ThinkStation P330 Tower Gen 2 30CY005MPG

Product
ThinkStation P330 Tower Gen 2

Region
WE

Country/Region
Portugal

Machine Type
30CY

TopSeller
TopSeller

Processor
Intel Core i7-9700 (8C / 8T, 3.0 / 4.7GHz, 12MB)

Integrated Graphics
Intel UHD Graphics 630

Discrete Graphics
NVIDIA Quadro P2200 5GB

Chipset
Intel C246

HDD Controller
Onboard Intel RSTe SATA RAID

M.2 SSD RAID Controller
Onboard Intel RSTe PCIe

Memory
2x 8GB UDIMM DDR4-2666 Non-ECC

Internal Disk Drive
1x 512GB SSD 2.5" SATA6Gb/s Opal

M.2 SSD Drive
None

Optane Memory
None

Optical
1x 9.0mm DVD±RW

Card Reader
SD Reader

Onboard Ethernet
1x GbE RJ-45

Optional Ethernet
None

WLAN + Bluetooth
None

Optional Front Ports
None

Optional Rear Ports
None

Chassis Intrusion Switch
Chassis Intrusion Switch

Cover Lock
E-Lock

Cable Lock
Cable Lock

Dust Filter
None

Keyboard
USB Traditional Keyboard, Black, Portuguese

Mouse
USB Calliope Mouse

Power Supply
250W Platinum Fixed

System Management
Intel vPro with AMT 12, DASH

Operating System
Windows 10 Pro 64, Portuguese / English

Bundled Software
None

Base Warranty
3-year, Onsite

Included Upgrade
None

EAN / UPC / JAN
0193638985341

End of Support
2026-08-24

Announce Date
2019-08-06

Recommended Services

Best
5Y Premier Support Upgrade from 3Y Onsite (5WS0T36135)

Better
4Y Premier Support Upgrade from 3Y Onsite (5WS0T36136)

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

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PERFORMANCE

Processor

Processor Family

Up to one Intel® Xeon®, Core™ i9, i7, i5, or i3 processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i3-8100	4	4	3.6GHz	-	6MB	DDR4-2400	Intel UHD Graphics 630
Core i3-8300	4	4	3.7GHz	-	8MB	DDR4-2400	Intel UHD Graphics 630
Core i3-9100	4	4	3.6GHz	4.2GHz	6MB	DDR4-2400	Intel UHD Graphics 630
Core i3-9300	4	4	3.7GHz	4.3GHz	8MB	DDR4-2400	Intel UHD Graphics 630
Core i5-8500	6	6	3.0GHz	4.1GHz	9MB	DDR4-2666	Intel UHD Graphics 630
Core i5-9400	6	6	2.9GHz	4.1GHz	9MB	DDR4-2666	Intel UHD Graphics 630
Core i5-9400F	6	6	2.9GHz	4.1GHz	9MB	DDR4-2666	-
Core i5-9500	6	6	3.0GHz	4.4GHz	9MB	DDR4-2666	Intel UHD Graphics 630
Core i5-9600	6	6	3.1GHz	4.6GHz	9MB	DDR4-2666	Intel UHD Graphics 630
Core i5-9600K	6	6	3.7GHz	4.6GHz	9MB	DDR4-2666	Intel UHD Graphics 630
Core i7-8700	6	12	3.2GHz	4.6GHz	12MB	DDR4-2666	Intel UHD Graphics 630
Core i7-8700K	6	12	3.7GHz	4.7GHz	12MB	DDR4-2666	Intel UHD Graphics 630
Core i7-9700	8	8	3.0GHz	4.7GHz	12MB	DDR4-2666	Intel UHD Graphics 630
Core i7-9700K	8	8	3.6GHz	4.9GHz	12MB	DDR4-2666	Intel UHD Graphics 630
Core i9-9900	8	16	3.1GHz	5.0GHz	16MB	DDR4-2666	Intel UHD Graphics 630
Core i9-9900K	8	16	3.6GHz	5.0GHz	16MB	DDR4-2666	Intel UHD Graphics 630
Xeon E-2174G	4	8	3.8GHz	4.7GHz	8MB	DDR4-2666	Intel UHD Graphics P630
Xeon E-2186G	6	12	3.8GHz	4.7GHz	12MB	DDR4-2666	Intel UHD Graphics P630
Xeon E-2224	4	4	3.4GHz	4.6GHz	8MB	DDR4-2666	-
Xeon E-2224G	4	4	3.5GHz	4.7GHz	8MB	DDR4-2666	Intel UHD Graphics P630
Xeon E-2226G	6	6	3.4GHz	4.7GHz	12MB	DDR4-2666	Intel UHD Graphics P630
Xeon E-2234	4	8	3.6GHz	4.8GHz	8MB	DDR4-2666	-
Xeon E-2236	6	12	3.4GHz	4.8GHz	12MB	DDR4-2666	-
Xeon E-2244G	4	8	3.8GHz	4.8GHz	8MB	DDR4-2666	Intel UHD Graphics P630
Xeon E-2246G	6	12	3.6GHz	4.8GHz	12MB	DDR4-2666	Intel UHD Graphics P630
Xeon E-2274G	4	8	4.0GHz	4.9GHz	8MB	DDR4-2666	Intel UHD Graphics P630
Xeon E-2276G	6	12	3.8GHz	4.9GHz	12MB	DDR4-2666	Intel UHD Graphics P630
Xeon E-2278G	8	16	3.4GHz	5.0GHz	16MB	DDR4-2666	Intel UHD Graphics P630
Xeon E-2286G	6	12	4.0GHz	4.9GHz	12MB	DDR4-2666	Intel UHD Graphics P630

