

## Informacije o proizvodu (EN)

LENOVO laptop ThinkPad X9-15 G1 Aura U7/32/1TB/W11P

# Lenovo

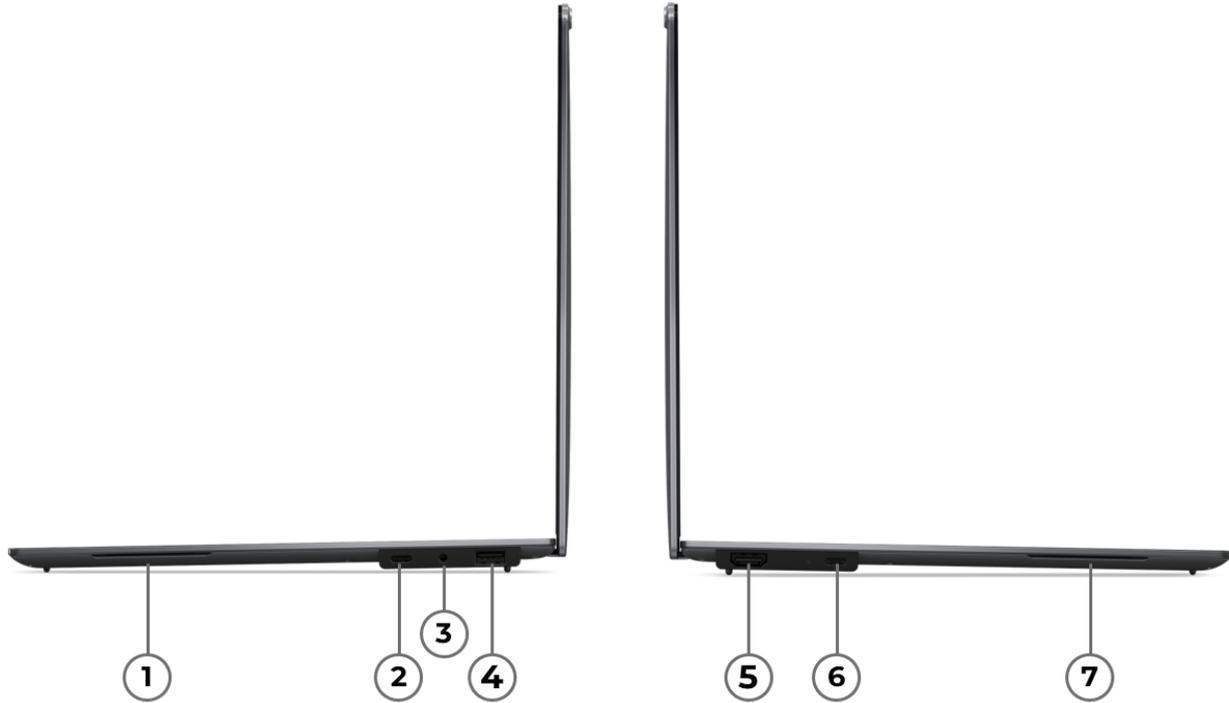


Tehnoteka je online destinacija za upoređivanje cena i karakteristika bele tehnike, potrošačke elektronike i IT uređaja kod trgovinskih lanaca i internet prodavnica u Srbiji. Naša stranica vam omogućava da istražite najnovije informacije, detaljne karakteristike i konkurentne cene proizvoda.

Posetite nas i uživajte u ekskluzivnom iskustvu pametne kupovine klikom na link:

<https://tehnoteka.rs/p/lenovo-laptop-thinkpad-x9-15-g1-aura-u7321tbw11p-akcija-cena/>

## OVERVIEW



1. Speaker	5. HDMI
2. Thunderbolt 4	6. Thunderbolt 4
3. Headphone / microphone combo jack (3.5mm)	7. Speaker
4. USB-A (USB 10Gbps), Always On	

## PERFORMANCE

### Processor

#### Processor Family

Intel® V Series Core Ultra 5 / 7 Processor (Series 2)

