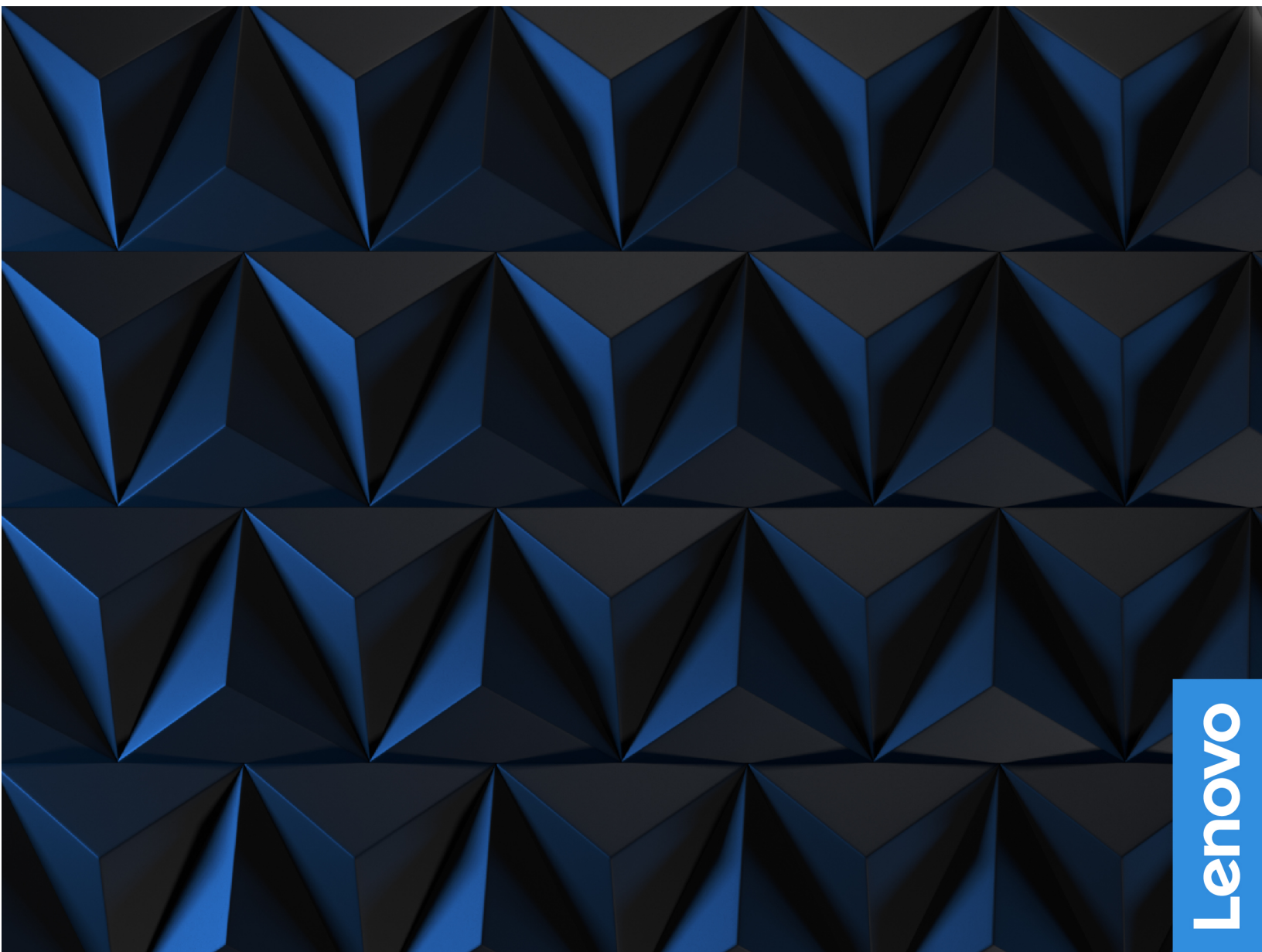


# User Guide



Lenovo

Lenovo Legion 9i (16", 8)

## **Read this first**

Before using this documentation and the product it supports, ensure that you read and understand the following:

- [Generic Safety and Compliance Notices](#)
- *Safety and Warranty Guide*
- *Setup Guide*

**First Edition (July 2023)**

**© Copyright Lenovo 2023.**

LIMITED AND RESTRICTED RIGHTS NOTICE: If data or software is delivered pursuant to a General Services Administration "GSA" contract, use, reproduction, or disclosure is subject to restrictions set forth in Contract No. GS-35F-05925.

