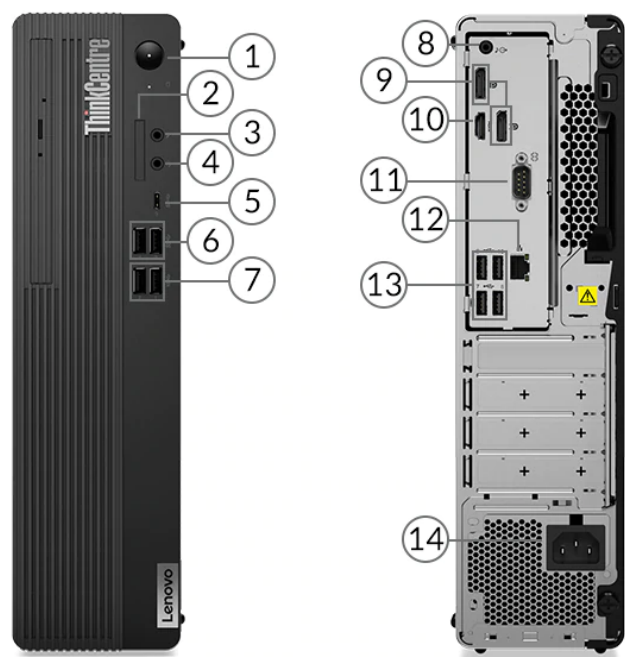


OVERVIEW



| | |
|--|-------------------------|
| 1. Power button | 8. Line-out (3.5mm) |
| 2. Card reader | 9. 2x DisplayPort 1.4 |
| 3. Microphone jack (3.5mm) | 10. HDMI 1.4b |
| 4. Headphone / microphone combo jack (3.5mm) | 11. Serial |
| 5. USB-C 3.2 Gen 1 | 12. Ethernet (RJ-45) |
| 6. 2x USB 3.2 Gen 1 | 13. 4x USB 2.0 (Note 1) |
| 7. 2x USB 3.2 Gen 2 | 14. Power connector |

- Notes:
- 4 rear USB ports are USB 3.2 Gen 1 for selected Brazil models only
 - More ports are available through the optional expansion cards (not shown on the sample product above)

PERFORMANCE

Processor

Processor Family

AMD Athlon™ or AMD Ryzen™ 3 / 5 / 7 / 9 Processor

Processor**

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|---|-------|---------|----------------|---------------|------------------|----------------|------------------------------|
| AMD Athlon™ Gold PRO 3150G ^[1] | 4 | 4 | 3.5GHz | 3.9GHz | 2MB L2 / 4MB L3 | DDR4-2933 | AMD Radeon™ Graphics |
| AMD Athlon™ Silver 3050GE ^[2] | 2 | 4 | 3.4GHz | 3.4GHz | 1MB L2 / 4MB L3 | DDR4-2666 | AMD Radeon™ Graphics |
| AMD Ryzen™ 3 3200G ^[3] | 4 | 4 | 3.6GHz | 4.0GHz | 2MB L2 / 4MB L3 | DDR4-2933 | AMD Radeon™ Vega 8 Graphics |
| AMD Ryzen™ 3 4300G ^[4] | 4 | 8 | 3.8GHz | 4.0GHz | 2MB L2 / 4MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen™ 3 5300G | 4 | 8 | 4.0GHz | 4.2GHz | 2MB L2 / 8MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen™ 3 PRO 4350G ^[5] | 4 | 8 | 3.8GHz | 4.0GHz | 2MB L2 / 4MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen™ 3 PRO 5350G | 4 | 8 | 4.0GHz | 4.2GHz | 2MB L2 / 8MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen™ 3 PRO 5355G | 4 | 8 | 4.0GHz | 4.2GHz | 2MB L2 / 8MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen™ 5 4600G ^[6] | 6 | 12 | 3.7GHz | 4.2GHz | 3MB L2 / 8MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen™ 5 5600G | 6 | 12 | 3.9GHz | 4.4GHz | 3MB L2 / 16MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen™ 5 PRO 3350G ^[7] | 4 | 8 | 3.6GHz | 4.0GHz | 2MB L2 / 4MB L3 | DDR4-2933 | AMD Radeon™ Vega 11 Graphics |
| AMD Ryzen™ 5 PRO 3400G ^[8] | 4 | 8 | 3.7GHz | 4.2GHz | 2MB L2 / 4MB L3 | DDR4-2933 | AMD Radeon™ Vega 11 Graphics |
| AMD Ryzen™ 5 PRO 3600 ^[9] | 6 | 12 | 3.6GHz | 4.2GHz | 3MB L2 / 32MB L3 | DDR4-3200 | - |
| AMD Ryzen™ 5 PRO 4650G ^[10] | 6 | 12 | 3.7GHz | 4.2GHz | 3MB L2 / 8MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen™ 5 PRO 5650G | 6 | 12 | 3.9GHz | 4.4GHz | 3MB L2 / 16MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen™ 5 PRO 5655G | 6 | 12 | 3.9GHz | 4.4GHz | 3MB L2 / 16MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen™ 7 4700G ^[11] | 8 | 16 | 3.6GHz | 4.4GHz | 4MB L2 / 8MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen™ 7 5700G | 8 | 16 | 3.8GHz | 4.6GHz | 4MB L2 / 16MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen™ 7 PRO 3700 ^[12] | 8 | 16 | 3.6GHz | 4.4GHz | 4MB L2 / 32MB L3 | DDR4-3200 | - |
| AMD Ryzen™ 7 PRO 4750G ^[13] | 8 | 16 | 3.6GHz | 4.4GHz | 4MB L2 / 8MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen™ 7 PRO 5750G | 8 | 16 | 3.8GHz | 4.6GHz | 4MB L2 / 16MB L3 | DDR4 3200 | AMD Radeon™ Graphics |
| AMD Ryzen™ 7 PRO 5755G | 8 | 16 | 3.8GHz | 4.6GHz | 4MB L2 / 16MB L3 | DDR4 3200 | AMD Radeon™ Graphics |

