

ThinkStation P340 SFF 30DK003XUS

Product

ThinkStation P340 SFF

Region

NA

Country/Region

USA

Machine Type

30DK

TopSeller

TopSeller

Processor

Intel Core i9-10900 (10C / 20T, 2.8 / 5.2GHz, 20MB)

Integrated Graphics

Intel UHD Graphics 630

Discrete Graphics

None

Chipset

Intel W480

HDD Controller

Onboard Intel RST SATA RAID

M.2 SSD RAID Controller

Onboard Intel RSTe PCIe

Memory

1x 16GB UDIMM DDR4-2933 non-ECC

Internal Disk Drive

None

M.2 SSD Drive

1x 512GB SSD M.2 PCIe NVMe Opal

Optane Memory

None

Optical

9.0mm DVD±RW

Media Reader

SD Reader

Onboard Ethernet

1x GbE RJ-45

Additional Ethernet

None

WLAN + Bluetooth

None

Optional Rear Ports

1x Video port, DP

Chassis Intrusion Switch

None

Cover Lock

None

Cable Lock

None

Keyboard

USB Traditional Keyboard, Black, English

Mouse

USB Calliope Mouse

Power Supply

380W 92%

System Management

Intel vPro with AMT 14

Operating System

Windows 10 Pro 64, English

Bundled Software

None

Base Warranty

3-year, Onsite

Bundled Service

None

EAN / UPC / JAN

195348323802

End of Support

2028-07-30

Announce Date

2020-09-02

Recommended Services**Best**

4Y Lenovo Protect (Premier Support + Keep Your Drive + Accidental Damage Protection) (5PS0N73191)

Better

4Y Lenovo Support (Premier Support + Keep Your Drive) (5PS0N73243)

Good

3Y Premier Support Upgrade from 3Y Onsite (5WS0U26646)

Notes:**California Electronic Waste Recycling Fee**

In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to: <https://www.calrecycle.ca.gov/Electronics/Consumer>

L WWW.LENOVO.COM

Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area.

Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. Lenovo provides this publication "as is" without warranty of any kind, either express or implied, including the implied warranties of merchantability or fitness for a particular purpose.



<https://psref.lenovo.com>

Visit psref website for the latest version of Product specifications Reference.

© Lenovo, 2020. All rights reserved.