---

# Contents

<b>About this guide . . . . .</b>	<b>.iii</b>
-----------------------------------	-------------

<b>Meet your PC. . . . .</b>	<b>1</b>
------------------------------	----------

Front view . . . . .	1
Power light . . . . .	1
Battery charging light . . . . .	2
Multi-purpose USB Type-C® connector. . . . .	2
Left view . . . . .	3

Right view . . . . .	4
USB Type-C® connector . . . . .	4
Specifications . . . . .	5
Statement on USB transfer rate . . . . .	6
Operating environment . . . . .	7

<b>Appendix A. Notices and trademarks. . . . .</b>	<b>9</b>
--	----------



---

## About this guide

- This guide applies to Lenovo product model(s) listed below. Illustrations in this guide may look slightly different from your product model.

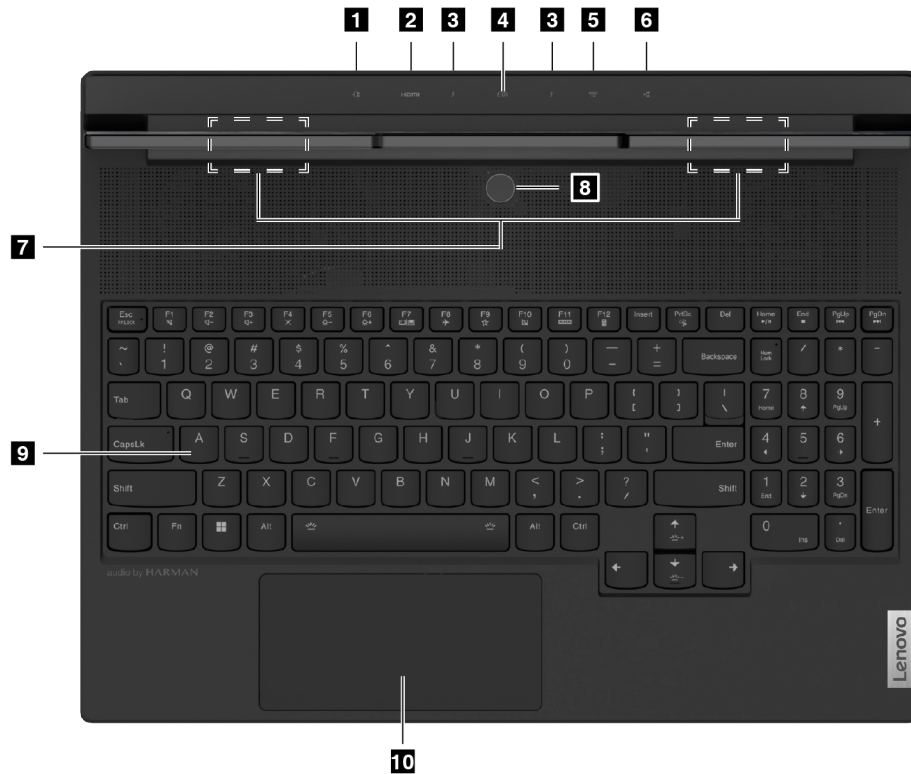
Model name	Machine type (MT)
Legion 9 16IRX8	83AG
Lenovo Legion 9 16IRX8	83AG

- For further compliance information, refer to the *Generic Safety and Compliance Notices* at [https://pcsupport.lenovo.com/docs/generic\\_notices](https://pcsupport.lenovo.com/docs/generic_notices).
- This guide may contain information about accessories, features, and software that are not available on all models.
- This guide contains instructions that are based on the Windows operating system. These instructions are not applicable if you install and use other operating systems.
- Microsoft® makes periodic feature changes to the Windows® operating system through Windows Update. As a result, the operating system related instructions may become outdated. Refer to Microsoft resources for the latest information.
- The content of the guide is subject to change without notice. To obtain the latest version, go to <https://support.lenovo.com>.



