

Informacije o proizvodu (EN)

LENOVO računar ThinkCentre neo 50s (11SX002TYA)

Lenovo

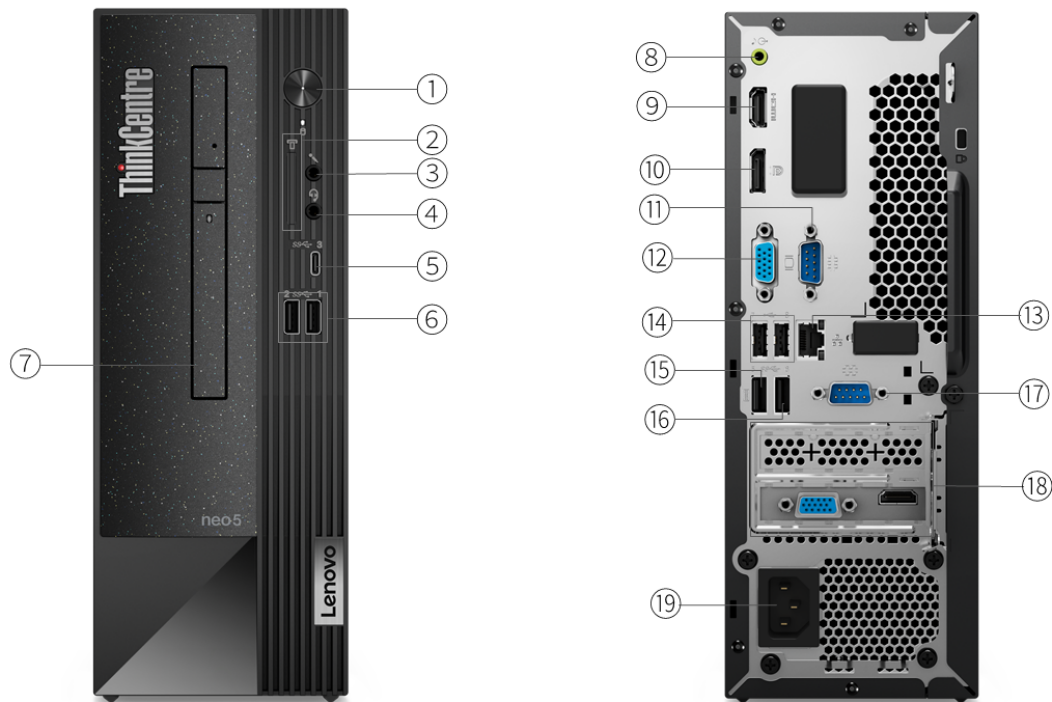


Tehnoteka je online destinacija za upoređivanje cena i karakteristika bele tehnike, potrošačke elektronike i IT uređaja kod trgovinskih lanaca i internet prodavnica u Srbiji. Naša stranica vam omogućava da istražite najnovije informacije, detaljne karakteristike i konkurentne cene proizvoda.

Posetite nas i uživajte u ekskluzivnom iskustvu pametne kupovine klikom na link:

<https://tehnoteka.rs/p/lenovo-racunar-thinkcentre-neo-50s-11sx002tya-akcija-cena/>

OVERVIEW



| | |
|---|---|
| 1. Power button | 11. Serial * |
| 2. Card reader * | 12. VGA |
| 3. Microphone (3.5mm) | 13. Ethernet (RJ-45) |
| 4. Headphone / microphone combo jack (3.5mm) | 14. 2x USB 2.0 |
| 5. USB-C 3.2 Gen 1 (support data transfer and 5V@3A charging) | 15. USB 3.2 Gen 1 (with Smart Power On feature) |
| 6. 2x USB 3.2 Gen 1 | 16. USB 3.2 Gen 1 |
| 7. Optical drive * | 17. Serial * |
| 8. Line-out (3.5mm) | 18. Optional ports on expansion cards * |
| 9. HDMI | 19. Power connector |
| 10. DisplayPort 1.4 | |

Notes:

- Items with * are only available on selected models
- Onboard video ports are only available for the models with integrated graphics

PERFORMANCE

Processor

Processor Family

Intel® Celeron®, Intel Pentium®, or 12th Generation Intel Core™ i3 / i5 / i7 / i9 Processor

