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## Lenovo ThinkPad P15 Intel® Core™ i9 i9-11950H Estación de trabajo móvil 39.6 cm (15.6") 4K Ultra HD 16 GB DDR4-SDRAM 512 GB SSD NVIDIA RTX A2000 Wi-Fi 6E (802.11ax) Windows 11 Pro **Español Negro**



Familia de productos: Código del producto: Marca: Lenovo ThinkPad 20YRS89F00

## Nombre del producto: P15

- Windows 11 Pro 64-bit
- Intel Core i9-11950H (24MB Cache, 2.6GHz)
- 39.6 cm (15.6") Full HD 3840 x 2160 IPS, NVIDIA RTX A2000 (4GB GDDR6)
- 16GB (3200MHz) DDR4-SDRAM (1 x 16) & 512GB SSD

Intel Core i9-11950H (24MB Cache, 2.6GHz), 16GB DDR4-SDRAM, 512GB SSD, 39.6 cm (15.6") Full HD 3840 x 2160 IPS, Intel UHD Graphics, NVIDIA RTX A2000 (4GB GDDR6), LAN, WLAN, Webcam, Windows 11 Pro 64-bit

Lenovo ThinkPad P15. Tipo de producto: Estación de trabajo móvil, Factor de forma: Concha. Familia de procesador: Intel® Core™ i9, Modelo del procesador: i9-11950H, Frecuencia del procesador: 2.6 GHz. Diagonal de la pantalla: 39.6 cm (15.6"), Tipo HD: 4K Ultra HD, Resolución de la pantalla: 3840 x 2160 Pixeles. Memoria interna: 16 GB, Tipo de memoria interna: DDR4-SDRAM. Capacidad total de almacenaie: 512 GB, Unidad de almacenamiento: SSD. Modelo de gráficos en tarjeta: Intel® UHD Graphics. Sistema operativo instalado: Windows 11 Pro. Color del producto: Negro

Design		Network	
	Mobile workstation	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Product type *  Product colour *	Mobile workstation Black	Wi-Fi standard *	, ,
Form factor *	Clamshell		Wi-Fi 6E (802.11ax)
	Ciamsneii	Mobile network connection *	×
Display		Antenna type	2x2
Display diagonal *	39.6 cm (15.6")	WLAN controller model	Intel Wi-Fi 6E AX210
Display resolution *	3840 x 2160 pixels	WLAN controller manufacturer	Intel
Touchscreen *	×	Ethernet LAN	<b>✓</b>
HD type	4K Ultra HD	Ethernet LAN data rates	2500 Mbit/s
Panel type	IPS	Bluetooth	<b>✓</b>
LED backlight	✓	Bluetooth version	5.1
Native aspect ratio	16:9	Ports & interfaces	
Anti-glare screen	<ul> <li>✓</li> <li>600 cd/m²</li> </ul>	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Display brightness RGB colour space	Adobe RGB	USB 3.2 Gen 2 (3.1 Gen 2) Type-C	
Colour gamut	100%	ports quantity	1
Contrast ratio (typical)	1200:1	Ethernet LAN (RJ-45) ports	1
High Dynamic Range (HDR)		HDMI ports quantity *	1
technology	DisplayHDR 400, Dolby Vision	HDMI version	2.1
Processor		Thunderbolt 4 ports quantity	2
Processor manufacturer *	Intel	Intel® Thunderbolt 4	✓
Processor family *	Intel® Core™ i9	Combo headphone/mic port	✓
Processor generation	11th gen Intel® Core™ i9	USB Type-C DisplayPort Alternate Mode	✓
Processor model *	i9-11950H	USB Sleep-and-Charge	✓
Processor cores	8	USB Sleep-and-Charge ports	1
Processor boost frequency	5 GHz	Performance	
Processor frequency *	2.6 GHz		
Processor cache	24 MB	Motherboard chipset	Intel WM590
Processor cache type	Smart Cache	Keyboard	
Memory		Pointing device	ThinkPad UltraNav
Internal memory *	16 GB	Numeric keypad *	✓
Internal memory type	DDR4-SDRAM	Keyboard backlit	<b>✓</b>
Memory clock speed	3200 MHz	Spill-resistant keyboard	<b>✓</b>
Memory form factor	SO-DIMM	Keyboard language	Spanish

		Coffee	
Memory		Software	
Memory layout (slots x size)	1 x 16 GB	Operating system architecture	64-bit
Memory slots	4x SO-DIMM	Operating system language	Spanish Mindows 11 Box
Maximum internal memory *	128 GB	Operating system installed *	Windows 11 Pro
Memory channels	Dual-channel	Battery	
Storage		Battery technology	Lithium Polymer (LiPo)
Total storage capacity *	512 GB	Battery capacity *	94 Wh
Storage media *	SSD	Battery life (max)	9 h
Total SSDs capacity Number of SSDs installed	512 GB 1	Fast charging	✓
SSD capacity	512 GB	Power	
SSD interface	PCI Express 4.0	AC adapter power	170 W
NVMe	✓	USB Power Delivery (USB PD)	✓
SSD form factor	M.2	Security	
Optical drive type *	×	Cable lock slot	<b>✓</b>
Card reader integrated	<b>✓</b>	Cable lock slot type	Kensington
Compatible memory cards	SD	Fingerprint reader	<b>✓</b>
Graphics		Smart card reader	×
Discrete GPU manufacturer	NVIDIA	Trusted Platform Module (TPM)	<b>✓</b>
Discrete graphics card model *	NVIDIA RTX A2000	Trusted Platform Module (TPM)	2.0
Discrete graphics card memory	4 GB	version	2.0
Discrete graphics memory type	GDDR6	Password protection	✓
On-board graphics card *	✓	Password protection type	Power on, Supervisor
On-board GPU manufacturer	Intel	Operational conditions	
Discrete graphics card *	✓	Operating temperature (T-T)	5 - 35 °C
On-board graphics card model *	Intel® UHD Graphics	Storage temperature (T-T)	5 - 43 °C
Audio		Operating relative humidity (H-H)	8 - 95%
Audio chip	Realtek ALC3306	Storage relative humidity (H-H)	5 - 95%
Audio system	Dolby Atmos	Maximum shipping altitude	3048 m
Number of built-in speakers	2	Certificates	
Built-in microphone	✓	Certification	EPEAT™ Gold ENERGY STAR® 8.0
Number of microphones	2	00.100.1.0	RoHS compliant MIL-STD-810H
Camera		Weight & dimensions	
Front camera	<b>√</b>	Width	375.4 mm
Front camera resolution	1280 x 720 pixels	Depth	252.3 mm
Front camera HD type	HD	Height (front)	2.45 cm
Infrared (IR) camera	<b>✓</b>	Height (rear)	3.15 cm
Privacy camera	<b>✓</b>	Weight *	2.87 kg
Privacy type	Privacy shutter		
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