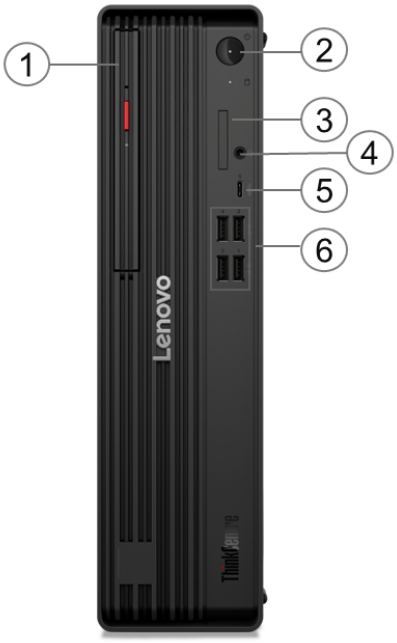
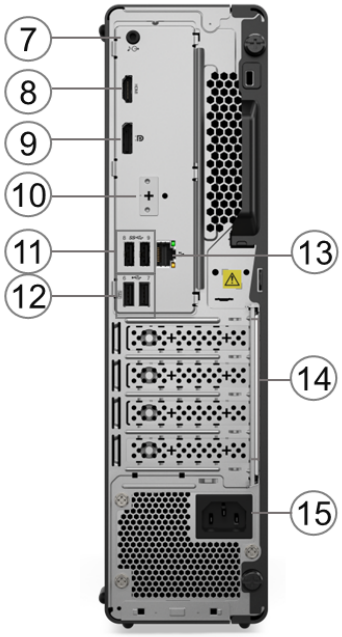
OVERVIEW





1. Optical drive *	9. DisplayPort 1.4a (HBR3)
2. Power button	10. Flex IO *
3. Card reader *	11. 2x USB-A (USB 5Gbps)
4. Headphone / microphone combo jack (3.5mm)	12. 2x USB-A (Hi-Speed USB), one supports Smart Power On
5. USB-C (USB 10Gbps), data transfer and 5V@3A charging	13. Ethernet (RJ-45)
6. 4x USB-A (USB 10Gbps)	14. Optional ports on expansion cards *
7. Line-out (3.5mm)	15. Power connector
8. HDMI 2.1 TMDS	

Notes:

- Items with * are only available on selected models
- Flex IO supports one optional port from HDMI 2.1 FRL, USB-C (with DP function), DP 1.2a and DP 2.1.
- More ports are available through the optional expansion cards (not shown on the sample product above)

PERFORMANCE

Processor

Processor Family**

- AMD Ryzen™ 3 / 5 / 7 8000, Ryzen™ 3 / 5 / 7 PRO 8000 Series Processor - Phoenix
- AMD Ryzen™ AI 5 / 7 400 or Ryzen™ AI 5 / 7 PRO 400 Series Processor - Gorgon Point AM5

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU
AMD Ryzen™ 3 8305G	4	8	3.4GHz	4.9GHz	4MB L2 / 8MB L3	AMD Radeon™ 740M	-
AMD Ryzen™ 3 PRO 8305G	4	8	3.4GHz	4.9GHz	4MB L2 / 8MB L3	AMD Radeon™ 740M	-
AMD Ryzen™ 5 8505G	6	12	3.5GHz	5.0GHz	6MB L2 / 16MB L3	AMD Radeon™ 740M	-
AMD Ryzen™ 5 8605G	6	12	4.3GHz	5.0GHz	6MB L2 / 16MB L3	AMD Radeon™ 760M	AMD Ryzen™ AI, up to 16 TOPS
AMD Ryzen™ 5 PRO 8505G	6	12	3.5GHz	5.0GHz	6MB L2 / 16MB L3	AMD Radeon™ 740M	-
AMD Ryzen™ 5 PRO 8605G	6	12	4.3GHz	5.0GHz	6MB L2 / 16MB L3	AMD Radeon™ 760M	AMD Ryzen™ AI, up to 16 TOPS
AMD Ryzen™ 7 8705G	8	16	4.2GHz	5.1GHz	8MB L2 / 16MB L3	AMD Radeon™ 780M	AMD Ryzen™ AI, up to 16 TOPS
AMD Ryzen™ 7 PRO 8705G	8	16	4.2GHz	5.1GHz	8MB L2 / 16MB L3	AMD Radeon™ 780M	AMD Ryzen™ AI, up to 16 TOPS
AMD Ryzen™ AI 5 435G	6	12	2.0GHz	4.5GHz	6MB L2 / 8MB L3	AMD Radeon™ 840M	AMD Ryzen™ AI, up to 50 TOPS
AMD Ryzen™ AI 5 440G	6	12	2.0GHz	4.8GHz	6MB L2 / 16MB L3	AMD Radeon™ 840M	AMD Ryzen™ AI, up to 50 TOPS
AMD Ryzen™ AI 5 PRO 435G	6	12	2.0GHz	4.5GHz	6MB L2 / 8MB L3	AMD Radeon™ 840M	AMD Ryzen™ AI, up to 50 TOPS
AMD Ryzen™ AI 5 PRO 440G	6	12	2.0GHz	4.8GHz	6MB L2 / 16MB L3	AMD Radeon™ 840M	AMD Ryzen™ AI, up to 50 TOPS
AMD Ryzen™ AI 7 450G	8	16	2.0GHz	5.1GHz	8MB L2 / 16MB L3	AMD Radeon™ 860M	AMD Ryzen™ AI, up to 50 TOPS
AMD Ryzen™ AI 7 PRO 450G	8	16	2.0GHz	5.1GHz	8MB L2 / 16MB L3	AMD Radeon™ 860M	AMD Ryzen™ AI, up to 50 TOPS

