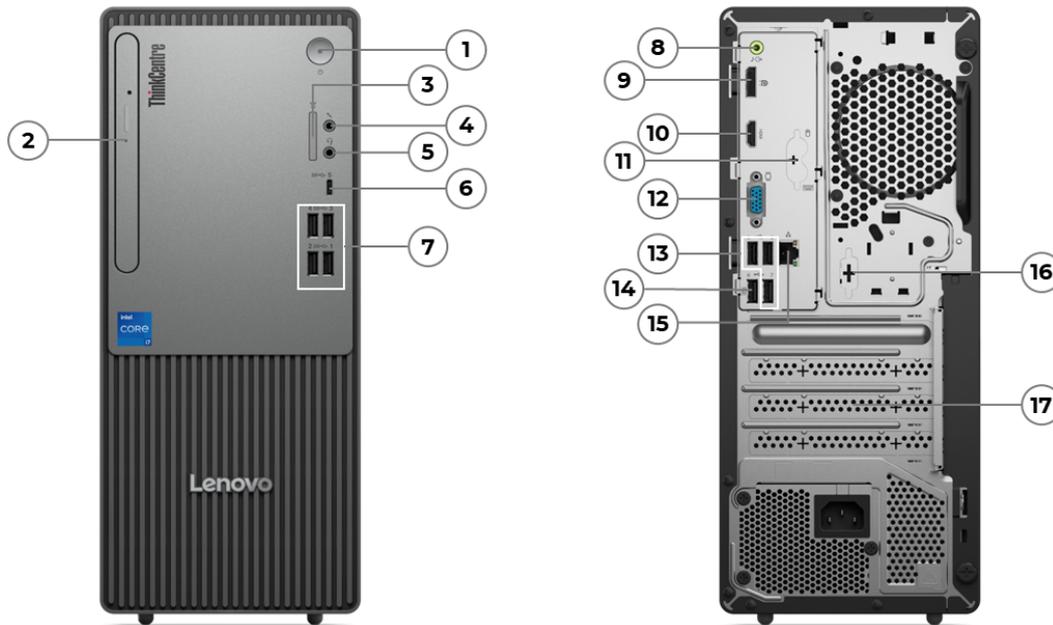


## OVERVIEW



1. Power button	10. HDMI 2.1 TMDS
2. Optical drive *	11. 2x PS/2 ports (keyboard / mouse) *
3. Card reader *	12. VGA
4. Microphone jack (3.5mm)	13. 3x USB-A (Hi-Speed USB)
5. Headphone / microphone combo jack (3.5mm)	14. USB-A (Hi-Speed USB), with Smart Power On
6. USB-C (USB 5Gbps), data transfer only	15. Ethernet (RJ-45)
7. 4x USB-A (USB 5Gbps)	16. Serial *
8. Audio-out (3.5mm)	17. Optional ports on expansion cards *
9. DisplayPort 1.4a (HBR2)	

Notes:

- Items with \* are only available on selected models

## PERFORMANCE

### Processor

#### Processor Family

13th / 14th Generation Intel® Core™ i3 / i5 / i7 Processor, or Intel® 300 Processor

#### Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
Core i3-13100	4 (4 P-core + 0 E-core)	8	P-core 3.4GHz	P-core 4.5GHz	12MB	Intel® UHD Graphics 730
Core i5-13400	10 (6 P-core + 4 E-core)	16	P-core 2.5GHz / E-core 1.8GHz	P-core 4.6GHz / E-core 3.3GHz	20MB	Intel® UHD Graphics 730
Core i7-13700	16 (8 P-core + 8 E-core)	24	P-core 2.1GHz / E-core 1.5GHz	Max Turbo up to 5.2GHz / P-core 5.1GHz / E-core 4.1GHz	30MB	Intel® UHD Graphics 770
Core i3-14100	4 (4 P-core + 0 E-core)	8	P-core 3.5GHz	P-core 4.7GHz	12MB	Intel® UHD Graphics 730
Core i5-14400	10 (6 P-core + 4 E-core)	16	P-core 2.5GHz / E-core 1.8GHz	P-core 4.7GHz / E-core 3.5GHz	20MB	Intel® UHD Graphics 730
Core i5-14400F	10 (6 P-core + 4 E-core)	16	P-core 2.5GHz / E-core 1.8GHz	P-core 4.7GHz / E-core 3.5GHz	20MB	-
Core i5-14500	14 (6 P-core + 8 E-core)	20	P-core 2.6GHz / E-core 1.9GHz	P-core 5.0GHz / E-core 3.7GHz	24MB	Intel® UHD Graphics 770
Core i7-14700	20 (8 P-core + 12 E-core)	28	P-core 2.1GHz / E-core 1.5GHz	Max Turbo up to 5.4GHz / P-core 5.3GHz / E-core 4.2GHz	33MB	Intel® UHD Graphics 770
Intel® 300	2 (2 P-core + 0 E-core)	4	P-core 3.9GHz	-	6MB	Intel® UHD Graphics 710

### Operating System

#### Operating System\*\*

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- Windows® 11 DG Windows® 10 Pro 64
- Ubuntu Linux
- No preload operating system

### Graphics

#### Graphics\*\*\*[1]

Graphics	Type	Memory	Max Resolution	Connector	Key Features
Intel® UHD graphics 710	Integrated	Shared	4096x2160@30Hz(HDMI®), 2048x1536@50Hz(VGA), 4096x2304@60Hz(DP)	1x HDMI® 2.1 TMDS, 1x VGA, 1x DP 1.4a HBR2	DirectX® 12, OpenGL 4.5
Intel® UHD graphics 730	Integrated	Shared	4096x2160@30Hz(HDMI®), 2048x1536@50Hz(VGA), 4096x2304@60Hz(DP)	1x HDMI® 2.1 TMDS, 1x VGA, 1x DP 1.4a HBR2	DirectX® 12, OpenGL 4.5
Intel® UHD graphics 770	Integrated	Shared	4096x2160@30Hz(HDMI®), 2048x1536@50Hz(VGA), 4096x2304@60Hz(DP)	1x HDMI® 2.1 TMDS, 1x VGA, 1x DP 1.4a HBR2	DirectX® 12, OpenGL 4.5
Intel® Arc™ A310 LP Graphics	Discrete	4GB GDDR6	5120x2880@60Hz(DP)	2x DisplayPort™ 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).

## Monitor Support

### Monitor Support

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

## Chipset

### Chipset

Intel® B760 chipset

## Memory

### Max Memory<sup>[1]</sup>

Up to 64GB DDR5-5600<sup>[2]</sup>

### Memory Slots

Two DDR5 UDIMM slots, dual-channel capable

### Memory Type

- DDR5-4800
- DDR5-5200
- DDR5-5600

### Memory Protection

Non-ECC

Notes:

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

[2] 64GB memory is special bid only

## Storage

### Storage Support<sup>[1]</sup>

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

- 3.5" HDD up to 2TB
- M.2 SSD up to 1TB
- 2.5" HDD bay is only for customer self upgrade<sup>[2]</sup>

### 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	-	-
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.

[2] 2.5" HDD bay is optional part, only for customer self upgrade purpose and the hard drive is sold separately. Two onboard SATA ports support up to two drives of 2.5" HDD, 3.5" HDD and ODD.