ThinkStation P340 SFF Platform Specifications



Components	Specification																																																																																																																								
Form factor	8.2L																																																																																																																								
Dimensions	Height: 339.5 mm (13.4 in). Width: 92.5 mm (3.6 in). Depth: 309.7 mm (9.3 in)																																																																																																																								
Weight	Maximum configuration: 12.46 lb (5.65 kg)																																																																																																																								
Processor Sockets	1x FCLGA1200																																																																																																																								
Processor Support	Up to one Xeon, Core i9, i7, i5, or i3 processor																																																																																																																								
Processor	<table border="1"> <thead> <tr> <th>Processor Number</th> <th>Cores</th> <th>Threads</th> <th>Base Frequency</th> <th>Cache</th> <th>TDP</th> <th>Memory Types</th> <th>ECC</th> <th>Processor Graphics</th> <th>vPro</th> </tr> </thead> <tbody> <tr> <td>Xeon W-1290</td> <td>10</td> <td>20</td> <td>3.2GHz</td> <td>20MB</td> <td>80W</td> <td>DDR4-2933</td> <td>Yes</td> <td>UHD P630</td> <td>Yes</td> </tr> <tr> <td>Xeon W-1270</td> <td>8</td> <td>16</td> <td>3.4GHz</td> <td>16MB</td> <td>80W</td> <td>DDR4-2933</td> <td>Yes</td> <td>UHD P630</td> <td>Yes</td> </tr> <tr> <td>Xeon W-1250</td> <td>6</td> <td>12</td> <td>3.3GHz</td> <td>12MB</td> <td>80W</td> <td>DDR4-2666</td> <td>Yes</td> <td>UHD P630</td> <td>Yes</td> </tr> <tr> <td>Core i9-10900</td> <td>10</td> <td>20</td> <td>2.8GHz</td> <td>20MB</td> <td>65W</td> <td>DDR4-2933</td> <td>No</td> <td>UHD 630</td> <td>Yes</td> </tr> <tr> <td>Core i7-10700</td> <td>8</td> <td>16</td> <td>2.9GHz</td> <td>16MB</td> <td>65W</td> <td>DDR4-2933</td> <td>No</td> <td>UHD 630</td> <td>Yes</td> </tr> <tr> <td>Core i5-10600</td> <td>6</td> <td>12</td> <td>3.3GHz</td> <td>12MB</td> <td>65W</td> <td>DDR4-2666</td> <td>No</td> <td>UHD 630</td> <td>Yes</td> </tr> <tr> <td>Core i5-10500</td> <td>6</td> <td>12</td> <td>3.1GHz</td> <td>12MB</td> <td>65W</td> <td>DDR4-2666</td> <td>No</td> <td>UHD 630</td> <td>Yes</td> </tr> <tr> <td>Core i5-10400</td> <td>6</td> <td>12</td> <td>2.9GHz</td> <td>12MB</td> <td>65W</td> <td>DDR4-2666</td> <td>No</td> <td>UHD 630</td> <td>No</td> </tr> <tr> <td>Core i3-10320</td> <td>4</td> <td>8</td> <td>3.8GHz</td> <td>8MB</td> <td>65W</td> <td>DDR4-2666</td> <td>No</td> <td>UHD 630</td> <td>No</td> </tr> <tr> <td>Core i3-10300</td> <td>4</td> <td>8</td> <td>3.7GHz</td> <td>8MB</td> <td>65W</td> <td>DDR4-2666</td> <td>No</td> <td>UHD 630</td> <td>No</td> </tr> <tr> <td>Core i3-10100</td> <td>4</td> <td>8</td> <td>3.6GHz</td> <td>6MB</td> <td>65W</td> <td>DDR4-2666</td> <td>No</td> <td>UHD 630</td> <td>No</td> </tr> </tbody> </table>	Processor Number	Cores	Threads	Base Frequency	Cache	TDP	Memory Types	ECC	Processor Graphics	vPro	Xeon W-1290	10	20	3.2GHz	20MB	80W	DDR4-2933	Yes	UHD P630	Yes	Xeon W-1270	8	16	3.4GHz	16MB	80W	DDR4-2933	Yes	UHD P630	Yes	Xeon W-1250	6	12	3.3GHz	12MB	80W	DDR4-2666	Yes	UHD P630	Yes	Core i9-10900	10	20	2.8GHz	20MB	65W	DDR4-2933	No	UHD 630	Yes	Core i7-10700	8	16	2.9GHz	16MB	65W	DDR4-2933	No	UHD 630	Yes	Core i5-10600	6	12	3.3GHz	12MB	65W	DDR4-2666	No	UHD 630	Yes	Core i5-10500	6	12	3.1GHz	12MB	65W	DDR4-2666	No	UHD 630	Yes	Core i5-10400	6	12	2.9GHz	12MB	65W	DDR4-2666	No	UHD 630	No	Core i3-10320	4	8	3.8GHz	8MB	65W	DDR4-2666	No	UHD 630	No	Core i3-10300	4	8	3.7GHz	8MB	65W	DDR4-2666	No	UHD 630	No	Core i3-10100	4	8	3.6GHz	6MB	65W	DDR4-2666	No	UHD 630	No
	Processor Number	Cores	Threads	Base Frequency	Cache	TDP	Memory Types	ECC	Processor Graphics	vPro																																																																																																															
	Xeon W-1290	10	20	3.2GHz	20MB	80W	DDR4-2933	Yes	UHD P630	Yes																																																																																																															
	Xeon W-1270	8	16	3.4GHz	16MB	80W	DDR4-2933	Yes	UHD P630	Yes																																																																																																															
	Xeon W-1250	6	12	3.3GHz	12MB	80W	DDR4-2666	Yes	UHD P630	Yes																																																																																																															
	Core i9-10900	10	20	2.8GHz	20MB	65W	DDR4-2933	No	UHD 630	Yes																																																																																																															
	Core i7-10700	8	16	2.9GHz	16MB	65W	DDR4-2933	No	UHD 630	Yes																																																																																																															
	Core i5-10600	6	12	3.3GHz	12MB	65W	DDR4-2666	No	UHD 630	Yes																																																																																																															
	Core i5-10500	6	12	3.1GHz	12MB	65W	DDR4-2666	No	UHD 630	Yes																																																																																																															
	Core i5-10400	6	12	2.9GHz	12MB	65W	DDR4-2666	No	UHD 630	No																																																																																																															
Core i3-10320	4	8	3.8GHz	8MB	65W	DDR4-2666	No	UHD 630	No																																																																																																																
Core i3-10300	4	8	3.7GHz	8MB	65W	DDR4-2666	No	UHD 630	No																																																																																																																
Core i3-10100	4	8	3.6GHz	6MB	65W	DDR4-2666	No	UHD 630	No																																																																																																																
Chipset	Intel W480 Chipset																																																																																																																								
Memory Sockets	4 DIMM sockets with 2 channels																																																																																																																								
Memory Types	8GB/16GB/32GB DDR4-2933 UDIMM ECC, or 4GB/8GB/16GB/32GB DDR4-2933 UDIMM non-ECC																																																																																																																								
Memory Capacity	128GB																																																																																																																								
