



Lenovo ThinkPad P1 Intel® Core™ i9 i9-13900H Estación de trabajo móvil 40.6 cm (16") Pantalla táctil WQUXGA 64 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX 5000 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Español Negro



Marca : Lenovo

Familia de productos:
ThinkPad

Código del producto:
21FW000HLM

Nombre del producto : P1

- Windows 11 Pro
- Intel Core i9-13900H (24MB Cache)
- 40.6 cm (16") WQUXGA 3840 x 2400 OLED Touch, NVIDIA RTX 5000 Ada (16GB GDDR6)
- 64GB (5600MHz) DDR5-SDRAM (2 x 32) & 1000GB SSD
Intel Core i9-13900H (24MB Cache), 64GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WQUXGA 3840 x 2400 OLED Touch, Intel Iris Xe Graphics, NVIDIA RTX 5000 Ada (16GB GDDR6), WLAN, Webcam, Windows 11 Pro
Lenovo ThinkPad P1. Tipo de producto: Estación de trabajo móvil, Factor de forma: Concha. Familia de procesador: Intel® Core™ i9, Modelo del procesador: i9-13900H. Diagonal de la pantalla: 40.6 cm (16"), Tipo HD: WQUXGA, Resolución de la pantalla: 3840 x 2400 Píxeles, Pantalla táctil. Memoria interna: 64 GB, Tipo de memoria interna: DDR5-SDRAM. Capacidad total de almacenaje: 1 TB, Unidad de almacenamiento: SSD. Modelo de gráficos en tarjeta: Intel Iris Xe Graphics. Sistema operativo instalado: Windows 11 Pro. Color del producto: Negro

Design		Camera	
Product type *	Mobile workstation	Front camera	✓
Product colour *	Black	Front camera resolution (numeric)	5 MP
Form factor *	Clamshell	Infrared (IR) camera	✓
Display		Privacy camera	✓
Display diagonal *	40.6 cm (16")	Privacy type	Privacy shutter
Display resolution *	3840 x 2400 pixels	Network	
Touchscreen *	✓	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
HD type	WQUXGA	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Panel type	OLED	Mobile network connection *	✗
LED backlight	✓	Antenna type	2x2
Native aspect ratio	16:10	WLAN controller model	Intel Wi-Fi 6E AX211
Maximum display brightness (HDR)	500 cd/m²	WLAN controller manufacturer	Intel
Standard Dynamic Range (SDR) brightness	400 cd/m²	Ethernet LAN	✗
RGB colour space	DCI-P3	Bluetooth	✓
Colour gamut	100%	Bluetooth version	5.3
Contrast ratio (typical)	100000:1	WWAN	Not installed
High Dynamic Range (HDR) supported	✓	Ports & interfaces	
High Dynamic Range (HDR) technology	DisplayHDR 400, Dolby Vision	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Processor		HDMI ports quantity *	1
Processor manufacturer *	Intel	HDMI version	2.1
Processor family *	Intel® Core™ i9	Thunderbolt 4 ports quantity	2
Processor generation	13th gen Intel® Core™ i9	Intel® Thunderbolt 4	✓
Processor model *	i9-13900H	Combo headphone/mic port	✓
Processor cores	14	USB Type-C DisplayPort Alternate Mode	✓
Processor threads	20	USB Sleep-and-Charge	✓
Processor boost frequency	5.4 GHz	USB Sleep-and-Charge ports	1
Performance cores	6	Performance	
Efficient cores	8	Motherboard chipset	Intel SoC
Performance-core Max Turbo Frequency	5.4 GHz	Keyboard	
Efficient-core Max Turbo Frequency	4.1 GHz	Pointing device	ThinkPad UltraNav

Processor		Keyboard	
Processor cache	24 MB	Numeric keypad *	✗
Processor cache type	Smart Cache	Keyboard backlit	✓
Processor base power	45 W	Spill-resistant keyboard	✓
Maximum turbo power	115 W	Keyboard language	Spanish
Memory		Software	
Internal memory *	64 GB	Operating system language	Spanish
Internal memory type	DDR5-SDRAM	Operating system installed *	Windows 11 Pro
Memory clock speed	5600 MHz	Battery	
Memory form factor	SO-DIMM	Battery technology	Lithium Polymer (LiPo)
Memory layout (slots x size)	2 x 32 GB	Battery capacity *	90 Wh
Memory slots	2x SO-DIMM	Fast charging	✓
Maximum internal memory *	96 GB	Power	
Memory channels	Dual-channel	AC adapter power	230 W
Non-ECC	✓	AC adapter frequency	50 - 60 Hz
Storage		AC adapter input voltage	100 - 240 V
Total storage capacity *	1 TB	USB Power Delivery (USB PD)	✓
Storage media *	SSD	Security	
Total SSDs capacity	1 TB	Cable lock slot	✓
Number of SSDs installed	1	Cable lock slot type	Kensington
SSD capacity	1 TB	Fingerprint reader	✓
SSD interface	PCI Express 4.0	Smart card reader	✗
NVMe	✓	Trusted Platform Module (TPM)	✓
SSD form factor	M.2	Trusted Platform Module (TPM) version	2.0
Optical drive type *	✗	Password protection	✓
Card reader integrated	✓	Password protection type	Power on, Supervisor, SSD
Compatible memory cards	SD	Operational conditions	
Graphics		Operating temperature (T-T)	5 - 35 °C
Discrete GPU manufacturer	NVIDIA	Storage temperature (T-T)	5 - 43 °C
Discrete graphics card model *	NVIDIA RTX 5000 Ada	Operating relative humidity (H-H)	8 - 95%
Discrete graphics card memory	16 GB	Storage relative humidity (H-H)	5 - 95%
Discrete graphics memory type	GDDR6	Maximum shipping altitude	3048 m
On-board graphics card *	✓	Certificates	
On-board GPU manufacturer	Intel	Compliance certificates	RoHS
Discrete graphics card *	✓	Certification	MIL-STD-810H ISV TÜV
On-board graphics card model *	Intel Iris Xe Graphics	Sustainability	
Audio		Sustainability compliance	✓
Audio chip	Realtek ALC3306	Sustainability certificates	TCO, ENERGY STAR, EPEAT Gold
Audio system	Dolby Atmos	Weight & dimensions	
Number of built-in speakers	2	Width	359.5 mm
Speaker power	2 W	Depth	253.8 mm
Built-in microphone	✓	Height	17.3 mm
Number of microphones	2	Weight *	1.78 kg



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