

**Lenovo**

# Lenovo ThinkPad P1 Intel® Core™ i7 i7-13700H Mobilityöasema 40,6 cm (16") WUXGA 16 GB DDR5-SDRAM 512 GB SSD NVIDIA RTX A1000 Wi-Fi 6E (802.11ax) Windows 11 Pro musta



Tuotemerkki : Lenovo

Tuoteperhe: ThinkPad

Tuotekoodi: 21FV000UMX

Tuotteen nimi : P1

Lenovo ThinkPad P1. Tuotetyyppi: Mobilityöasema, Kotelo: Simpukka. Suoritinperhe: Intel® Core™ i7, Prosessorimalli: i7-13700H. Näytön halkaisija: 40,6 cm (16"), HD-tyyppi: WUXGA, Näytön erottelutarkkuus: 1920 x 1200 pikseliä. Sisäinen muisti: 16 GB, Sisäisen muistin tyyppi: DDR5-SDRAM. Kokonaistallennuskapasiteetti: 512 GB, Tallennusmedia: SSD. Sisältyvän näytönohjaimen malli: Intel Iris Xe Graphics, Erillisen näytönohjaimen malli: NVIDIA RTX A1000. Käyttöjärjestelmä asennettu: Windows 11 Pro. Tuotteen väri: musta

Design		Camera	
Product type *	Mobile workstation	Front camera HD type	Full HD
Product colour *	Black	Infrared (IR) camera	✓
Form factor *	Clamshell	Privacy camera	✓
Display		Privacy type	Privacy shutter
Display diagonal *	40.6 cm (16")	Network	
Display resolution *	1920 x 1200 pixels	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Touchscreen *	✗	Wi-Fi standards	Wi-Fi 6E (802.11ax)
HD type	WUXGA	Mobile network connection *	✗
Panel type	IPS	Antenna type	2x2
LED backlight	✓	WLAN controller model	Intel Wi-Fi 6E AX211
Native aspect ratio	16:10	WLAN controller manufacturer	Intel
Anti-glare screen	✓	Ethernet LAN	✗
Display brightness	300 cd/m <sup>2</sup>	Bluetooth	✓
RGB colour space	sRGB	Bluetooth version	5.1
Colour gamut	100%	WWAN	Not installed
Contrast ratio (typical)	1200:1	Ports & interfaces	
Processor		USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Processor manufacturer *	Intel	HDMI ports quantity *	1
Processor family *	Intel® Core™ i7	HDMI version	2.1
Processor generation	13th gen Intel® Core™ i7	Thunderbolt 4 ports quantity	2
Processor model *	i7-13700H	Intel® Thunderbolt 4	✓
Processor cores	14	Combo headphone/mic port	✓
Processor boost frequency	5 GHz	USB Type-C DisplayPort Alternate Mode	✓
Performance cores	6	USB Sleep-and-Charge	✓
Efficient cores	8	USB Sleep-and-Charge ports	1
Performance-core Max Turbo Frequency	5 GHz	Performance	
Efficient-core Max Turbo Frequency	3.7 GHz	Motherboard chipset	Intel SoC
Processor cache	24 MB	Keyboard	
Processor cache type	Smart Cache	Pointing device	ThinkPad UltraNav
Processor base power	45 W	Keyboard language	Danish, Finnish, Norwegian, Swedish
Maximum turbo power	115 W	Numeric keypad *	✗
Memory		Keyboard backlight	✓
Internal memory *	16 GB		
Internal memory type	DDR5-SDRAM		
Memory clock speed	5600 MHz		

<b>Memory</b>		<b>Keyboard</b>	
Memory form factor	SO-DIMM	Spill-resistant keyboard	✓
Memory layout (slots x size)	1 x 16 GB	<b>Software</b>	
Memory slots	2x SO-DIMM	Operating system language	Danish, English, Finnish, Norwegian, Swedish
Maximum internal memory *	96 GB	Operating system installed *	Windows 11 Pro
Memory channels	Dual-channel	<b>Battery</b>	
Non-ECC	✓	Battery technology	Lithium Polymer (LiPo)
<b>Storage</b>		Battery capacity *	90 Wh
Total storage capacity *	512 GB	Fast charging	✓
Storage media *	SSD	<b>Power</b>	
Total SSDs capacity	512 GB	AC adapter power	170 W
Number of SSDs installed	1	AC adapter frequency	50 - 60 Hz
SSD capacity	512 GB	AC adapter input voltage	100 - 240 V
SSD interface	PCI Express 4.0	USB Power Delivery (USB PD) *	✓
NVMe	✓	<b>Security</b>	
SSD form factor	M.2	Cable lock slot	✓
Optical drive type *	✗	Cable lock slot type	Kensington
Card reader integrated	✓	Fingerprint reader	✓
Compatible memory cards	SD	Smart card reader	✗
<b>Graphics</b>		Trusted Platform Module (TPM)	✓
Discrete GPU manufacturer	NVIDIA	Trusted Platform Module (TPM) version	2.0
Discrete graphics card model *	NVIDIA RTX A1000	Password protection	✓
Discrete graphics card memory	6 GB	Password protection type	Power on, Supervisor, SSD
Discrete graphics memory type	GDDR6	<b>Operational conditions</b>	
On-board graphics card *	✓	Operating temperature (T-T)	5 - 35 °C
On-board GPU manufacturer	Intel	Storage temperature (T-T)	5 - 43 °C
Discrete graphics card *	✓	Operating relative humidity (H-H)	8 - 95%
On-board graphics card model *	Intel Iris Xe Graphics	Storage relative humidity (H-H)	5 - 95%
<b>Audio</b>		Maximum shipping altitude	3048 m
Audio chip	Realtek ALC3306	<b>Certificates</b>	
Audio system	Dolby Atmos	Compliance certificates	RoHS
Number of built-in speakers	2	Certification	MIL-STD-810H ISV TÜV
Speaker power	2 W	<b>Sustainability</b>	
Built-in microphone	✓	Sustainability certificates	TCO, ENERGY STAR, EPEAT Gold
Number of microphones	2	<b>Weight &amp; dimensions</b>	
<b>Camera</b>		Width	359.5 mm
Front camera	✓	Depth	253.8 mm
Front camera resolution	1920 x 1080 pixels	Height	17.5 mm
		Weight *	1.86 kg



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