Memory Protection	ECC. ECC memory and ECC-enable CPU are needed																																																																																																																								
Expansion slots	Three PCIe 3.0 slots as following:																																																																																																																								
	Slot 1 PCIe 3.0 x16, low profile, links to CPU																																																																																																																								
	Slot 2 PCIe 3.0 x1, low profile, links to PCH																																																																																																																								
Slot 3 PCIe 3.0 x16 (negotiable link width x4), low profile, links to PCH																																																																																																																									
Processor graphics	Integrated Intel UHD Graphics P630 in Xeon processors, or Intel UHD Graphics 630 in Core processors. Works along with discrete graphics to support multi-display, enables three rear display connectors (2 DP standard, 1 video port optional (Video port can be DP, HDMI, or USB-C))																																																																																																																								
Discrete Graphics Offering	<table border="1"> <thead> <tr> <th>Graphics</th> <th>Memory</th> <th>Power</th> <th>Connector</th> <th>Max Qty</th> </tr> </thead> <tbody> <tr> <td>Quadro P400</td> <td>2GB GDDR5</td> <td>30W</td> <td>3x miniDP</td> <td>2</td> </tr> <tr> <td>Quadro P620</td> <td>2GB GDDR5</td> <td>40W</td> <td>4x miniDP</td> <td>2</td> </tr> <tr> <td>Quadro P1000</td> <td>4GB GDDR5</td> <td>50W</td> <td>4x miniDP</td> <td>2</td> </tr> </tbody> </table>	Graphics	Memory	Power	Connector	Max Qty	Quadro P400	2GB GDDR5	30W	3x miniDP	2	Quadro P620	2GB GDDR5	40W	4x miniDP	2	Quadro P1000	4GB GDDR5	50W	4x miniDP	2																																																																																																				
	Graphics	Memory	Power	Connector	Max Qty																																																																																																																				
	Quadro P400	2GB GDDR5	30W	3x miniDP	2																																																																																																																				
Quadro P620	2GB GDDR5	40W	4x miniDP	2																																																																																																																					
Quadro P1000	4GB GDDR5	50W	4x miniDP	2																																																																																																																					
Storage Controller	<table border="1"> <thead> <tr> <th>Storage Controller</th> <th>Type</th> <th>Interface</th> <th>Disk Type</th> <th>RAID</th> </tr> </thead> <tbody> <tr> <td>Onboard Intel RST SATA RAID</td> <td>Std</td> <td>SATA 6Gb/s</td> <td>HDD or SSD</td> <td>0/1</td> </tr> <tr> <td>Onboard Intel RST PCIe RAID</td> <td>Std</td> <td>PCIe NVMe</td> <td>M.2 PCIe SSD</td> <td>0/1</td> </tr> </tbody> </table>	Storage Controller	Type	Interface	Disk Type	RAID	Onboard Intel RST SATA RAID	Std	SATA 6Gb/s	HDD or SSD	0/1	Onboard Intel RST PCIe RAID	Std	PCIe NVMe	M.2 PCIe SSD	0/1																																																																																																									
Storage Controller	Type	Interface	Disk Type	RAID																																																																																																																					
Onboard Intel RST SATA RAID	Std	SATA 6Gb/s	HDD or SSD	0/1																																																																																																																					
Onboard Intel RST PCIe RAID	Std	PCIe NVMe	M.2 PCIe SSD	0/1																																																																																																																					
Storage Support	<table border="1"> <thead> <tr> <th>Disk Type</th> <th>Interface</th> <th>RPM</th> <th>Offering</th> <th>Max Qty</th> </tr> </thead> <tbody> <tr> <td>3.5" SATA HDD</td> <td>SATA 6Gb/s</td> <td>7.2K</td> <td>1TB/2TB/4TB/6TB</td> <td>1</td> </tr> <tr> <td>2.5" SATA HDD</td> <td>SATA 6Gb/s</td> <td>7.2K</td> <td>1TB FIPS</td> <td>2</td> </tr> <tr> <td>2.5" SATA SSD</td> <td>SATA 6Gb/s</td> <td>-</td> <td>512GB/1TB</td> <td>2</td> </tr> <tr> <td>M.2 PCIe SSD</td> <td>PCIe NVMe</td> <td>-</td> <td>256GB/512GB/1TB/2TB</td> <td>4</td> </tr> <tr> <td>Optane Memory</td> <td>PCIe NVMe</td> <td>-</td> <td>16GB</td> <td>1</td> </tr> </tbody> </table>	Disk Type	Interface	RPM	Offering	Max Qty	3.5" SATA HDD	SATA 6Gb/s	7.2K	1TB/2TB/4TB/6TB	1	2.5" SATA HDD	SATA 6Gb/s	7.2K	1TB FIPS	2	2.5" SATA SSD	SATA 6Gb/s	-	512GB/1TB	2	M.2 PCIe SSD	PCIe NVMe	-	256GB/512GB/1TB/2TB	4	Optane Memory	PCIe NVMe	-	16GB	1																																																																																										
	Disk Type	Interface	RPM	Offering	Max Qty																																																																																																																				
	3.5" SATA HDD	SATA 6Gb/s	7.2K	1TB/2TB/4TB/6TB	1																																																																																																																				
	2.5" SATA HDD	SATA 6Gb/s	7.2K	1TB FIPS	2																																																																																																																				
	2.5" SATA SSD	SATA 6Gb/s	-	512GB/1TB	2																																																																																																																				
M.2 PCIe SSD	PCIe NVMe	-	256GB/512GB/1TB/2TB	4																																																																																																																					
Optane Memory	PCIe NVMe	-	16GB	1																																																																																																																					
Storage Bays	Bay 1 First 3.5" disk bay																																																																																																																								
	Bay 2 First 2.5" SATA bay																																																																																																																								
	Bay 3 9mm Slim ODD bay																																																																																																																								
	Bay 4 Media reader																																																																																																																								
	M.2 4x M.2 SSD (2 onboard. 2 via PCIe to M.2 adapter)																																																																																																																								

