GB</td><td>40W</td><td>4xmDP</td></tr> </table>	Adapter	Cores	Memory	Power	Connectors	Quadro P600	384	2GB	40W	4xmDP																										
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Max simultaneous displays	Up to 6 displays (2 x DP plus 4 x mDP) with integrated Intel HD (2 x DP) and NVIDIA Quadro P600 (4 x mDP)																																				
Storage	<p>Up to one 2.5" disk drive (HDD or SSD) plus one M.2 NVMe SSD, or up to two M.2 SSD on Intel HD only models.</p> <p>Or up to one M.2 SSD on Quadro P600 models. 2nd M.2 SSD on Quadro P600 models is special bid only. 2.5" drive cannot work with Quadro P600.</p> <p>All US models come with Quadro P600 and only support M.2 SSD</p>																																				
Supporting disk drives	<table border="1"> <tr><td>2.5" SATA6Gbs HDD</td><td>500GB 7.2K/1TB 5.4K</td></tr> <tr><td>2.5" SATA6Gbs SSD</td><td>128GB</td></tr> <tr><td>M.2 NVMe SSD</td><td>128GB/256GB Opal/512GB Opal/1TB Opal</td></tr> </table>	2.5" SATA6Gbs HDD	500GB 7.2K/1TB 5.4K	2.5" SATA6Gbs SSD	128GB	M.2 NVMe SSD	128GB/256GB Opal/512GB Opal/1TB Opal																														
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Optical drive	Optional one 9.0mm optical drive via optical drive kit, DVD-ROM or DVD±RW. VESA mount is needed, consumes one USB 3.0 port																																				
Media reader	None																																				
Power supply	135W AC/DC adapter, autosensing, 88% PSU																																				
Onboard Ethernet	One onboard gigabit ethernet. Intel I219LM. supports Wake-on-LAN																																				
WLAN/Bluetooth	<p>Supports the following 11ac wireless, M.2 card:</p> <ul style="list-style-type: none"> <li>Qualcomm Atheros QCA9377A, dual band, Wi-Fi + Bluetooth 4.2, 1x1 (BT4.0 for Egypt models)</li> <li>Qualcomm Atheros QCA6174A, dual band, Wi-Fi + Bluetooth 4.2, 2x2 (BT4.0 for Egypt and US models)</li> <li>Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0, 1x1</li> <li>Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2, 2x2</li> <li>Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2, 2x2, vPro</li> </ul>																																				
HD Audio	Realtek ALC294 codec																																				
TPM	Standard, TCG 2.0-compliant																																				
Front ports	Two USB 3.0 (one Always On), one microphone (3.5mm), one combo audio/microphone jack (3.5mm)																																				
Rear ports	2 DisplayPort (for Intel HD Graphics), four USB 3.0, one ethernet (RJ-45). Optional 4 mDP for Quadro P600																																				

Components	Specification
Mechanical	<ul style="list-style-type: none"> <li>Raven black color; metal case</li> <li>1.36" W x 7.05" D x 7.20" H</li> <li>34.5mm W x 179mm D x 182.9mm H</li> <li>2.9 lb (1.3kg) typical weight</li> <li>1-liter</li> </ul>
VESA mount	Optional Tiny VESA mount kit, supports VESA 75mm and 100mm
I/O box	Optional I/O expansion box, extends additional two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front. I/O box consumes two USB 3.0 ports. I/O box requires VESA mount
Floor stand	Optional system floor stand for vertical orientation
Environmental certifications	GREENGUARD certified/RoHS-compliant/EPEAT Gold rating/ENERGY STAR 6.1 qualified
Limited warranty	1 or 3-year limited onsite service with 9x5/NBD. Some parts are Customer Replaceable Units.
ISV certifications	Please visit <a href="http://www.thinkworkstations.com/isv-certifications/">www.thinkworkstations.com/isv-certifications/</a>

**Popular and system-unique options:**

Lenovo 4GB DDR4 2400MHz SoDIMM Memory	4X70M60573
Lenovo 8GB DDR4 2400MHz SoDIMM Memory	4X70M60574
Lenovo 16GB DDR4 2400MHz SoDIMM Memory	4X70N24889
Lenovo 256GB PCIe NVMe M.2 SSD	4XB0M52449
ThinkStation 256GB OPAL 2.5" Solid State Drive	4XB0N67290
256GB M.2 TLC PCIe OPAL 2.0 SSD	4XB0P01014
Lenovo 128GB M.2 PCIe NVMe SSD	4XB0N26469
Tiny IV DVD Burner Kit (VESA Mount needed)	4XA0N06917
Tiny IV DVD ROM Kit (VESA Mount needed)	4XA0N06918
Tiny 4 IO Expansion Box (VESA Mount needed)	4XH0N06919
Tiny Under Desk Mount	OB47097
Tiny IV Vertical Stand	4XF0N03160
Tiny VESA Mount II	4XF0N03161
Tiny Power Cage II	4XH0N23158
Tiny Sandwich Kit II	4XH0N04098
Tiny Clamp Bracket Mounting Kit II (VESA Mount needed)	4XF0N82412
Tiny IV 1L Dust Shield	4XH0N04885

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