Processor**

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|--------------------|--------------------------|---------|-------------------------------|--|-------|----------------|------------------------|
| Celeron G6900 | 2 | 2 | 3.4GHz | - | 4MB | DDR4-3200 | Intel UHD Graphics 710 |
| Pentium Gold G7400 | 2 | 4 | 3.7GHz | - | 6MB | DDR4-3200 | Intel UHD Graphics 710 |
| Core i3-12100 | 4 (4 P-core + 0 E-core) | 8 | P-core 3.3GHz | P-core 4.3GHz ^[1] | 12MB | DDR4-3200 | Intel UHD Graphics 730 |
| Core i3-12300 | 4 (4 P-core + 0 E-core) | 8 | P-core 3.5GHz | P-core 4.4GHz ^[2] | 12MB | DDR4-3200 | Intel UHD Graphics 730 |
| Core i5-12400 | 6 (6 P-core + 0 E-core) | 12 | P-core 2.5GHz | P-core 4.4GHz ^[3] | 18MB | DDR4-3200 | Intel UHD Graphics 730 |
| Core i5-12400F | 6 (6 P-core + 0 E-core) | 12 | P-core 2.5GHz | P-core 4.4GHz ^[4] | 18MB | DDR4-3200 | - |
| Core i5-12500 | 6 (6 P-core + 0 E-core) | 12 | P-core 3.0GHz | P-core 4.6GHz ^[5] | 18MB | DDR4-3200 | Intel UHD Graphics 770 |
| Core i5-12600 | 6 (6 P-core + 0 E-core) | 12 | P-core 3.3GHz | P-core 4.8GHz ^[6] | 18MB | DDR4-3200 | Intel UHD Graphics 770 |
| Core i7-12700 | 12 (8 P-core + 4 E-core) | 20 | P-core 2.1GHz / E-core 1.6GHz | Max Turbo up to 4.9GHz / P-core 4.8GHz / E-core 3.6GHz ^[7] | 25MB | DDR4-3200 | Intel UHD Graphics 770 |
| Core i7-12700F | 12 (8 P-core + 4 E-core) | 20 | P-core 2.1GHz / E-core 1.6GHz | Max Turbo up to 4.9GHz / P-core 4.8GHz / E-core 3.6GHz ^[8] | 25MB | DDR4-3200 | - |
| Core i9-12900 | 16 (8 P-core + 8 E-core) | 24 | P-core 2.4GHz / E-core 1.8GHz | Max Turbo up to 5.1GHz / P-core 5.0GHz / E-core 3.8GHz ^[9] | 30MB | DDR4-3200 | Intel UHD Graphics 770 |
| Core i9-12900F | 16 (8 P-core + 8 E-core) | 24 | P-core 2.4GHz / E-core 1.8GHz | Max Turbo up to 5.1GHz / P-core 5.0GHz / E-core 3.8GHz ^[10] | 30MB | DDR4-3200 | - |

Notes:

[1], [2], [3], [4], [5], [6], [7], [8], [9], [10] Intel Max Turbo frequency will vary depending on application workload and the hardware and software configurations, see <http://www.intel.com/technology/turboboost/> for more information.

Operating System

Operating System**

- Ubuntu Linux^[1]
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

[1] Some features may not be supported on the system with Linux preload, including but not limited to Intel RST RAID, Human Presence Detection, etc.

Graphics

Graphics^{***[1]}

| Graphics | Type | Memory | Connector | Max Resolution | Key Features |
|--|------------|-------------|---|---|-------------------------|
| Intel UHD graphics 710 | Integrated | Shared | 1x HDMI [®] 2.1 TMDS, 1x VGA, 1x DP 1.4 HBR2 | 3840×2160@60Hz(HDMI), 1920x1200@60Hz(VGA), 4096x2304@60Hz(DP) | DirectX [®] 12 |
| Intel UHD graphics 730 | Integrated | Shared | 1x HDMI 2.1 TMDS, 1x VGA, 1x DP 1.4 HBR2 | 3840×2160@60Hz(HDMI), 1920x1200@60Hz(VGA), 4096x2304@60Hz(DP) | DirectX 12 |
| Intel UHD graphics 770 | Integrated | Shared | 1x HDMI 2.1 TMDS, 1x VGA, 1x DP 1.4 HBR2 | 3840×2160@60Hz(HDMI), 1920x1200@60Hz(VGA), 4096x2304@60Hz(DP) | DirectX 12 |
| Intel Iris [®] Xe MAX 100 Graphics ^[2] | Discrete | 2GB LPDDR4X | 1x VGA, 1x HDMI 1.4 | 3840x2160@30Hz(HDMI), 1920x1080@60Hz(VGA) | DirectX 12, OpenGL 4.6 |

Notes:

[1] The information of integrated graphics are not applicable for the models with processor which has no integrated graphics inside (for the details, please refer to processor section).