Components	Specification
Media reader	Optional SD reader on most models
Network interfaces	One onboard GbE port via integrated gigabit ethernet Intel i219LM, supports Wake-on-LAN. Optional PCIe ethernet adapters are available
WLAN + Bluetooth	Optional Intel Wi-Fi 6 AX201, 2x2, 2.4GHz/5GHz (160MHz channels), Wi-Fi 6, Bluetooth 5
Security features	Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant. Optional chassis intrusion switch, E-lock, cable lock, Kensington lock, and pad lock
Intel vPro	Supports Intel vPro on models with vPro-enable processor. vPro also requires AX201 if Wi-Fi function is needed
Intel AMT	Intel Active Management Technology 14 on vPro models, Intel Standard Manageability on other models
Base warranty	Most models comes with 3-year limited onsite service with 9x5/NBD. Other models may have 1 or 2-year limited onsite service
HD Audio	Intel HD Audio interface with Realtek ALC623 Codec
Front ports	2x USB-A 3.2 Gen 1, 2x USB-A 3.2 Gen 2, 1x USB-C 3.2 Gen 1, 1x Mic-in, 1x Combo jack
Rear ports	2x USB-A 3.2 Gen 1, 2x USB-A 2.0, 1x RJ-45, 1x COM, 2x DP, 1x Audio line-out
Optional rear ports	Supports the following via cable: 1x COM, 1x Parallel, 2x PS/2, 1x video (DP, HDMI, or USB-C), 2x USB 2.0, Supports the following via PCIe adapter: 4x COM*, 1x USB-C 3.2 Gen 2, 2x USB-A 3.2 Gen 1*, 1x Thunderbolt Notes: 4x COM and 2x USB-A 3.2 Gen 1 are special bids only.
Temperature	Operating: 50 °F to 95 °F (10 °C to 35 °C) Non operating (no package): 14 °F to 140 °F (-10 °C to 60 °C) Non operating (with package): -40 °F to 140 °F (-40 °C to 60 °C)
Altitude	Operating: -15.2 m (-50 ft) to 3048 m (10 000 ft). Storage: -15.2 m (-50 ft) to 10, 668 m (35 000 ft)
Humidity	Operating: 30%~90%, non-condensing Storage (with package): 20%~90%, non-condensing
Environmental certification	RoHS-compliant, EPEAT Silver rating, and ENERGY STAR 8 qualified
Power supply	Supports one of the following: • 310W, 92% PSU, 100V - 240V, 80 PLUS Platinum qualified • 380W, 92% PSU, 100V - 240V, 80 PLUS Platinum qualified
ISV certifications	Please visit www.thinkworkstations.com/isv-certifications/

Note:
1. Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.
2. Any questions or advice on ThinkStation PSREF, please contact [Lenovo workstation PSREF developer](mailto:Lenovo_workstation_PSREF_developer)

ThinkStation P340 SFF

