

## PERFORMANCE

### Processor

#### Processor Family

AMD 3000, AMD Athlon™ or AMD Ryzen™ 3 / 5 / 7 series processor

#### Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
AMD 3020e	2	2	1.2GHz	2.6GHz	1MB L2 / 4MB L3	DDR4-2400	AMD Radeon™ Graphics
AMD Athlon 300U	2	4	2.4GHz	3.3GHz	1MB L2 / 4MB L3	DDR4-2400	AMD Radeon Vega 3 Graphics
AMD Ryzen 3 3200U	2	4	2.6GHz	3.5GHz	1MB L2 / 4MB L3	DDR4-2400	AMD Radeon Vega 3 Graphics
AMD Ryzen 5 3500U	4	8	2.1GHz	3.7GHz	2MB L2 / 4MB L3	DDR4-2400	AMD Radeon Vega 8 Graphics
AMD Ryzen 7 3700U	4	8	2.3GHz	4.0GHz	2MB L2 / 4MB L3	DDR4-2400	AMD Radeon RX Vega 10 Graphics

### Operating System

- Windows® 10 Home 64
- Windows 10 Home in S mode
- Windows 10 Pro 64
- FreeDOS

### Graphics

Graphics	Type	Memory	Key Features
AMD Radeon Graphics	Integrated	Shared	DirectX® 12
AMD Radeon Vega 3 Graphics	Integrated	Shared	DirectX 12
AMD Radeon Vega 8 Graphics	Integrated	Shared	DirectX 12
AMD Radeon RX Vega 10 Graphics	Integrated	Shared	DirectX 12

### Monitor Support

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

### Chipset

AMD SoC (System on Chip) platform

### Memory

#### Memory Type

DDR4-2400

#### Memory Slots

- AMD 3020e models: One DDR4 SO-DIMM slot
- Athlon or Ryzen models: One memory soldered to systemboard, one DDR4 SO-DIMM slot, dual-channel capable

#### Max Memory

- AMD 3020e models: Up to 8GB (8GB SO-DIMM) DDR4-2400 offering
- Athlon or Ryzen models: Up to 12GB (4GB soldered + 8GB SO-DIMM) DDR4-2400 offering

#### Notes:

- 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 2 drives, 1x 2.5" HDD + 1x M.2 2242 SSD or 1x 2.5" HDD + 1x M.2 2280 SSD

- 2.5" HDD up to 2TB
- M.2 2242 SSD up to 512GB
- M.2 2280 SSD up to 512GB

**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 x2	-	-
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	-

**Removable Storage****Optical**

None

**Card Reader**

4-in-1 card reader (SD, SDHC, SDXC, MMC)

**Multi-Media****Audio Chip**

High Definition (HD) Audio

**Speakers**

Stereo speakers, 1.5W x2, Dolby® Audio™

**Microphone**

Single microphone

**Camera**

0.3-megapixel, fixed focus

**Battery****Battery**

- Integrated Li-Polymer 30Wh battery
- Integrated Li-Polymer 35Wh battery

**Max Battery Life**

- MobileMark® 2014: 4 hr (30Wh)
- MobileMark 2014: 4.5 hr (35Wh)

**Notes:**

- All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, and/or JEITA 2.0 battery-life benchmark tests. Actual battery life will vary and depends 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**

65W round tip (Wall Mount) AC adapter

**DESIGN****Display****Display**

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
15.6"	HD (1366x768)	None	TN	220 nits	Anti-glare	16:9	-	-	-	-
15.6"	FHD	None	TN	220 nits	Anti-	16:9	-	-	-	-

	(1920x1080)				glare					
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## Notes:

- California Electronic Waste Recycling Fee  
In California, 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, go to <https://www.calrecycle.ca.gov/Electronics/Consumer>

**Touchscreen**

Non-touch

**Input Device****Keyboard**

6-row, multimedia Fn keys, numeric keypad

**Keyboard Backlight**

Not support

**Touchpad**

Buttonless Mylar® surface multi-touch touchpad

**Mechanical****Dimensions (WxDxH)**

362.2 x 251.5 x 19.9 mm (14.3 x 10 x 0.8 inches)

**Weight**

1.85 kg (4.1 lbs)

**Case Color**

- Granite black
- Platinum grey

**Surface Treatment**

- IMR
- Texture

**Case Material**

PC + ABS (top), PC + ABS (bottom)

**CONNECTIVITY****Network****WLAN + Bluetooth™**

802.11ac 1x1 Wi-Fi + Bluetooth 4.2, M.2 card

**Ports****Standard Ports**

- 1x USB 2.0
- 2x USB 3.1 Gen 1
- 1x HDMI 1.4b
- 1x card reader
- 1x headphone / microphone combo jack (3.5mm)
- 1x power connector

## Notes:

- Depending on many factors, actual data transfer speed may be lower than theoretical speed

**SECURITY & PRIVACY****Security****Security Chip**

Firmware TPM 2.0 integrated in chipset

### **Fingerprint Reader**

No fingerprint reader

### **BIOS Security**

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

## **SERVICE**

### **Warranty**

#### **Base Warranty**

- 1-year mail-in service
- 1-year depot service
- 2-year (1-yr battery) depot service

## **CERTIFICATIONS**

### **Green Certifications**

- ENERGY STAR® 8.0
- ErP Lot 3
- RoHS compliant



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