Lenovo PSREF
Product Specifications
Reference

OVERVIEW

1.	Optical drive *	6.	USB 3.2 Gen 1
2.	Kensington Security Slot	7.	USB 3.2 Gen 1
3.	Power connector	8.	Headphone / microphone combo jack (3.5mm)
4.	Ethernet (RJ-45)	9.	USB-C 3.2 Gen 1 (data transfer only)
5.	HDMI 1.4		

Notes:
- Items with * are only available on selected models

PERFORMANCE

Processor

Processor Family

Intel® Celeron®, Intel Pentium®, or 11th Generation Intel Core™ i3 / i5 / i7 Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
Celeron 6305	2	2	1.8GHz	-	4MB	Intel UHD Graphics
Core i3-1115G4	2	4	3.0GHz	4.1GHz	6MB	Intel UHD Graphics
Pentium Gold 7505	2	4	2.0GHz	3.5GHz	4MB	Intel UHD Graphics
Core i5-1135G7	4	8	2.4GHz	4.2GHz	8MB	Intel Iris® Xe Graphics
Core i7-1165G7	4	8	2.8GHz	4.7GHz	12MB	Intel Iris Xe Graphics

Operating System

Operating System**[1]

- Windows® 11 Pro
- Windows 11 Home
- Windows 11 Home in S mode
- Windows 11 Home Single Language
- Windows 11 Home Single Language in S mode
- Windows 10 Pro 64
- Windows 10 Home 64
- Windows 10 Home 64 Single Language
- Windows 10 Home Single Language in S mode
- Windows 10 Home in S mode
- 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, MIPI computer vision camera, WWAN, Human Presence Detection, etc.

Graphics

Graphics**[1]

Graphics	Type	Memory	Key Features
Intel UHD Graphics	Integrated	Shared	DirectX® 12.1
Intel Iris Xe Graphics	Integrated	Shared	DirectX 12.1

Notes:

1. Intel Iris Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel Iris Xe Graphics will function as Intel UHD Graphics.

Monitor Support

Monitor Support

Supports up to 2 independent displays (native display and 1 external monitor via HDMI®)
• HDMI supports up to 3840x2160@30Hz

Chipset

Chipset

Intel SoC (System on Chip) platform

Memory

Max Memory[1]

- Up to 8GB (4GB soldered + 4GB SO-DIMM) DDR4-2933 offering
- Up to 16GB (8GB soldered + 8GB SO-DIMM) DDR4-2933 offering

Memory Slots

One memory soldered to systemboard, one DDR4 SO-DIMM slot, dual-channel capable

Memory Type

DDR4-2933

Notes:

1 . Intel i5 or i7 model: Up to 12GB (4GB soldered + 8GB SO-DIMM) DDR4-2933 offering

Storage

Storage Support[1]

Up to two drives, 1x 2.5″ HDD + 1x M.2 SSD
• 2.5″ HDD up to 2TB
• M.2 2242 SSD up to 512GB
• M.2 2280 SSD up to 1TB

Storage Type***

Disk Type	Interface	RPM	Security
2.5″ SATA HDD	SATA 6Gb/s	5.4K	-
M.2 2242 SSD	PCIe® NVMe®, PCIe 3.0 x4	-	-
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	-

Notes:

1 . The storage capacity supported is based on the test results with current Lenovo® storage offerings. The system may support larger storage as the technology develops.

Removable Storage

Optical

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

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio

Speakers

Stereo speakers, 1.5W x2, Dolby® Audio™

Microphone

Single microphone

Camera**

• 0.3-megapixel, with privacy shutter, fixed focus
• HD 720p, with privacy shutter, fixed focus

Battery

Battery

Integrated Li-Polymer 36Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Max Battery Life[1]

MobileMark® 2018: 6.5 hr

Notes:

1 . All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, MobileMark 25, JEITA 2.0, continuous 1080p video playback (with 150nits brightness and default volume level) or Google Power Load Test (PLT) battery-life benchmark tests. Actual battery life will vary depending on many factors such as product configuration and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

Power Adapter

Power Adapter

65W round tip (2-pin, wall-mount) AC adapter, 100-240V, 50-60Hz

DESIGN

Display

Display**[1][2]

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio
15.6″	HD (1366x768)	None	TN	220 nits	Anti-glare	16:9
15.6″	FHD (1920x1080)	None	TN	220 nits	Anti-glare	16:9
15.6″	FHD (1920x1080)	None	IPS	250 nits	Anti-glare	16:9

Touchscreen

Non-touch

Notes:

1. California Electronic Waste Recycling Fee In California USA, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, please go to https://www.calrecycle.ca.gov/Electronics/Consumer
2. IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

Input Device

Keyboard

6-row, multimedia Fn keys, numeric keypad

Keyboard Backlight

Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 69 x 104 mm (2.72 x 4.09 inches)

Mechanical

Dimensions (WxDxH)[1]

363 x 254.6 x 22.9 mm (14.29 x 10.02 x 0.9 inches)

Weight[2]

Around 2.2 kg (4.8 lbs)

Case Color**

- Blizzard white
- Platinum grey

Surface Treatment

IMR (in-mold decoration by roller)

Case Material

PC-ABS (top), PC-ABS (bottom)

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

Ethernet

Gigabit Ethernet

WLAN + Bluetooth®[1]

802.11ac 2x2 Wi-Fi® + Bluetooth 5.0, M.2 card

Notes:

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

Ports[1]

Standard Ports

- 2x USB 3.2 Gen 1
- 1x USB-C® 3.2 Gen 1 (support data transfer only)
- 1x HDMI 1.4
- 1x Ethernet (RJ-45)
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Power connector

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

Firmware TPM 2.0 integrated in SoC

Physical Locks

Kensington® Security Slot™, 3 x 7 mm

Fingerprint Reader

No fingerprint reader

BIOS Security

- Administrator password
- Power-on password
- Hard disk password

Other Security

Camera privacy shutter

SERVICE

Warranty[1]

Base Warranty**

- 1-year courier or carry-in service
- 1-year courier or carry-in with 2-year system board service (Korea only)
- 2-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) courier or carry-in 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://pcsupport.lenovo.com/warranty.

ENVIRONMENTAL

Operating Environment

Temperature[1]

* At altitudes up to 2438 m (8,000 ft)
  - Operating: 5°C to 35°C (41°F to 95°F)
  - Storage: 5°C to 43°C (41°F to 109°F)
* At altitudes above 2438 m (8,000 ft)
  - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Humidity

* Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
* Storage: 5% to 95% at wet-bulb temperature 27°C (81°F)

Altitude

Maximum altitude (without pressurization): 3048 m (10,000 ft)

Notes:

1 . When you charge the battery, its temperature must be no lower than 10°C (50°F).

CERTIFICATIONS

Green Certifications[1]

Green Certifications

* ErP Lot 3
* RoHS compliant

Notes:

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

* 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.

* Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. LENOVO PROVIDES THIS PUBLICATION "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore this disclaimer may not apply to you.

* The specifications on this page may not be available in all regions, and may be changed or updated without notice.