| | | | | | | | |
|---------------------------------------|----|----|--------|--------|------------------|-----------|---|
| AMD Ryzen™ 9 PRO 3900 ^[14] | 12 | 24 | 3.1GHz | 4.3GHz | 6MB L2 / 64MB L3 | DDR4-3200 | - |
|---------------------------------------|----|----|--------|--------|------------------|-----------|---|

Notes:

[1], [2], [3], [4], [5], [6], [7], [8], [9], [10], [11], [12], [13], [14] End of life and not available any more.

Operating System

Operating System**

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- Windows® 11 DG Windows® 10 Pro 64
- Windows® 10 Pro 64
- Windows® 10 Home 64
- Windows® 10 Home 64 Single Language
- Windows® 10 IoT Enterprise
- Ubuntu Linux^[1]
- No preload 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][2]}

| Graphics | Type | Memory | Max Resolution | Connector | Key Features |
|------------------------------|------------|-----------|---|-----------------------------------|-------------------------|
| AMD Radeon™ Graphics | Integrated | Shared | 4096x2160@60Hz(DP), 4096x2160@24Hz(HDMI®) | 2x DisplayPort™ 1.4, 1x HDMI® 1.4 | DirectX® 12 |
| AMD Radeon™ Vega 11 Graphics | Integrated | Shared | 4096x2160@60Hz(DP), 4096x2160@24Hz(HDMI®) | 2x DisplayPort™ 1.4, 1x HDMI® 1.4 | DirectX® 12 |
| AMD Radeon™ Vega 8 Graphics | Integrated | Shared | 4096x2160@60Hz(DP), 4096x2160@24Hz(HDMI®) | 2x DisplayPort™ 1.4, 1x HDMI® 1.4 | DirectX® 12 |
| AMD Radeon™ 520 | Discrete | 2GB GDDR5 | 4096x2160@60Hz(DP) | 2x DP 1.2 | DirectX® 12 |
| AMD Radeon™ RX 550X | Discrete | 4GB GDDR5 | 4096x2160@60Hz(HDMI®), 3840x2160@60Hz(DP) | 1x HDMI® 2.0, 1x DP 1.4 | DirectX® 12, OpenGL 4.5 |
| AMD Radeon™ RX 6400 | Discrete | 4GB GDDR6 | 7680x4320@60Hz(HDMI®), 7680x4320@60Hz(DP) | 1x HDMI® 2.1 FRL, 1x DP 1.4a | 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] AMD Radeon™ 520 is not available for MT 11R7 / 11R8 / 11R9 / 11RA.