Processor Sockets

1x FCLGA1151

Operating System

Operating System

- Windows® 10 Pro 64
- Windows 10 Pro 64 for Workstations
- Ubuntu Linux LTS
- No operating system

Graphics

Integrated Graphics

- Intel UHD Graphics 630
- Intel UHD Graphics P630
- None

Discrete Graphics Support

Supports up to one NVIDIA® Quadro® RTX 4000, or two NVIDIA Quadro P2200, 400W PSU is needed

Discrete Graphics Offering

Graphics	Memory	Power	Connector	SLI / NVlink
Quadro P2000	5GB GDDR5	75W	4x DP	None
Quadro P400	2GB GDDR5	30W	3x miniDP	None
Quadro P620	2GB GDDR5	40W	4x miniDP	None
Quadro P1000	4GB GDDR5	50W	4x miniDP	None
Quadro P2200	5GB GDDR5	75W	4x DP	None
Quadro P4000	8GB GDDR5	120W	4x DP	None
Quadro P5000	16GB GDDR5X	180W	1x DVI-D DL, 4x DP	None
Quadro RTX 4000	8GB GDDR6	160W	3x DP, 1x VirtualLink	None

Monitor Support

Monitor Support

Supports multiple displays via onboard video ports and discrete graphics, the number of maximum monitors supported depends on the graphic card in use

Chipset

Chipset

Intel C246 chipset

Memory

Max Memory[1]

Up to 64GB

Memory Type

- DDR4-2666 UDIMM ECC
- DDR4-2666 UDIMM non-ECC

Memory Slots

4 DIMM sockets with 2 channels

Memory Protection

ECC on models with ECC DIMMs and Xeon processor

Notes:

1. The max memory is based on the test results with current Lenovo® memory offerings. The system may support more memory as the technology develops.

Storage

Storage Support

Up to 3x 3.5" SATA HDD / 4x 2.5" SATA HDD / SSD + 3x M.2 PCIe® SSD
• 3.5" HDD up to 4TB each
• 2.5" SATA HDD up to 500GB each
• 2.5" SATA SSD up to 1TB each
• M.2 SSD up to 1TB each
• Optional Intel Optane™ Memory

Storage Type

Disk Type	Interface	RPM	Offering
Optane Memory	PCIe NVMe®	-	32GB

2.5" SATA HDD	SATA 6Gb/s	7.2K	500GB FIPS
2.5" SATA SSD	SATA 6Gb/s	-	256GB / 512GB / 1TB
3.5" SATA HDD	SATA 6Gb/s	7.2K	1TB / 2TB / 4TB
M.2 PCIe SSD	PCIe 4.0 NVMe	-	256GB / 512GB / 1TB / 2TB

Storage Controllers

Storage Controller	Type	Interface	RAID	Cache
Onboard Intel RST SATA RAID	Standard	SATA 6.0Gb/s	0/1/10/5	None
Onboard Intel RST PCIe RAID	Standard	PCIe NVMe	0/1	None

Removable Storage

Optical Support

Optional one 9.0mm optical drive, DVD-ROM, DVD±RW, and Blu-ray

Card Reader

- SD card reader
- No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC233 codec

Power Supply

Power Supply

Power	Type	Efficiency	Key Features
250W	Fixed	92%	100V - 240V, Climate Savers Computing Platinum and 80 PLUS Platinum qualified
400W	Fixed	92%	100V - 240V, Climate Savers Computing Platinum and 80 PLUS Platinum qualified

DESIGN

Mechanical

Form Factor

Tower (18L)

Dimensions (WxDxH)

Models	Dimensions
All models	165 x 328 x 376 mm (6.5 x 12.9 x 14.8 inches)

Weight

Models	Weight
All models	9.8 kg (21.61 lbs)