# Meet your PC

## Front view



No.	Description
1	Power connector
2	HDMI connector
3	Multi-purpose USB Type-C connector
4	Water pump status light
5	USB Standard-A connector
6	RJ-45 connector
7	Antennas (invisible from the outside)
8	Power button
9	Keyboard
10	Touchpad

## Power light

Indicates the PC's current power state: turned on, sleep, turned off or in hibernation mode. When the PC is turned on or in sleep mode, this light can also indicate a low battery status.

Table 1. Power light status and description

Light status	Description
White (solid on)	The PC is turned on.
White (fast blinking)	The PC is turned on or in sleep mode. The battery charge level is below 20%.
White (slow blinking)	The PC is in sleep mode.
Off	The PC is turned off or in hibernation mode.

## Battery charging light

Indicates whether the battery is close to being fully charged.

Table 2. Battery charging light status and description

Light status	Description
Amber (solid on)	The battery charge level is between 1%–90% of its full capacity.
White (solid on)	The battery charge level is between 91%–100% of its full capacity.
Off	The PC is not plugged into an electrical outlet.

## Multi-purpose USB Type-C® connector

This multi-purpose connector can be used to connect:

- devices that conform to the USB data transfer protocol
- display devices

**Note:** When connecting display devices, you need to use appropriate cables and adapters (if needed) according to the connection capabilities of the display device.

- Thunderbolt-enabled devices



Left view



No.	Description
1	Combo audio jack
2	SD slot

Right view



No.	Description
1	Camera switch
2	USB Type-C connector
3	USB Standard-A connector

USB Type-C® connector

Use this USB Type-C connector to connect devices that utilize the USB data transfer protocol.

**Note:** This USB Type-C connector does not support DisplayPort Alt mode and cannot be used to connect external display devices.

---

## Specifications

### Dimensions

Width	357.7 mm
Depth	277.7 mm
Thickness	19 mm (thinnest part)

### ac power adapter\*

Input	100 V ac–240 V ac, 50 Hz–60 Hz
Maximum output	330 W

**Note:** Select models came with an additional USB Type-C power adapter.

<b>Input</b>	<b>100 V ac–240 V ac, 50 Hz–60 Hz</b>
<b>Maximum output</b>	<b>140 W</b>

### Rechargeable battery pack

Capacity	99.9 Wh
Cell type	Li-Polymer

### Memory

Type	LPDDR5
Installation	Slot mounted

### Mass storage

Type	SSD
Slot	M.2 (2280/2242)
Interface	PCIe Gen4

### Display

Size	16 inch
Resolution	3200 × 2000

## Connectors

USB Standard-A	<ul style="list-style-type: none"><li>• Quantity: 2</li><li>• Maximum power output: 5 V, 0.9 A*</li><li>• Protocol:<ul style="list-style-type: none"><li>– USB 2.0 480 Mbps</li><li>– SuperSpeed USB 5 Gbps</li></ul></li></ul> <p><b>Note:</b> The USB Standard-A connector on the rear side of the PC support maximum power output of 5V and 2A.</p>
USB Type-C	<ul style="list-style-type: none"><li>• Quantity: 1</li><li>• Maximum power output: 5 V, 3 A</li><li>• Protocol:<ul style="list-style-type: none"><li>– USB 2.0 480 Mbps</li><li>– SuperSpeed USB 5 Gbps</li><li>– SuperSpeed USB 10 Gbps</li></ul></li></ul>
Multi-purpose USB Type-C	<ul style="list-style-type: none"><li>• Quantity: 2</li><li>• Maximum power output: 5 V, 3 A</li><li>• Maximum power input: 20 V, 3.25 A</li><li>• Protocol:<ul style="list-style-type: none"><li>– USB 2.0 480 Mbps</li><li>– SuperSpeed USB 5 Gbps</li><li>– SuperSpeed USB 10 Gbps</li><li>– DisplayPort 1.4</li><li>– Thunderbolt 4 41.25 Gbps</li></ul></li></ul>

