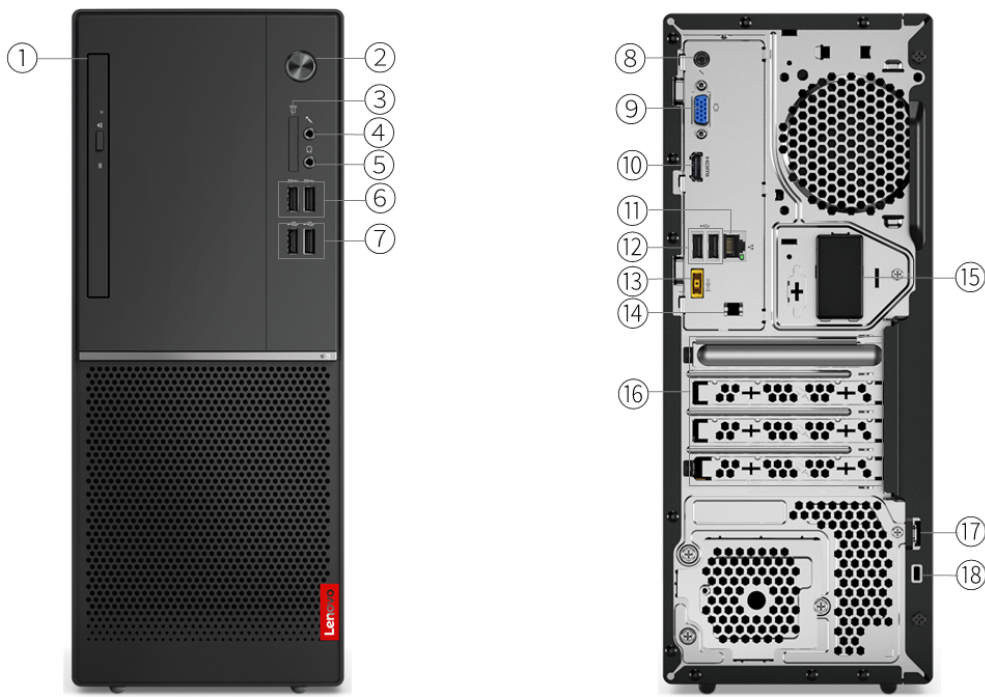# OVERVIEW

1. Optical drive *	10. HDMI 1.4
2. Power button	11. Ethernet (RJ-45)
3. Card reader *	12. 2x USB 2.0
4. Microphone (3.5mm)	13. Power connector
5. Headphone (3.5mm)	14. Power adapter cable loop
6. 2x USB 3.1 Gen 1	15. Wi-Fi antenna
7. 2x USB 2.0	16. Optional ports on expansion cards *
8. Line-out (3.5mm)	17. Padlock loop
9. VGA	18. Kensington Security Slot

Notes:
- Ports with * are only available on selected models
- More ports are available through the optional expansion cards (not shown on the sample product above)

PERFORMANCE

Processor

Processor Family

Intel® Celeron® or Intel Pentium® Processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Celeron J4005	2	2	2.0GHz	2.7GHz	4MB	DDR4-2400	Intel UHD Graphics 600
Pentium Silver J5005	4	4	1.5GHz	2.8GHz	4MB	DDR4-2400	Intel UHD Graphics 605

Operating System

Operating System

- Windows® 10 Home 64
- Windows 10 Pro 64
- No operating system

Graphics

Graphics[1]

Graphics	Type	Memory	Connector	Max Resolution	Key Features
Intel UHD Graphics 600	Integrated	Shared	1x HDMI® 1.4, 1x VGA	3840x2160@60Hz(HDMI), 2048x1536@50Hz(VGA)	DirectX® 12
Intel UHD Graphics 605	Integrated	Shared	1x HDMI 1.4, 1x VGA	3840x2160@60Hz(HDMI), 2048x1536@50Hz(VGA)	DirectX 12