Bays

- 1x 3.5" disk bay (standard)
- 1x 2.5" disk bay (optional, comes with disk or Storage Bay Upgrade Kit)
- 2x 3.5" disk bay (optional):
  1 bay come with disk or Storage Bay Upgrade Kit
  1 bay via Flex bay

Flex Bays

1x Flex bay, supports one of the following:
• Flex module for optional front eSATA/Thunderbolt™/IEEE1394
• 3rd disk bay, 3.5" or 2.5", removable, via Front Access Storage Enclosure, using SATA 4 connector as eSATA mode
• 3rd disk bay, 3.5" or 2.5", via 5.25" to 3.5" HDD Kit

M.2 Slots

Up to 3x M.2 SSD:

• 1 via onboard slot
• 2 via Single M.2 to PCIe adapter

Expansion Slots

- One PCIe 3.0 x1
- Two PCIe 3.0 x16

Expansion Slots Offering

Slot 1: PCIe 3.0 x16, full height, half length, links to CPU
Slot 2: PCIe 3.0 x1, full height, full length, links to PCH
Slot 3: PCIe 3.0 x16 (negotiable link width x4), full height, half length, links to PCH

CONNECTIVITY

Network

Onboard Ethernet

Gigabit Ethernet, Intel Ethernet Connection I219-LM, 1x RJ45, supports Wake-on-LAN

Optional Ethernet

Additional Ethernet options via PCIe adapter

WLAN + Bluetooth®

- Intel Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth 5.1, M.2 card
- No WLAN and Bluetooth

Ports[1]

Front Ports

- 2x USB 3.1 Gen 1
- 2x USB 3.1 Gen 2
- 1x USB-C 3.1 Gen 1
- 1x headphone / microphone combo jack (3.5mm)
- 1x microphone (3.5mm)

Optional Front Ports

- 1x eSATA (with flex module)
- 2x Thunderbolt (with flex module, USB-C form, one supports video-out)
- 1x IEEE1394 (with flex module)

Rear Ports[3]

- 2x USB 2.0
- 2x USB 3.1 Gen 1
- 2x DisplayPort™
- 1x serial (9-pin)
- 1x Ethernet (RJ-45)
- 1x line-out (3.5mm)

Optional Rear Ports

- 1x video (DisplayPort or HDMI®)
- 2x USB 2.0
- 2x USB 3.1 Gen 1 (via 2-port USB expansion card)
- 2x USB-C 3.1 Gen 1 (via 2-port USB-C expansion card)
- 1x Thunderbolt
- 1x serial
- 4x serial (via 4-port serial expansion card, PCIe x1)
- 1x parallel
- 2x PS/2

Notes:

1. The transfer speed of following ports will vary and, depending on many factors, such as the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment, will be slower than theoretical speed.
   USB 2.0: 480 Mbit/s;
   USB 3.2 Gen 1 (SuperSpeed USB 5Gbps, formerly USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s;
   USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formerly USB 3.1 Gen 2): 10 Gbit/s;
   USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;
   Thunderbolt 3: 40 Gbit/s;
   FireWire 400: 400 Mbit/s;

FireWire 800: 800 Mbit/s
2. For video ports on discrete graphics, please see graphics section
3. DP needs Core, Pentium®, or -G suffix Xeon processor

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Physical Locks

- (Optional) Cable lock
- (Optional) E-lock
- Kensington® Security Slot
- Padlock Loop

Chassis Intrusion Switch

- Chassis intrusion switch
- No chassis intrusion switch

BIOS Security

- Administrator password
- Power-on password

MANAGEABILITY

System Management

System Management

- Intel vPro with Intel AMT 12 (vPro-enable processor and WiFi needed)
- Standard Manageability

SERVICE

Warranty

Base Warranty[1]

- 1-year limited onsite service
- 3-year limited onsite service
- No base warranty

Notes:

1. More information of warranty policy, please access https://pcsupport.lenovo.com/warranty

ENVIRONMENTAL

Operating Environment

Temperature

Operating: 10°C (50°F) to 35°C (95°F)

Altitude

Operating: -15.2 m (-50 ft) to 3048 m (10,000 ft)

Humidity

Operating: 20% to 80%

CERTIFICATIONS

Green Certifications

Green Certifications

- EPEAT™ Silver
- ENERGY STAR® 8.0
- GREENGUARD®
- RoHS compliant

ISV Certifications

ISV Certifications

Please visit www.thinkworkstations.com/isv-certifications/

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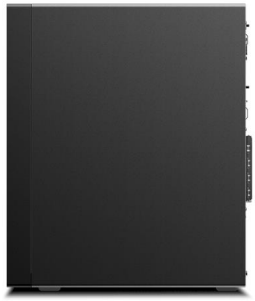

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