**Note:** Data rates and performance ratings are dependent on connected devices and cables if they are used. USB Type-C connectors that are DisplayPort 1.4 compliant through DisplayPort alternate mode provide maximum output resolution of 5120 x 3200, at 60 Hz frame rate and color depth of 24 bpp (bits per pixel). The actual maximum output resolution is dependent on the connected display device and the cable being used.

## Networking

Ethernet	2.5 Gbps
Wi-Fi	<ul style="list-style-type: none"><li>• Wi-Fi 7, or</li><li>• Wi-Fi 6E</li></ul>
Bluetooth	Bluetooth 5.x

## Statement on USB transfer rate

Depending on many factors such as the processing capability of the host and peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and will be slower than the data rate listed below for each corresponding device.

USB device	Data rate (Gbit/s)
3.2 Gen 1	5
3.2 Gen 2	10

## Operating environment

### Maximum altitude (without pressurization)

3048 m (10 000 ft)

### Temperature

- At altitudes up to 2438 m (8000 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 (8000 ft)
  - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

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

### Relative 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)



---

## Appendix A. Notices and trademarks

### Notices

Lenovo may not offer the products, services, or features discussed in this document in all countries. Consult your local Lenovo representative for information on the products and services currently available in your area. Any reference to a Lenovo product, program, or service is not intended to state or imply that only that Lenovo product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any Lenovo intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any other product, program, or service.

Lenovo may have patents or pending patent programs covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

Lenovo (United States), Inc.  
8001 Development Drive  
Morrisville, NC 27560  
U.S.A.

Attention: Lenovo Director of Licensing

LENOVO PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

Changes are made periodically to the information herein; these changes will be incorporated in new editions of the publication. To provide better service, Lenovo reserves the right to improve and/or modify the products and software programs described in the manuals included with your computer, and the content of the manual, at any time without additional notice.

The software interface and function and hardware configuration described in the manuals included with your computer might not match exactly the actual configuration of the computer that you purchase. For the configuration of the product, refer to the related contract (if any) or product packing list, or consult the distributor for the product sales. Lenovo may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

The products described in this document are not intended for use in implantation or other life support applications where malfunction may result in injury or death to persons. The information contained in this document does not affect or change Lenovo product specifications or warranties. Nothing in this document shall operate as an express or implied license or indemnity under the intellectual property rights of Lenovo or third parties. All information contained in this document was obtained in specific environments and is presented as an illustration. The result obtained in other operating environments may vary.

Lenovo may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Any references in this publication to non-Lenovo Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this Lenovo product, and use of those Web sites is at your own risk.

Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

This document is copyrighted by Lenovo and is not covered by any open source license, including any Linux agreement(s) which may accompany software included with this product. Lenovo may update this document at any time without notice.

For the latest information or any questions or comments, contact or visit the Lenovo Web site:

<https://support.lenovo.com>

### **Trademarks**

Lenovo and the Lenovo logo are trademarks of Lenovo. Thunderbolt is a trademark of Intel Corporation or its subsidiaries. Microsoft, Windows, OneDrive, Outlook, Skype, Office 365 and Cortana are trademarks of the Microsoft group of companies. DisplayPort is a trademark of the Video Electronics Standards Association. Wi-Fi is a registered trademark of Wi-Fi Alliance. USB Type-C is a registered trademark of USB Implementers Forum. All other trademarks are the property of their respective owners.