Notes:

1. The information of integrated graphics are not applicable for the models without integrated graphics (for the details, please refer to processor section)

Monitor Support

Monitor Support

Supports up to 2 independent displays via onboard ports (VGA and HDMI)

Chipset

Chipset

Intel SoC (System on Chip) platform

Memory

Max Memory[1]

Up to 8GB DDR4-2400

Memory Slots

One DDR4 SO-DIMM slot

Memory Type

DDR4-2400

Memory Protection

Non-ECC

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 two drives, 1x 2.5″ SSD + 1x 3.5″ HDD

- 3.5″ HDD up to 2TB
- 2.5″ SSD up to 256GB

Storage Type

Disk Type	Interface	RPM	Security
2.5″ SATA HDD	SATA 6Gb/s	7.2K	-
2.5″ SATA SSD	SATA 6Gb/s	-	-

RAID

No support

Removable Storage

Optical

- 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, MMC plus)
- No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC662 codec

Power Supply

Power Supply

Power	Type	Efficiency	Key Features
65W	Adapter	85%	-
90W	Adapter	85%	-

DESIGN

Input Device

Keyboard

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

Mouse

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

Mechanical

Buttons

- Power button
- Optical drive eject button (ODD models only)

Form Factor

Tower (15L)

Dimensions (WxDxH)

145 x 275 x 360 mm (5.7 x 10.8 x 14.2 inches)

Weight

4.8 kg (10.58 lbs)

Case Color

Black

Bays

- 1x 2.5″ disk bay

- 1x 3.5″ disk bay
- 1x slim ODD bay

Expansion Slots

- One PCIe 3.0 x1, full height
- One PCIe 3.0 x16, full height
- Two M.2 slots (one for WLAN, one for SSD)

Stand

No stand

Mounting

None

CONNECTIVITY

Network

Onboard Ethernet

Gigabit Ethernet, Realtek RTL8111GN, 1x RJ45, supports Wake-on-LAN

Optional Ethernet

No optional Ethernet

WLAN + Bluetooth®

- Realtek RTL8821CE, 802.11ac Dual Band 1x1 Wi-Fi® + Bluetooth 4.0, M.2 card
- Intel Dual Band Wireless-AC 3165, 802.11ac Dual Band 1x1 Wi-Fi + Bluetooth 4.0, M.2 Card
- No WLAN and Bluetooth

Ports[1]

Front Ports

- 2x USB 2.0
- 2x USB 3.1 Gen 1
- 1x headphone (3.5mm)
- 1x microphone (3.5mm)

Optional Front Ports

1x card reader

Rear Ports[2]

- 2x USB 2.0
- 1x VGA
- 1x HDMI 1.4
- 1x Ethernet (RJ-45)
- 1x line-out (3.5mm)

Optional Rear Ports

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, formely USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s;
   USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formely 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

Monitor Cable

Monitor Cable

No monitor cable

SECURITY & PRIVACY

Security

Security Chip

No security chip

Physical Locks

Kensington® Security Slot

Chassis Intrusion Switch

No chassis intrusion switch

Fingerprint Reader

- Touch style fingerprint reader on mouse
- No fingerprint reader

BIOS Security

- Administrator password
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

MANAGEABILITY

System Management

System Management

None

SERVICE

Warranty

Base Warranty

- 1-year depot service
- 1-year limited onsite service
- 3-year depot service
- 3-year limited onsite service

ENVIRONMENTAL

Operating Environment

Temperature

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

Humidity

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

Altitude

- Operating: -15.2 m (-50 ft) to 3048 m (10,000 ft)
- Storage: -15.2 m (-50 ft) to 12192 m (40,000 ft)

ACCESSORIES

Bundled Accessories

Bundled Accessories

None

CERTIFICATIONS

Green Certifications

Green Certifications

- EPEAT™ Silver
- GREENGUARD®
- RoHS compliant