[2] Onboard video ports are only available for the models with integrated graphics.

Monitor Support

Monitor Support

Supports up to 3 independent displays via (HDMI, DP and VGA), more displays support via discrete graphics

Chipset

Chipset

Intel B660 chipset

Memory

Max Memory^[1]

Up to 64GB DDR4-3200

Memory Slots

Two DDR4 UDIMM slots, dual-channel capable

Memory Type

DDR4-3200

Notes:

[1] The max memory is based on the test results with current Lenovo[®] memory offerings.

Storage

Storage Support^[1]

Up to two drives, 1x 2.5"/3.5" HDD + 1x M.2 SSD

- 2.5" HDD up to 1TB
- 3.5" HDD up to 2TB
- M.2 SSD up to 1TB

Storage Type^{***}

| Disk Type | Interface | RPM | Security |
|---------------|---|------|----------|
| 2.5" SATA HDD | SATA 6Gb/s | 7.2K | - |
| 3.5" SATA HDD | SATA 6Gb/s | 7.2K | - |
| M.2 2242 SSD | PCIe [®] NVMe [®] , PCIe 3.0 x4 | - | - |
| M.2 2280 SSD | PCIe NVMe, PCIe 3.0 x4 | - | Opal 2.0 |
| M.2 2280 SSD | PCIe NVMe, PCIe 4.0 x4 | - | Opal 2.0 |

RAID

No support

Notes:

[1] The max capacity of each disk type is based on the test results with current Lenovo storage offerings.

Removable Storage**Optical****

- DVD-ROM, SATA 1.5Gb/s, slim (9.0mm)
- DVD burner (DVD±RW), SATA 1.5Gb/s, slim (9.0mm)
- None

Card Reader

- 7-in-1 card reader (SD, SDHC, SDXC, MMC, MS, MS-Pro, XD)
- No card reader

Multi-Media**Audio Chip**

High Definition (HD) Audio, Realtek® ALC623-CG codec

Speakers

- No speakers
- Single speaker, 1W x1

Power Supply**Power Supply****

| Power | Type | Efficiency | Key Features |
|-------|-------|------------|--------------|
| 180W | Fixed | 85% | Autosensing |
| 260W | Fixed | 90% | Autosensing |

DESIGN**Input Device****Keyboard****

- Lenovo Calliope Keyboard (USB connector), black
- Lenovo Calliope Wireless Keyboard, black
- Lenovo Traditional Keyboard (USB connector), black
- No keyboard

Mouse**

- Lenovo Calliope Mouse (USB connector), black
- Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
- No mouse

Mechanical**Form Factor**

SFF (7.4L)

Dimensions (WxDxH)^[1]

100 x 308 x 274.8 mm (3.9 x 12.1 x 10.8 inches)

Packaging Dimensions (WxDxH)

195 x 390 x 500 mm (7.67 x 15.35 x 19.69 inches)

Weight^[2]

Around 4.5 kg (9.9 lbs)

Packaging Weight

Around 6.35 kg (14 lbs)

Case Color

Raven black

Bays

- 1x 2.5"/3.5" disk bay
- 1x slim ODD bay

Expansion Slots

- One PCIe 4.0 x16, low-profile (length < 167.65mm, height < 68.90mm)
- One PCIe 3.0 x1, low-profile (length < 167.65mm, height < 68.90mm)
- Two M.2 slots (one for WLAN, one for SSD)

EOU

No support

Stand

- Vertical stand
- No stand

Notes:

[1] The system dimensions may vary depending on configurations.

[2] The system weight is approximate and based on results in Lenovo lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

CONNECTIVITY

Network

Onboard Ethernet

Gigabit Ethernet, Realtek RTL8111HN, 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth[®]**

- Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi[®] + Bluetooth 5.0, M.2 card
- Intel Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, Intel vPro[®] technology support, M.2 card
- Realtek Wi-Fi 6 RTL8852AE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card^[1]
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card^[2]
- No WLAN and Bluetooth

Notes:

[1], [2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

Ports^[1]

Front Ports

- 1x USB-C[®] 3.2 Gen 1 (support data transfer and 5V@3A charging)
- 2x USB 3.2 Gen 1
- 1x headphone / microphone combo jack (3.5mm)
- 1x microphone (3.5mm)

Optional Front Ports

1x card reader

Rear Ports^{[2][3]}

- 2x USB 2.0
- 2x USB 3.2 Gen 1 (one supports Smart Power On)
- 1x HDMI 2.1 TMDS
- 1x DisplayPort[™] 1.4
- 1x VGA
- 1x Ethernet (RJ-45)
- 1x line-out (3.5mm)

Optional Rear Ports^{**}

- 2x USB 2.0 (via 2-port adapter)
- 1x parallel
- 1x serial
- 1x 2nd serial
- None

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;

USB4® 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;

USB4 40Gbps (USB 40Gbps): 40 Gbit/s;

Thunderbolt™ 3/4: 40 Gbit/s.

