Lenovo Legion Pro 7, Intel Core i9-13900HX (36MB Cache), 32GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 IPS, Intel UHD Graphics, NVIDIA GeForce RTX 4080 (12GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home 64-bit

Brand : Lenovo

Product family: Legion

Product code: 82WQ000XUK

Product name : Legion Pro 7, Intel Core i9-13900HX (36MB Cache), 32GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 IPS, Intel UHD Graphics, NVIDIA GeForce RTX 4080 (12GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home 64-bit
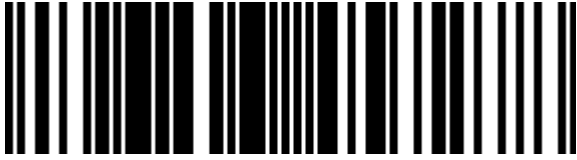
- Windows 11 Home 64-bit
- Intel Core i9-13900HX (36MB Cache)
- 40.6 cm (16") WQXGA 2560 x 1600 IPS, NVIDIA GeForce RTX 4080 (12GB GDDR6)
- 32GB (5600MHz) DDR5-SDRAM (2 x 16) & 1000GB SSD

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Design

Colour name	Onyx grey
Product type *	Laptop
Product colour *	Grey
Form factor *	Clamshell
Housing material	Aluminium

Display

Display diagonal *	40.6 cm (16")
Display resolution *	2560 x 1600 pixels
Touchscreen *	✘
HD type	WQXGA
Panel type	IPS
LED backlight	✓
Native aspect ratio	16:10
Anti-glare screen	✓
Display brightness	500 cd/m²
RGB colour space	sRGB
Colour gamut	100%
Maximum refresh rate	240 Hz
Contrast ratio (typical)	1200:1
High Dynamic Range (HDR) supported	✓
High Dynamic Range (HDR) technology	DisplayHDR 400, Dolby Vision

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i9
Processor generation	13th gen Intel® Core™ i9
Processor model *	i9-13900HX
Processor cores	24

Network

Wi-Fi standards	Wi-Fi 6E (802.11ax)
Mobile network connection *	✘
Antenna type	2x2
Ethernet LAN	✓
Ethernet LAN data rates	100,1000 Mbit/s
Bluetooth	✓
Bluetooth version	5.1
WWAN	Not installed

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
Thunderbolt 4 ports quantity	1
Intel® Thunderbolt 4	✓
Combo headphone/mic port	✓
USB Type-C DisplayPort Alternate Mode	✓
USB Power Delivery	✓
USB Sleep-and-Charge	✓
USB Sleep-and-Charge ports	1

Performance

Motherboard chipset	Intel HM770

Keyboard

Pointing device	Touchpad
Keyboard language	UK English

Processor

Processor boost frequency	5.4 GHz
Efficient-core boost frequency	3.9 GHz
Processor cache	36 MB
Processor cache type	Smart Cache
Bus type	DMI4
Configurable TDP-down	45 W

Memory

Internal memory *	32 GB
Internal memory type	DDR5-SDRAM
Memory clock speed	5600 MHz
Memory form factor	SO-DIMM
Memory layout (slots x size)	2 x 16 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	32 GB
Memory channels	Dual-channel

Storage

Total storage capacity *	1 TB
Storage media *	SSD
Total SSDs capacity	1 TB
Number of SSDs installed	1
SSD capacity	1 TB
SSD interface	PCI Express 4.0
NVMe	✓
SSD form factor	M.2
Optical drive type *	✗
Card reader integrated	✗

Graphics

Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA GeForce RTX 4080
Discrete graphics card memory	12 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✓
On-board GPU manufacturer	Intel
Discrete graphics card *	✓
On-board graphics card model *	Intel® UHD Graphics

Audio

Audio chip	Realtek ALC3306
Audio system	Nahimic Audio
Number of built-in speakers	2
Speakers manufacturer	Harman Kardon
Speaker power	2 W
Built-in microphone	✓
Number of microphones	2

Camera

Front camera	✓
Front camera resolution	1920 x 1080 pixels
Front camera HD type	Full HD
Privacy camera	✓

Network

Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)

Keyboard

Numeric keypad *	✓
Keyboard backlit	✓
Keyboard backlit colour	RGB
Keyboard backlit zone	Per-key RGB

Software

Operating system architecture	64-bit
Operating system language	English
Operating system installed *	Windows 11 Home

Processor special features

Intel Flex Memory Access	✓
Intel VT-x with Extended Page Tables (EPT)	✓
CPU configuration (max)	1
Embedded options available	✗
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel Virtualization Technology (VT-x)	✓

Battery

Battery technology	Lithium Polymer (LiPo)
Battery capacity *	99.9 Wh
Fast charging	✓

Power

AC adapter power	330 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V

Security

Fingerprint reader	✗
Trusted Platform Module (TPM)	✓
Trusted Platform Module (TPM) version	2.0
Password protection	✓
Password protection type	BIOS, HDD, Power on, Supervisor

Operational conditions

Operating temperature (T-T)	5 - 35 °C
Storage temperature (T-T)	5 - 43 °C
Operating relative humidity (H-H)	8 - 95%
Storage relative humidity (H-H)	5 - 95%
Maximum shipping altitude	3048 m

Certificates

Certification	TÜV Rheinland® High Gaming Performance TÜV Rheinland Low Blue Light (Hardware Solution)

Sustainability

Sustainability certificates	ErP, RoHS

Weight & dimensions

Width	363.4 mm
Depth	262.1 mm
Height (front)	2.19 cm
Height (rear)	2.59 cm
Weight *	2.8 kg

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