Monitor Support

Monitor Support

Supports up to 3 independent displays via onboard ports (HDMI® and 2x DisplayPort™), more displays support via discrete graphics

Chipset

Chipset

AMD PRO 565 chipset

Memory^[1]

Max Memory^[2]

Up to 128GB DDR4-3200

Memory Slots

Four DDR4 DIMM slots, dual-channel capable

Memory Type**

- DDR4-1866^[3]
- DDR4-2133^[4]
- DDR4-2400^[5]
- DDR4-2666^[6]
- DDR4-3200

Notes:

- [1] Recommend to choose the models with more than 4GB for better performance and experience.
- [2] The max memory is based on the test results with current Lenovo® memory offerings.
- [3] Installed memory is actually DDR4-3200 but may run as DDR4-1866 depending on the memory support capability of processor.
- [4] Installed memory is actually DDR4-3200 but may run as DDR4-2133 depending on the memory support capability of processor.
- [5] Installed memory is actually DDR4-3200 but may run as DDR4-2400 depending on the memory support capability of processor.
- [6] Installed memory is actually DDR4-3200 but may run as DDR4-2666 depending on the memory support capability of processor.

Storage

Max Storage Support^[1]

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

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

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 x2 | - | - |
| M.2 2242 SSD | PCIe® NVMe®, PCIe® 3.0 x4 | - | - |
| M.2 2280 SSD | PCIe® NVMe®, PCIe® 3.0 x4 | - | Opal |
| M.2 2280 SSD | PCIe® NVMe®, PCIe® 4.0 x4 Value ^[2] | - | Opal 2.0 |
| M.2 2280 SSD ^[3] | PCIe® NVMe®, PCIe® x4 | - | Opal 2.0 |

RAID

RAID 0/1 support for HDDs (RAID preset only available via special bid models)

Notes:

- [1] The max capacity of each disk type is based on the test results with current Lenovo® storage offerings.
- [2] M.2 PCIe® Gen 4 SSD in the M.2 PCIe® Gen 3 slot is downgraded to PCIe® Gen 3 performance.
- [3] PCIe® x4 SSD may be PCIe® 3.0 x4 or PCIe® 4.0 x4 as substitution. M.2 PCIe® Gen 4 SSD in the M.2 PCIe® Gen 3 slot is downgraded to PCIe® Gen 3 performance.

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

- 3-in-1 card reader (SD, SDHC, SDXC)
- 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% | - |
| 260W | Fixed | 85% | 100-240V, 50-60Hz |
| 310W | Fixed | 92% | 100-240V, 50-60Hz |

DESIGN

Input Device

Keyboard**

- Lenovo® Calliope Keyboard (USB connector), black
- Lenovo® Calliope Wireless Keyboard (2.4GHz via USB receiver), 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
- Lenovo® Fingerprint Mouse (USB connector), Windows® Hello support, black (EOL on Jan, 2023)
- No mouse

Mechanical

Form Factor

SFF (8.2L)

Dimensions (WxDxH)^[1]

92.5 x 297.7 x 339.5 mm (3.6 x 11.7 x 13.4 inches)

Weight^[2]

Around 5.3 kg (11.7 lbs)

Case Color

Black

Bays

- 1x 2.5" disk bay (bay comes with disk)
- 1x 3.5" disk bay
- 1x slim ODD bay

Expansion Slots

- One PCIe® 3.0 x16, low-profile (length < 155mm, height < 68mm)
- One PCIe® 3.0 x1, low-profile (length < 155mm, height < 68mm)
- Two M.2 slots (one for WLAN, one for SSD)
- Two dummy slots, only brackets for optional port extension

EOU

EOU design for chassis open, M.2 SSD, HDD, ODD, memory, and PCIe® extension card^[3]

Stand

- Vertical stand
- No stand

Others

- (Optional) Dust filter
- Supports Smart Power On

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.

[3] To comply with UL 4200A, the toolless features are not available for the following countries:

Argentina, Belize, Bolivia, Canada, Caribbean Group, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, TAA, Uruguay, USA, Venezuela.