## 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, 2W x1

**Power Supply****Power Supply\*\***

Power	Type	Efficiency	Key Features
260W	Fixed	90%	100-240V, 50-60Hz
310W	Fixed	92%	100-240V, 50-60Hz
380W	Fixed	92%	100-240V, 50-60Hz
180W	Fixed	85%	100-240V, 50-60Hz

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

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

**Mouse**

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

**Mechanical****Form Factor**

Tower (13.6L)

**Dimensions (WxDxH)<sup>[1]</sup>**

145 x 294 x 340 mm (5.71x 11.57 x 13.39 inches)

**Packaging Dimensions (WxDxH)**

240 x 395 x 530 mm (9.45 x 15.55 x 20.87 inches)

**Weight<sup>[2]</sup>**

Around 5.6 kg (12.35 lbs)

**Packaging Weight**

Around 7 kg (15.43 lbs)

**Case Color**

Luna grey (front bezel), raven black (chassis)

**Bays<sup>[3]</sup>**

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

**Expansion Slots**

- One PCIe® 3.0 x16, full-height, length ≤ 233.6mm, height ≤ 117.5mm
- One PCIe® 3.0 x1, full-height, (length ≤ 185mm, height ≤ 100mm) or (length ≤ 118mm, height ≤ 110mm)
- Two M.2 slots (one for WLAN, one for SSD)

**EOU**

(Optional) toolless chassis open (toolless chassis screw required)

**Cooling System (Fan & Cooler)**

(Optional) 1x rear system fan

**Others**

Supports Smart Power On

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**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] 2.5" HDD bay is optional part, only for customer self upgrade purpose and the hard drive is sold separately. Two onboard SATA ports support up to two drives of 2.5" HDD, 3.5" HDD and ODD.

## CONNECTIVITY

### Network

#### Onboard Ethernet

Gigabit Ethernet, Realtek® RTL8111K, 1x RJ-45, supports Wake-on-LAN

#### Optional Ethernet

No optional Ethernet

#### WLAN + Bluetooth®\*\*

- Realtek® Wi-Fi® 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Intel® Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 Card
- No WLAN and Bluetooth®

### Ports<sup>[1]</sup>

#### Front Ports

- 1x USB-C® (USB 5Gbps / USB 3.2 Gen 1), with data transfer and 15W charging
- 4x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x headphone / microphone combo jack (3.5mm)
- 1x microphone (3.5mm)

#### Rear Ports<sup>[2]</sup>

- 4x USB-A (Hi-Speed USB / USB 2.0), one supports Smart Power On
- 1x HDMI® 2.1 TMDS
- 1x DisplayPort™ 1.4a (HBR2)
- 1x VGA
- 1x Ethernet (RJ-45)
- 1x line-out (3.5mm)

#### Optional Rear Ports

- 1x parallel
- 2x serial
- 2x PS/2

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**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.

## SECURITY & PRIVACY

### Security

#### Security Chip

Discrete TPM 2.0, TCG certified

#### Physical Locks

- (Optional) Smart Cable Clip
- Kensington® Security Slot™
- Padlock Loop

**Chassis Intrusion Switch**

- Chassis intrusion switch
- No chassis intrusion switch

**BIOS Security**

- Administrator password
- Hard disk password
- Power-on password
- Absolute persistence module
- Boot sequence control
- Boot without keyboard and mouse
- Cover tamper detected
- Configuration change detection
- Individual USB port disablement
- Intel® BIOS guard
- Secure wipe
- Secure boot
- Smart USB protection (allows keyboard / mouse only, blocks all storage devices)
- More BIOS security features, please visit [BIOS Simulator](#)<sup>[1]</sup>

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**<sup>[1]</sup>

None

Notes:

[1] Intel® vPro® offers a superset of DASH's defined capabilities.

## SERVICE

### Warranty

<sup>[1]</sup>**Base Warranty**\*\*

- 1-year courier or carry-in service
- 1-year limited onsite service

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
- 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<sup>[1]</sup>

#### Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Silver Registered
- (Optional) EPEAT™ Gold Registered
- RoHS / WEEE / REACH
- TCO Certified 9.0

#### 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>.

### Other Certifications

#### Other Certifications

(Optional) TÜV Rheinland® Ultra Low Noise

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