AI (Artificial Intelligence)

AI PC Category**

- Copilot+ PC
- AI PC
- Non-AI PC

NPU

- Integrated AMD Ryzen™ AI, up to 16 TOPS (Phoenix) or up to 50 TOPS (Gorgon Point AM5)
- None

Operating System

Operating System**

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- Windows® 11 IoT Enterprise LTSC 2024
- Ubuntu Linux

- No preload operating system

Graphics

Graphics[***]

Graphics	Type	Memory	Max Resolution	Connector	Key Features
AMD Radeon™ 740M	Integrated	Shared	7680x4320@30Hz(DP 1.4a HBR3), 4096x2160@60Hz[HDMI® 2.1 TMDS / Flex IO(DP 1.2a HBR2) / Flex IO(USB-C®)], 7680x4320@60Hz[Flex IO(DP2.1 UHBR20) / Flex IO(HDMI® 2.1 FRL)]	1x DP 1.4a HBR3, 1x HDMI® 2.1 TMDS, 1x Flex IO (DP 1.2a HBR2 / DP 2.1 UHBR20 / HDMI® 2.1 FRL / USB-C®)	DirectX® 12
AMD Radeon™ 760M	Integrated	Shared	7680x4320@30Hz(DP 1.4a HBR3), 4096x2160@60Hz[HDMI® 2.1 TMDS / Flex IO(DP 1.2a HBR2) / Flex IO(USB-C®)], 7680x4320@60Hz[Flex IO(DP2.1 UHBR20) / Flex IO(HDMI® 2.1 FRL)]	1x DP 1.4a HBR3, 1x HDMI® 2.1 TMDS, 1x Flex IO (DP 1.2a HBR2 / DP 2.1 UHBR20 / HDMI® 2.1 FRL / USB-C®)	DirectX® 12
AMD Radeon™ 780M	Integrated	Shared	7680x4320@30Hz(DP 1.4a HBR3), 4096x2160@60Hz[HDMI® 2.1 TMDS / Flex IO(DP 1.2a HBR2) / Flex IO(USB-C®)], 7680x4320@60Hz[Flex IO(DP2.1 UHBR20) / Flex IO(HDMI® 2.1 FRL)]	1x DP 1.4a HBR3, 1x HDMI® 2.1 TMDS, 1x Flex IO (DP 1.2a HBR2 / DP 2.1 UHBR20 / HDMI® 2.1 FRL / USB-C®)	DirectX® 12
AMD Radeon™ 840M	Integrated	Shared	7680x4320@30Hz(DP 1.4a HBR3), 4096x2160@60Hz[HDMI® 2.1 TMDS / Flex IO(DP 1.2a HBR2) / Flex IO(USB-C®)], 7680x4320@60Hz[Flex IO(DP2.1 UHBR20) / Flex IO(HDMI® 2.1 FRL)]	1x DP 1.4a HBR3, 1x HDMI® 2.1 TMDS, 1x Flex IO (DP 1.2a HBR2 / DP 2.1 UHBR20 / HDMI® 2.1 FRL / USB-C®)	DirectX® 12
AMD Radeon™ 860M	Integrated	Shared	7680x4320@30Hz(DP 1.4a HBR3), 4096x2160@60Hz[HDMI® 2.1 TMDS / Flex IO(DP 1.2a HBR2) / Flex IO(USB-C®)], 7680x4320@60Hz[Flex IO(DP2.1 UHBR20) / Flex IO(HDMI® 2.1 FRL)]	1x DP 1.4a HBR3, 1x HDMI® 2.1 TMDS, 1x Flex IO (DP 1.2a HBR2 / DP 2.1 UHBR20 / HDMI® 2.1 FRL / USB-C®)	DirectX® 12
AMD Radeon™ RX 6400	Discrete	8GB GDDR6	7680x4320@60Hz(HDMI®), 7680x4320@60Hz(DP)	1x HDMI® 2.1 FRL, 1x DP 1.4a	DirectX® 12, OpenGL 4.6