[2] For video ports on discrete graphics, please see graphics section.

[3] Onboard video ports are only available for the models with integrated graphics.

Monitor Cable

Monitor Cable***

- HDMI to HDMI cable
- HDMI to VGA dongle
- DP 1.2 to VGA dongle
- DP 1.2 to DVI-D dongle
- DP 1.2 to HDMI dongle
- DP 1.2 to dual DP 1.2 dongle
- No monitor cable
- Smart Cable (USB A-C)

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Physical Locks

- (Optional) Smart Cable Clip
- Kensington® Security Slot™, 3 x 7 mm
- Padlock Loop

Chassis Intrusion Switch

- Chassis intrusion switch
- No chassis intrusion switch

Fingerprint Reader

No fingerprint reader

BIOS Security

- Secure Wipe
- Power-on password
- Supervisor password
- Hard disk password
- Cover presence switch
- Smart USB protection (allows keyboard / mouse only, blocks all storage devices)
- Intel BIOS guard

MANAGEABILITY

System Management

System Management

Non-vPro

SERVICE

Warranty^[1]

Base Warranty**

- 1-year courier or carry-in service
- 1-year limited onsite service
- No base warranty

Notes:

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to <https://smartfind.lenovo.com/>. To learn more details of warranty policy, please access <https://pcsupport.lenovo.com/warranty>.

ENVIRONMENTAL**Operating Environment****Temperature**

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage: -40°C (-40°F) to 60°C (140°F)

Humidity

- Operating: 20% to 80%
- Storage: 10% to 90%

Altitude

- Operating: 0 m (0 ft) to 3048 m (10,000 ft)
- Storage: 0 m (0 ft) to 12192 m (40,000 ft)

CERTIFICATIONS**Green Certifications^[1]****Green Certifications**

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered^[2]
- (Optional) EPEAT Silver Registered^[3]
- ErP Lot 3
- RoHS compliant
- TCO Certified

Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

[2], [3] EPEAT is registered where applicable, please see <https://www.epeat.net> for registration status by country.

Other Certifications**Other Certifications**

- (Optional) TÜV Rheinland® Low Noise
- (Optional) TÜV Rheinland Ultra Low Noise

- Feature with ** means that only one offering listed under the feature is configured on selected models.
- Feature with *** means that one or more offerings listed under the feature could be configured on selected models.
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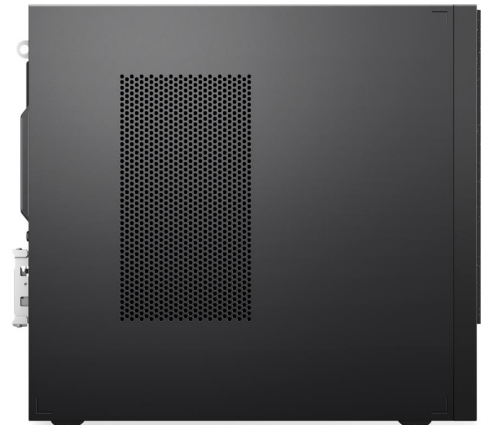
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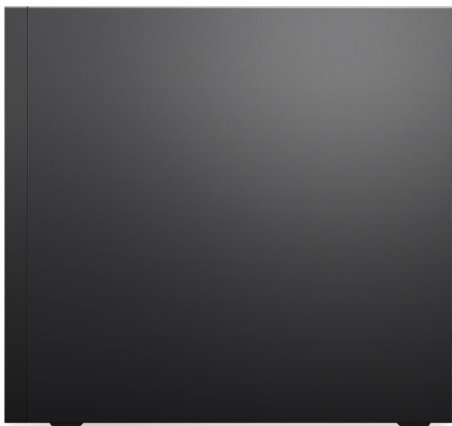
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Za najnovije informacije o ceni, dostupnim akcijama i tehničkim karakteristikama proizvoda koji se pominje u ovom dokumentu, molimo posetite našu stranicu klikom na sledeći link:

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