

Lenovo

Lenovo ThinkPad T450 Grade T1A i5-5300U Notebook 35.6 cm (14") HD+ Intel® Core™ i5 8 GB DDR3L-SDRAM 256 GB SSD Wi-Fi 5 (802.11ac) Windows 10 Pro Black

Brand : Lenovo**Product family:** ThinkPad**Product code:** L-T450-SCA-T001
Product name : T450 Grade T1A

Intel Core i5-5300U (3MB Cache, 2.3GHz), 8GB DDR3L-SDRAM, 256GB SSD, 35.6 cm (14") HD+ 1600 x 900, Intel HD Graphics 5500, LAN, WLAN, Bluetooth, Webcam, Windows 10 Pro 64-bit, Grade T1A
 Lenovo ThinkPad T450 Grade T1A. Product type: Notebook, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-5300U, Processor frequency: 2.3 GHz. Display diagonal: 35.6 cm (14"), HD type: HD+, Display resolution: 1600 x 900 pixels. Internal memory: 8 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 256 GB, Storage media: SSD. On-board graphics card model: Intel® HD Graphics 5500. Operating system installed: Windows 10 Pro. Product colour: Black




Design		Keyboard	
Product type *	Notebook	Pointing device	ThinkPad UltraNav
Product colour *	Black	Keyboard language	Norwegian, Swedish
Form factor *	Clamshell	Numeric keypad *	✗
Housing material	Acrylonitrile butadiene styrene (ABS)	Spill-resistant keyboard	✓
Refurbished	✓	Windows keys	✓
Display		Software	
Display diagonal *	35.6 cm (14")	Operating system architecture	64-bit
Display resolution *	1600 x 900 pixels	Operating system installed *	Windows 10 Pro
HD type	HD+	Processor special features	
Panel type	SVA	Intel® Wireless Display (Intel® WiDi)	✓
LED backlight	✓	Intel® Smart Response Technology	✓
Native aspect ratio	16:9	Intel® Identity Protection Technology (Intel® IPT)	✓
Display surface	Matt	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Display brightness	250 cd/m ²	Intel® Turbo Boost Technology	2.0
Contrast ratio (typical)	400:1	Intel® Small Business Advantage (Intel® SBA)	✓
Processor		Enhanced Intel SpeedStep Technology	✓
Processor manufacturer *	Intel	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor generation	5th gen Intel® Core™ i5	Intel Clear Video Technology	✓
Processor model *	i5-5300U	Intel® InTru™ 3D Technology	✓
Processor frequency *	2.3 GHz	Intel® Insider™	✓
Processor boost frequency	2.9 GHz	Intel® Quick Sync Video Technology	✓
Processor family *	Intel® Core™ i5	Intel Flex Memory Access	✓
Processor cores	2	Intel® Smart Cache	✓
Processor threads	4	Intel® AES New Instructions (Intel® AES-NI)	✓
System bus rate	5 GT/s	Intel Trusted Execution Technology	✓
Processor cache	3 MB	Intel Enhanced Halt State	✓
Processor cache type	L3	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket	BGA 1168	Intel® Secure Key	✓
Processor lithography	14 nm	Intel TSX-NI	✓
Processor operating modes	32-bit, 64-bit		
Processor series	Intel® Core™ i5-5300 Mobile Series		
Processor codename	Broadwell		
Bus type	DMI2		
Stepping	F0		

Processor		Processor special features	
Thermal Design Power (TDP)	15 W	Intel Stable Image Platform Program (SIPP)	✓
Configurable TDP-down	7.5 W	Intel® OS Guard	✓
Configurable TDP-down frequency	0.6 GHz	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Tjunction	105 °C	Intel 64	✓
Maximum number of PCI Express lanes	12	Execute Disable Bit	✓
PCI Express slots version	2.0	Idle States	✓
PCI Express configurations	4x1, 2x4	Thermal Monitoring Technologies	✓
Memory		Processor package size	40 x 24 x 1.3 mm
Internal memory *	8 GB	Supported instruction sets	AVX 2.0
Internal memory type	DDR3L-SDRAM	Processor code	SR23X
Memory clock speed	1600 MHz	CPU configuration (max)	1
Memory form factor	SO-DIMM	Embedded options available	✗
Memory layout (slots x size)	2 x 4 GB	Graphics & IMC lithography	14 nm
Memory slots	2x SO-DIMM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum internal memory *	16 GB	Intel Identity Protection Technology version	1.00
Storage		Intel Smart Response Technology version	1.00
Total storage capacity *	256 GB	Intel Stable Image Platform Program (SIPP) version	1.00
Storage media *	SSD	Intel Secure Key Technology version	1.00
Total SSDs capacity	256 GB	Intel Small Business Advantage (SBA) version	1.00
Number of SSDs installed	1	Intel TSX-NI version	1.00
SSD capacity	256 GB	Intel Virtualization Technology (VT-x)	✓
Optical drive type *	✗	Intel FDI Technology	✓
Card reader integrated	✓	Intel Fast Memory Access	✓
Compatible memory cards	MMC, SD, SDHC, SDXC	Processor ARK ID	85213
Graphics		Conflict-Free processor	✓
Discrete graphics card model *	Not available	Battery	
On-board graphics card *	✓	Battery technology	Lithium-Ion (Li-Ion)
Discrete graphics card *	✗	Battery capacity (Watt-hours) *	23.5 Wh
On-board graphics card family	Intel® HD Graphics	Battery life (max)	8 h
On-board graphics card model *	Intel® HD Graphics 5500	Power	
On-board graphics card base frequency	300 MHz	AC adapter power	45 W
On-board graphics card dynamic frequency (max)	900 MHz	AC adapter frequency	50 - 60 Hz
Maximum on-board graphics card memory	16 GB	AC adapter input voltage	100 - 240 V
On-board graphics card DirectX version	11.2	Security	
On-board graphics card ID	0x1616	Cable lock slot	✓
Audio		Cable lock slot type	Kensington
Audio chip	Realtek ALC3232	Fingerprint reader	✓
Audio system	Dolby Home Theater v4	Trusted Platform Module (TPM)	✓
Number of built-in speakers	2	Password protection	✓
Speaker power	1 W	Password protection type	HDD, Power on, Supervisor
Built-in microphone	✓	Sustainability	
Camera		Sustainability certificates	RoHS, ENERGY STAR
Front camera	✓	Weight & dimensions	
Front camera resolution	1280 x 720 pixels	Width	337.8 mm
Front camera signal format	720p	Depth	233.7 mm
Front camera HD type	HD	Height	20.3 mm
Auto focus	✗	Weight *	1.73 kg
Network		Packaging content	
Wi-Fi	✓	Manual	✓
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)	Power cord included	✓
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)		
WLAN controller model	Intel Dual Band Wireless-AC 7265		
Ethernet LAN	✓		

Network		Other features	
Ethernet LAN data rates	10,100,1000 Mbit/s	AC adapter included	✓
Bluetooth	✓	3D	✗
Bluetooth version	4.0		
Ports & interfaces			
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3		
Ethernet LAN (RJ-45) ports	1		
Mini DisplayPorts quantity	1		
VGA (D-Sub) ports quantity	1		
Headphone outputs	1		
Combo headphone/mic port	✓		
SmartCard slot	✓		

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