

PERFORMANCE

Processor

Processor Family

AMD Athlon™, AMD A6 / A10 / A12, or AMD Ryzen™ 3 / 5 Processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
AMD Athlon 200GE	2	4	3.2GHz	-	1MB L2 / 4MB L3	DDR4-2666	AMD Radeon™ Vega 3 Graphics
AMD Athlon PRO 200GE	2	4	3.2GHz	-	1MB L2 / 4MB L3	DDR4-2666	AMD Radeon Vega 3 Graphics
AMD PRO A6-8570E	2	2	3.0GHz	3.4GHz	1MB L2	DDR4-2400	AMD Radeon R5 Graphics
AMD PRO A6-9500E	2	2	3.0GHz	3.4GHz	1MB L2	DDR4-2400	AMD Radeon R5 Graphics
AMD PRO A10-8770E	4	4	2.8GHz	3.5GHz	2MB L2	DDR4-2400	AMD Radeon R7 Graphics
AMD PRO A10-9700E	4	4	3.0GHz	3.5GHz	2MB L2	DDR4-2400	AMD Radeon R7 Graphics
AMD PRO A12-8870E	4	4	2.9GHz	3.8GHz	2MB L2	DDR4-2400	AMD Radeon R7 Graphics
AMD PRO A12-9800E	4	4	3.1GHz	3.8GHz	2MB L2	DDR4-2400	AMD Radeon R7 Graphics
AMD Ryzen 3 2200GE	4	4	3.2GHz	3.6GHz	2MB L2 / 4MB L3	DDR4-2933	AMD Radeon Vega 8 Graphics
AMD Ryzen 3 PRO 2200GE	4	4	3.2GHz	3.6GHz	2MB L2 / 4MB L3	DDR4-2933	AMD Radeon Vega 8 Graphics
AMD Ryzen 5 2400GE	4	8	3.2GHz	3.8GHz	2MB L2 / 4MB L3	DDR4-2933	AMD Radeon RX Vega 11 Graphics
AMD Ryzen 5 PRO 2400GE	4	8	3.2GHz	3.8GHz	2MB L2 / 4MB L3	DDR4-2933	AMD Radeon Vega 11 Graphics

Operating System

Operating System

- Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
- Windows 10 Pro 64
- Windows 10 Home 64
- Ubuntu Linux
- No operating system

Graphics

Graphics^[2]

Graphics	Type	Memory	Connector	Max Resolution	Key Features
AMD Radeon R5 Graphics	Integrated	Shared	2x DisplayPort™, 1x optional port (VGA / 3rd DP / HDMI®)	4096x2160@30Hz(HDMI), 4096x2160@60Hz(DP), 1920x1200@60Hz(VGA)	DirectX® 12
AMD Radeon R7 Graphics	Integrated	Shared	2x DisplayPort, 1x optional port (VGA / 3rd DP / HDMI)	4096x2160@30Hz(HDMI), 4096x2160@60Hz(DP), 1920x1200@60Hz(VGA)	DirectX 12
AMD Radeon Vega 3 Graphics	Integrated	Shared	2x DisplayPort, 1x optional port (VGA / 3rd DP / HDMI)	4096x2160@30Hz(HDMI), 4096x2160@60Hz(DP), 1920x1200@60Hz(VGA)	DirectX 12

AMD Radeon Vega 8 Graphics	Integrated	Shared	2x DisplayPort, 1x optional port (VGA / 3rd DP / HDMI)	4096x2160@30Hz(HDMI), 4096x2160@60Hz(DP), 1920x1200@60Hz(VGA)	DirectX 12
AMD Radeon RX Vega 11 Graphics	Integrated	Shared	2x DisplayPort, 1x optional port (VGA / 3rd DP / HDMI)	4096x2160@30Hz(HDMI), 4096x2160@60Hz(DP), 1920x1200@60Hz(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)
2. Supports maximum of 2 concurrent HDMI/DVI displays when using HDMI port or DP to DVI/HDMI dongles, and Athlon / Athlon PRO only support 2 displays

Monitor Support**Monitor Support**^[1]

Supports up to 3 independent displays via onboard ports (2x DisplayPort + 1x optional port [VGA / 3rd DP / HDMI])

Notes:

1. Supports maximum of 2 concurrent HDMI/DVI displays when using HDMI port or DP to DVI/HDMI dongles, and Athlon / Athlon PRO only support 2 displays

Chipset**Chipset**

AMD B300 chipset

Memory**Max Memory**^[1]

Up to 32GB DDR4-2666

Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type^[2]