#### Processor\*\*

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Overall TOPS
Core Ultra 5 226V	8 (4 P-core + 4 LP E-core)	8	P-core 2.1GHz / LP E-core 2.1GHz	P-core 4.5GHz / LP E-core 3.5GHz	8MB Intel® Smart Cache	Intel® Arc™ Graphics 130V, up to 53 TOPS	Intel® AI Boost, up to 40 TOPS	Up to 97 TOPS
Core Ultra 5 228V	8 (4 P-core + 4 LP E-core)	8	P-core 2.1GHz / LP E-core 2.1GHz	P-core 4.5GHz / LP E-core 3.5GHz	8MB Intel® Smart Cache	Intel® Arc™ Graphics 130V, up to 53 TOPS	Intel® AI Boost, up to 40 TOPS	Up to 97 TOPS
Core Ultra 5 238V	8 (4 P-core + 4 LP E-core)	8	P-core 2.1GHz / LP E-core 2.1GHz	P-core 4.7GHz / LP E-core 3.5GHz	8MB Intel® Smart Cache	Intel® Arc™ Graphics 130V, up to 53 TOPS	Intel® AI Boost, up to 40 TOPS	Up to 97 TOPS
Core Ultra 7 258V	8 (4 P-core + 4 LP E-core)	8	P-core 2.2GHz / LP E-core 2.2GHz	P-core 4.8GHz / LP E-core 3.7GHz	12MB Intel® Smart Cache	Intel® Arc™ Graphics 140V, up to 64 TOPS	Intel® AI Boost, up to 47 TOPS	Up to 115 TOPS
Core Ultra 7 268V	8 (4 P-core + 4 LP E-core)	8	P-core 2.2GHz / LP E-core 2.2GHz	P-core 5.0GHz / LP E-core 3.7GHz	12MB Intel® Smart Cache	Intel® Arc™ Graphics 140V, up to 66 TOPS	Intel® AI Boost, up to 48 TOPS	Up to 118 TOPS

### AI (Artificial Intelligence)

#### AI PC Category

Copilot+ PC<sup>[1]</sup>

#### NPU

Integrated Intel® AI Boost, up to 48 TOPS

Notes:

[1] Copilot+ PCs have at least 16GB RAM, 256GB storage, and a NPU that runs 40+ TOPs to run the latest AI tools build-in latest Windows® 11 to accelerate productivity and creativity.

### Operating System

#### Operating System\*\*

- Windows® 11 Pro
- Windows® 11 Home
- Ubuntu Linux<sup>[1]</sup>
- Linux<sup>[2]</sup>
- No preload operating system

Notes:

[1], [2] 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\*\*

Graphics	Type	Memory	Key Features
Intel® Arc™ Graphics 130V	Integrated	Shared	DirectX® 12.2
Intel® Arc™ Graphics 140V	Integrated	Shared	DirectX® 12.2

### Monitor Support

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

Supports up to 3 independent displays (native display and 2 external monitors via HDMI® and Thunderbolt™)

- HDMI® supports up to 4K@60Hz
- Thunderbolt™ supports up to 8K@60Hz<sup>[2]</sup>

Notes:

[1] Refresh rates >60hz also supported, however max resolution will be limited.

[2] 8K resolution support needs 2 display pipes. That is, simultaneous display number will "-1" when 8K resolution displayed.

## Chipset

### Chipset

Intel® SoC (System on Chip) platform

## Memory

### Max Memory

- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable

### Memory Slots

Memory soldered to systemboard, no slots, dual-channel

### Memory Type

LPDDR5x-8533, MoP (Memory on Package) memory

## Storage

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

One drive, up to 2TB M.2 2242 SSD

### Storage Slot<sup>[2]</sup>

One M.2 2242 PCIe® 4.0 x4 slot

### Storage Type

Disk Type	Interface	Offering	Security
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB / 2TB	Opal 2.0

Notes:

[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.

[2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.

PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);

PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);

PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

## Removable Storage

### Card Reader

No card reader

## Multi-Media

### Audio Chip

SoundWire®, Cirrus Logic® CS42L43 codec

### Speakers

Stereo speakers, 2W x2 woofers and 2W x2 tweeters, Dolby Atmos®

### Microphone

Dual-microphone array with smart noise-cancelling

### Camera

UHD 8.0MP with large sensor + IR discrete, with E-shutter, ToF sensor, MIPI, fixed focus

## Sensor

**Sensors**

- Color sensor
- ToF sensor

**Battery**

**Battery**

80Wh Rechargeable Li-ion Battery

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

Configuration 1

MobileMark® 30: up to 21.18 hr @250nits  
JEITA-BAT 3.0 (Video/Idle): up to 26.85 hr / 26.88 hr @200nits  
Local video playback: up to 29.55 hr @150nits

Configuration 2

MobileMark® 30: up to 21 hr @250nits  
JEITA-BAT 3.0 (Video/Idle): up to 24.58 hr / 27.42 hr @200nits  
Local video playback: up to 29.72 hr @150nits

Configuration 3

MobileMark® 30: up to 20.11 hr @250nits  
JEITA-BAT 3.0 (Video/Idle): up to 22.01 hr / 23.81 hr @200nits  
Local video playback: up to 28.42 hr @150nits

Notes:

- [1] Configuration 1: WQXGA+ (non-touch), Intel® Ultra 5 226V, 16GB LPDDR5x, Win 11, 80Wh battery, best power efficiency power mode
- Configuration 2: WQXGA+ (touch), Intel® Ultra 7 258V, 32GB LPDDR5x, Win 11, 80Wh battery, best power efficiency power mode
- Configuration 3: WQXGA+ (touch), Intel® Ultra 7 268V, 32GB LPDDR5x, Win 11, 80Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using [MobileMark® 30](#), JEITA 3.0, continuous 1080p local video playback (using default Media Player in Fullscreen mode with 150nits brightness and default volume level), or Google Power Load Test (PLT) battery-life benchmark tests.

Actual battery life will vary and depends on many factors such as product configuration, software, wireless functionality, power management settings, and screen brightness.

The maximum capacity of the battery will decrease with time, ambient temperature and use. Refer to [Microsoft® link](#) for more information about the Windows® Performance power slider.

**Power Adapter**

**Power Adapter\*\*<sup>[1]</sup>**

- 65W USB-C® nano GaN (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® nano GaN (3-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim GaN (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim GaN (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

- [1] AC adapter offerings depend on the country.

**DESIGN**

**Display**

**Display\*\***

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
15.3"	2.8K WQXGA+	Multi-touch	OLED	500nits	Anti-reflection,	16:10	100,000:1	100% DCI-	30-120Hz	85° / 85° / 85° / 85°	Eye Comfort Certification

	(2880x1800)				anti-fingerprint			P3	VRR		(5-star), Dolby Vision®, DisplayHDR™ True Black 600, X-Rite®
15.3"	2.8K WQXGA+ (2880x1800)	Non-touch	OLED	500nits	Anti-reflection, anti-fingerprint	16:10	100,000:1	100% DCI-P3	30-120Hz VRR	85° / 85° / 85° / 85°	Eye Comfort Certification (5-star), Dolby Vision®, DisplayHDR™ True Black 600, X-Rite®

**Touchscreen**

- Add-on Film Touch, supports 10-point touch
- Non-touch

**Screen-to-Body Ratio**

91%

**Color Calibration**

X-Rite® factory color calibration

**Input Device**

**Pen**

No support

**Keyboard**

6-row, spill-resistant, multimedia Fn keys, key travel 1.35mm / 1.2mm (Fn row), Copilot key

**Keyboard Backlight**

LED backlight

**Touchpad\*\***

- Buttonless glass surface multi-touch Trackpad, supports Precision TouchPad (PTP), 80 x 135 mm (3.15 x 5.31 inches)
- Buttonless glass surface multi-touch Haptic Touchpad, supports Precision TouchPad (PTP), 80 x 135 mm (3.15 x 5.31 inches)

**Mechanical**

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

339.55 x 228.5 x 12.9 mm (13.37 x 9.0 x 0.51 inches)

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

Starting at 1.4 kg (3.08 lbs)

**Case Color\*\***

- Grey
- Grey, FIFA® Edition
- White

**Case Material**

Aluminium (top), aluminium (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**

**WLAN + Bluetooth®\*\*<sup>[1]</sup>**

- Intel® Wi-Fi® 7 BE201, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4

- Intel® Wi-Fi® 7 BE201, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, Intel® vPro® technology support<sup>[2]</sup>

## WWAN

No support

## SIM Card

No physical SIM card inbox

## Ethernet

No onboard Ethernet<sup>[3]</sup>

## NFC

No support

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Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[2] Intel® vPro® platform requires the hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. For detailed vPro® support information, please refer to the System Management section.