Monitor Support

Monitor Support

Supports up to 3 independent displays via onboard ports (HDMI®, DisplayPort™, and 1x optional Flex IO), more displays support via discrete graphics

Chipset

Chipset

AMD PRO665 Chipset

Memory

Max Memory[1]

- Up to 64GB DDR5
- Up to 128GB DDR5[2]

Memory Slots

- Two DDR5 UDIMM slots, dual-channel capable
- Four DDR5 UDIMM slots, dual-channel capable[3]

Memory Type[**]

- DDR5-3600[4]
- DDR5-5200[5]
- DDR5-5600

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.
[2], [3] For Brazil only
[4] Installed memory is actually DDR5-5600 but may run as DDR5-3600 depending on the memory support capability of AMD (four DIMMs).
[5] Installed memory is actually DDR5-5600 but may run as DDR5-5200 depending on the memory support capability of AMD (Phoenix).

Storage

Max Storage Support[1]

Up to three drives, 1x 3.5" HDD + 2x M.2 SSD
• 3.5" HDD up to 2TB
• M.2 SSD up to 2TB each

Storage Type***

Disk Type	Interface	RPM	Security
3.5" SATA HDD	SATA 6Gb/s	7.2K	-
M.2 2280 SSD	PCIe® NVMe®, PCIe® 4.0 x4	-	Opal 2.0
M.2 2280 SSD	PCIe® NVMe®, PCIe® 5.0 x4[2]	-	Opal 2.0
M.2 2280 SSD	PCIe® NVMe®, PCIe® 5.0 x4 Performance[3]	-	Opal 2.0

RAID

RAID 0/1 support for M.2 SSDs (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], [3] M.2 PCIe® Gen 5 SSD in the M.2 PCIe® Gen 4 slot is downgraded to PCIe® Gen 4 performance.

Removable Storage

Optical

- DVD burner (DVD±RW), SATA connector, 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

- Single speaker, 1W x1
- No speakers

Power Supply

Power Supply**

Power	Type	Efficiency	Key Features
200W	Fixed	90%	100-240V, 50-60Hz
260W	Fixed	90%	100-240V, 50-60Hz
310W	Fixed	92%	100-240V, 50-60Hz
400W	Fixed	92%	100-240V, 50-60Hz

DESIGN

Input Device

Keyboard**

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

Mouse**

- Lenovo® Calliope Mouse (USB connector), black
- Lenovo® Fingerprint Mouse (USB connector), black
- Wireless EOS Mouse, black
- No mouse

Mechanical

Form Factor

SFF (8.2L)

Dimensions (WxDxH)[1]

89 x 299.7 x 339.5 mm (3.5 x 11.8 x 13.37 inches)

Packaging Dimensions (WxDxH)

195 x 395 x 530 mm (7.7 x 15.6 x 20.9 inches)

Weight[2]

4.8 kg (10.58 lbs, maximum configuration)

Packaging Weight

6.7 kg (14.77 lbs, maximum configuration)

Case Color

Black

Bays

- 1x 3.5″ disk bay
- 1x slim ODD bay

Expansion Slots

- One PCIe® 4.0 x16, low-profile, length ≤ 155mm, height ≤ 70mm
- Three PCIe® 3.0 x1, low-profile, length ≤ 155mm, height ≤ 70mm (for Brazil only)[3]
- Two PCIe® 3.0 x1, low-profile, length ≤ 155mm, height ≤ 70mm (not for Brazil)[4]
- Three M.2 slots (one for WLAN, two for SSD)[5]

EOU

Toolless cover, memory, disk, optical, extension card assembly / removal

Stand

- Vertical stand
- No stand

Others

(Optional) Dust filter

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] For Brazil only

[4] Not for Brazil

[5] M.2 slot for SSD is M.2 PCIe® 4.0 x4 slot, Gen 5 SSD on M.2 PCIe® 4.0 slot will run on PCIe® 4.0 protocols.