DDR4-2666

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.
2. Installed memory is actually 2666MHz, but run at 2400MHz due to the memory support capability of processor

Storage**Storage Support**

Up to two drives, 1x 2.5" HDD/SSD + 1x M.2 2242/2280 SSD

- 2.5" HDD up to 1TB
- 2.5" SSD up to 128GB
- M.2 SSD up to 1TB

Storage Type

Disk Type	Interface	RPM	Security
2.5" SATA HDD	SATA 6Gb/s	5.4K	-
2.5" SATA HDD	SATA 6Gb/s	7.2K	-
2.5" SATA SSD	SATA 6Gb/s	-	-
M.2 2242 SSD	PCIe NVMe, PCIe 3.0 x2	-	-
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	Opal
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	-

RAID

No support

Removable Storage

Optical

- DVD-ROM, slim (9.0mm), via USB external ODD box
- DVD burner (DVD±RW), slim (9.0mm), via USB external ODD box
- None

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC233VB2 codec

Speakers

Single speaker, 1.5W x1

Power Supply

Power Supply

Power	Type	Efficiency	Key Features
65W	Adapter	88%	Autosensing
No power supply	-	-	-

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
- No mouse

Mechanical

Form Factor

Tiny (1L)

Dimensions (WxDxH)

Models	Dimensions
Tiny only	179 x 183 x 34.5 / 37 mm with rubber feet (7.05 x 7.2 x 1.36 / 1.5 inches with rubber feet)
With VESA mount & ODD box	188.4 x 185.38 x 63 mm (7.42 x 7.30 x 2.48 inches)

Weight

Models	Weight
Tiny only	1.32 kg (2.91 lbs)
With VESA mount & ODD box	1.66 kg (3.66 lbs)

Case Color

Black

Bays

1x 2.5" disk bay

Expansion Slots

Two M.2 slots (one for WLAN, one for SSD)

EOU

(Optional) toolless chassis open (toolless chassis screw required) and toolless M.2 SSD, HDD, memory assembly / removal

Stand

- Vertical stand
- No stand

Mounting

- VESA mount bracket kit, supports VESA mount 75mm and 100mm
- None

Others

- (Optional) Dust filter
- (Optional) Power adapter cage

CONNECTIVITY

Network

Onboard Ethernet

Gigabit Ethernet, Realtek RTL8111EPV, 1x RJ45, supports Wake-on-LAN

Optional Ethernet

No optional Ethernet

WLAN + Bluetooth®

- Realtek RTL8821CE, 802.11ac Dual Band 1x1 Wi-Fi® + Bluetooth 4.2, M.2 card
- Realtek RTL8822BE, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 4.2, M.2 card
- Qualcomm® QCA6174A, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 4.2, M.2 card
- Qualcomm QCA9377, 802.11ac Dual Band 1x1 Wi-Fi + Bluetooth 4.2, M.2 card
- Intel® Wireless-AC 9260, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- No WLAN and Bluetooth

Ports^[1]**Front Ports**

- 1x USB 3.1 Gen 1
- 1x USB 3.1 Gen 1 (Always On and fast charge)
- 1x headphone / microphone combo jack (3.5mm)
- 1x microphone (3.5mm)

Optional Front Ports

None

Rear Ports^[2]

- 3x USB 2.0
- 1x USB 3.1 Gen 1
- 2x DisplayPort
- 1x Ethernet (RJ-45)
- 1x headphone (3.5mm)

Optional Rear Ports^[3]

Optional Port 1 (One of VGA / 3rd DisplayPort / HDMI / 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;
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

3. Not support VGA, 3rd DP, HDMI for the models with Athlon / Athlon PRO

Monitor Cable

Monitor Cable

- DP to DVI-D dongle
- DP to HDMI 1.4 dongle
- DP to VGA cable (1.5M)
- DP to VGA dongle
- No monitor cable

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Physical Locks

Kensington® Security Slot

Chassis Intrusion Switch

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
- Smart USB protection (allows keyboard / mouse only, blocks all storage devices)
- Individual USB port disablement

MANAGEABILITY

System Management

System Management

DASH 1.0 / 1.1

SERVICE

Warranty

Base Warranty

- 1-year depot service
- 1-year limited onsite service
- 3-year depot service
- 3-year limited onsite service
- No base warranty

ENVIRONMENTAL

Operating Environment

Temperature

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

CERTIFICATIONS

Green Certifications

Green Certifications

- ERP Lot 3
- RoHS compliant

Other Certifications

Mil-Spec Test

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

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