[3] Ethernet support via optional Lenovo® USB-C® to Ethernet Adapter.

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

### Standard Ports

- 1x USB-A (USB 10Gbps / USB 3.2 Gen 2), Always On
- 2x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 15-65W and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)

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Notes:

[1] The transfer speed of the 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.

## Docking

### Docking

Various docking solutions supported via Thunderbolt™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkPad® X9-15 Gen 1 Aura Edition](#)

## SECURITY & PRIVACY

### Security

#### ThinkShield

ThinkShield is a comprehensive security solution that encompasses hardware, software, and supply chain components. For more details, visit [here](#)

#### Security Chip

Discrete TPM 2.0, TCG certified, FIPS 140-2 certified

#### Smart Card Reader

No smart card reader

#### Fingerprint Reader

Touch style fingerprint reader integrated in power button, match-on-chip

#### BIOS Security

- NVMe® password
- Power-on password
- Supervisor password
- System management password
- Certificate-based BIOS authentication
- FIDO (Fast Identity Online) authentication
- Self-healing BIOS

- More BIOS security features, please visit [BIOS Simulator](#)<sup>[1]</sup>

## Other Security

- ToF Human Presence Detection
- E-shutter
- IR camera for Windows® Hello (facial recognition)

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>

- Intel® vPro® Enterprise<sup>[2]</sup>
- Non-vPro®

Notes:

[1] Intel® vPro® platform require an eligible Intel® processor, a supported operating system, Intel® LAN and/or WLAN silicon, firmware enhancements, and other hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. See [Intel® vPro® Platform](#) for details.

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

## SERVICE

### Warranty

#### Base Warranty\*\*

- 1-year courier or carry-in service
- 1-year courier or carry-in with 2-year system board service (Korea only)
- 1-year limited onsite service
- 3-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) limited onsite service
- No base warranty

## ACCESSORIES

### Bundled Accessories

#### Bundled Accessories<sup>[1]</sup>

- Lenovo® USB-C® to Ethernet Adapter (1Gbps)
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkPad® X9-15 Gen 1 Aura Edition](#).

## OPERATING REQUIREMENTS

### Operating Environment

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

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping package: -20°C (-4°F) to 60°C (140°F)
- Storage without package: 5°C (41°F) to 43°C (109°F)

#### Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage and transportation: 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).

## ENVIRONMENTAL

### Sustainability

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

50% recycled aluminium on top cover  
50% recycled aluminium on keyboard frame  
50% recycled aluminium on bottom cover  
90% PCC recycled plastic used in the battery pack enclosure  
100% recycled cobalt used in the 80Wh battery  
85% PCC recycled plastic used in key caps  
90% PCC recycled plastic used in speaker enclosure  
30% recycled REE (Rare Earth) in speaker magnet  
90% PCC recycled plastic used in standard 65W adapter  
FSC certified plastic-free packaging (except for Japan models with white case)  
Bamboo+sugarcane fiber standard/retail packaging (except for Japan models with white case)  
Paper Based Giftbox (Japan models with white case)

Notes:

[1] PCC: Post Consumer Content, recycled materials from customers.

## CERTIFICATIONS

### Green Certifications<sup>[1]</sup>

#### Green Certifications<sup>[2]</sup>

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered<sup>[3]</sup>
- ErP Lot 6/26
- RoHS compliant
- TCO Certified, generation 10

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>.

[2] EPEAT™ registration and ENERGY STAR® certification are optional and only available on the models with preloaded OS. Please visit [epeat.net](https://epeat.net) and [energystar.gov](https://energystar.gov) for more information.

[3] EPEAT™ is registered where applicable, please visit [epeat.net](https://epeat.net) for registration status by country.

### Other Certifications

#### Mil-Spec Test

MIL-STD-810H military test passed

#### Other Certifications

- (Optional) Intel® Evo™ Platform
- Eyesafe® Certified 2.0
- TÜV Rheinland® Eye Comfort Certification (5-star)

• 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.

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Za najnovije informacije o ceni, dostupnim akcijama i tehničkim karakteristikama proizvoda koji se pominje u ovom dokumentu, molimo posetite našu stranicu klikom na sledeći link:

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