CONNECTIVITY

Network^[1]

WLAN + Bluetooth^{**}

- Realtek® RTL8822CE, Wi-Fi® 5, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth® 5.0, M.2 card
- Intel® Wireless-AC 9260, Wi-Fi® 5, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth® 5.0, M.2 card
- MediaTek Wi-Fi® 6 MT7921, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 Card^[2]
- Realtek® Wi-Fi® 6 RTL8852AE, 802.11ax Dual Band 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card^[3]
- Intel® Wi-Fi® 6 AX200, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.1, M.2 card^[4]
- No WLAN and Bluetooth®

Onboard Ethernet^{**}

- Gigabit Ethernet, Realtek® RTL8111EPV, 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Realtek® RTL8111HN, 1x RJ-45, supports Wake-on-LAN

Optional Ethernet^{**[5]}

- Gigabit Ethernet, Bitland BN8E88, 1x RJ-45, PCIe® x1
- Gigabit Ethernet, Bitland RTL8111FP, 1x RJ-45, PCIe® x1
- No optional Ethernet

Notes:

[1] This system does not support Power Over Ethernet (PoE). If the system is used in a PoE environment, then a Network Isolator is required to prevent possible damage to the system, PoE equipment, or both.

[2], [3] Bluetooth® 5.3 requires Windows® 11.

[4] Bluetooth® 5.2 is hardware ready but may run at a lower version due to OS limitations.

[5] RTL8111FP is not available for AP countries.

Ports^[1]

Front Ports

- 1x USB-C® 3.2 Gen 1
- 2x USB 3.2 Gen 1
- 2x USB 3.2 Gen 2
- 1x headphone / microphone combo jack (3.5mm)
- 1x microphone (3.5mm)

Optional Front Ports

- 1x card reader
- None

Rear Ports

- 4x USB 2.0
- 1x HDMI® 1.4b
- 2x DisplayPort™ 1.4
- 1x Ethernet (RJ-45)
- 1x line-out (3.5mm)
- 1x serial (9-pin)

Optional Rear Ports^{***}

- 2x USB-C® 3.2 Gen 2 (support data transfer, via 2-port USB-C® expansion card, PCIe® x4)
- 2x USB 3.2 Gen 1 (via 2-port USB expansion card, PCIe® x1)
- 2x USB 2.0 (via 2-port adapter)
- 1x parallel
- 1x serial

- 4x serial (via 4-port serial expansion card, PCIe® x1)

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.

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Physical Locks

- (Optional) E-lock
- (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

- Touch style fingerprint reader on mouse (EOL on Jan, 2023)
- No fingerprint reader

BIOS Security

- Administrator password
- Hard disk password
- Power-on password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Smart USB protection (allows keyboard / mouse only, blocks all storage devices)
- More BIOS security features, please visit [BIOS Simulator](#)^[1]

Notes:

[1] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

MANAGEABILITY

System Management

System Management^[1]

- DASH 1.2
- Non-DASH

Notes:

[1] DASH 1.2 is an optional feature for the selected MTs, MT 11W1 / 11W2 / 11W3 / 11W4 do not support DASH.

SERVICE

Warranty^[1]

Base Warranty

**

- 1-year courier or carry-in service
- 1-year limited onsite service
- 3-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://support.lenovo.com/warrantylookup/warrantypolicy>.

ACCESSORIES

Bundled Accessories

Bundled Accessories***

- DP to DVI dongle
- DP to Dual DP dongle
- DP to HDMI® dongle
- DP to VGA cable (1.5m)
- DP to VGA dongle
- HDMI® to DVI dongle
- HDMI® to HDMI® cable (1.5m)
- HDMI® to VGA dongle
- None

OPERATING REQUIREMENTS

Operating Environment

Temperature

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

Relative 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^[2]

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Silver Registered^[3]
- (Optional) EPEAT™ Gold Registered^[4]
- ErP Lot 3
- RoHS compliant
- TCO Certified 8.0

Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration. For ESG & regulatory compliance documents, please visit <https://compliance.lenovo.com>.

[2] ENERGY STAR® 8.0 and EPEAT™ are only available for selected MTs.

[3], [4] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Other Certifications

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

Mil-Spec Test

MIL-STD-810H military test passed (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

- Feature with ** means that only one option listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
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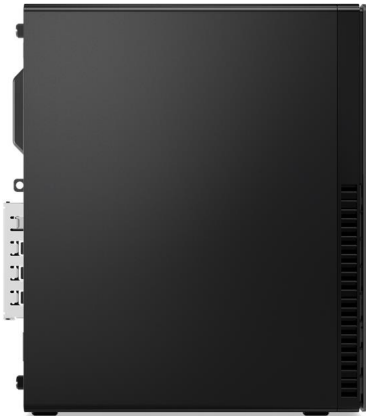
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