CONNECTIVITY

Network

WLAN + Bluetooth®**[1]

- MediaTek Wi-Fi® 6 MT7920, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card
- Realtek® Wi-Fi® 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card
- MediaTek Wi-Fi® 7 MT7925, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card

- Realtek® Wi-Fi® 7 RTL8922AE, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card
- No WLAN and Bluetooth®

Onboard Ethernet

Gigabit Ethernet, Realtek® RTL8111FP, 1x RJ-45, supports DASH and Wake-on-LAN

Optional Ethernet

- 2.5 Gigabit Ethernet, Realtek® RTL8125BGS, 1x RJ-45, supports Wake-on-LAN
- No optional Ethernet

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

Ports[1]

Front Ports

- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with data transfer and 5V@3A charging
- 4x USB-A (USB 10Gbps / USB 3.2 Gen 2)
- 1x headphone / microphone combo jack (3.5mm)

Optional Front Ports

1x card reader

Rear Ports

- 2x USB-A (Hi-Speed USB / USB 2.0), one supports Smart Power On
- 2x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x HDMI® 2.1 TMDS
- 1x DisplayPort™ 1.4a (HBR3)
- 1x Ethernet (GbE RJ-45)
- 1x line-out (3.5mm)

Optional Rear Ports***

- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2, Supports DP1.4a HBR3, up to 4K/60Hz, Flex IO)
- 1x HDMI® 2.1 (FRL, up to 8K/60Hz, Flex IO)
- 1x DP 1.2a (HBR2, up to 4K/60Hz, Flex IO)
- 1x DP 2.1 (UHBR20, up to 8K/60Hz, Flex IO)
- 1x USB-C® (USB 20Gbps / USB 3.2 Gen 2x2), support data transfer, via PCIe® x4 card
- 2x USB-C® (USB 10Gbps / USB 3.2 Gen 2), support data transfer, via PCIe® x4 card
- 2x USB-A (Hi-Speed USB / USB 2.0), via 2-port adapter
- 2x USB-A (USB 5Gbps / USB 3.2 Gen 1), via 2-port USB expansion card, PCIe® x1
- 1x 2.5GbE RJ-45, via additional PCIe® adapter
- 1x parallel
- 1x serial
- 1x 2nd serial

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.
Thunderbolt™ 5: 80 Gbit/s (bidirectional), up to 120 Gbit/s in bandwidth boost mode for video-intensive applications.

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified, FIPS 140-2 certified

Physical Locks

- (Optional) Coded Lock
- (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
- No fingerprint reader

Other Security

Pluton security processor

BIOS Security

- Absolute persistence module
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Configuration change detection
- Certificate-based BIOS authentication
- Cover tamper detected
- EC Based (Level2) Self-Healing 2.0
- Individual USB port disablement
- Hard disk password
- Power-on password
- Smart USB protection (allows keyboard / mouse only, blocks all storage devices)
- Secure boot
- Secure wipe
- More BIOS security features, please visit BIOS Simulator

MANAGEABILITY

System Management

System Management**

- AMD PRO technology with DASH and AIM-T
- 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 HDMI® dongle

- DP to VGA dongle
- HDMI® to HDMI® cable (1.5m)
- HDMI® to VGA dongle
- Smart Cable (USB-A to USB-C®)
- 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)

ENVIRONMENTAL

Sustainability

Material[1]

85% PCC ABS in chassis
95% PCC ABS in wired keyboard/mouse
65% PCC ABS in EOS 2.4G wireless keyboard/mouse
65% PCC (including 30% OBP) + 30% PIC Cushion
30% OBP bag
FSC carton

Notes:

[1] PCC: Post Consumer Content, recycled materials from customers.
PIC: Post Industry Content, recycled materials from internal factories.
EPE: Expanded Polyethylene.
OBP: Ocean Bound Plastic, reducing plastic spill into the sea.
FSC: Forest Stewardship Council.

CERTIFICATIONS

Green Certifications[1]

Green Certifications

- (Optional) ENERGY STAR® 9.0
- (Optional) EPEAT Gold Registered[2]
- (Optional) TCO Certified 10
- ErP Lot 3
- GREENGUARD®
- RoHS compliant

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] 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, Solar Radiation, Contamination by Fluids, Salt Fog)

- 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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