



T1A Lenovo ThinkPad T450 Refurbished i5-5300U Notebook 35.6 cm (14") HD+ Intel® Core™ i5 16 GB DDR3L-SDRAM 180 GB SSD Windows 10 Pro Black

Brand : T1A

Product code: L-T450-UK-T004

Product name : Lenovo ThinkPad T450 Refurbished

- Windows 10 Pro 64-bit
- Intel Core i5-5300U (3MB Cache, 2.3GHz)
- 35.6 cm (14") HD+ 1600 x 900
- 16GB (1600MHz) DDR3L-SDRAM & 180GB SSD

Intel Core i5-5300U (3MB Cache, 2.3GHz), 16GB DDR3L-SDRAM, 180GB SSD, 35.6 cm (14") HD+ 1600 x 900, Intel HD Graphics 5500, LAN, WLAN, Webcam, Windows 10 Pro 64-bit

T1A Lenovo ThinkPad T450 Refurbished. 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: 16 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 180 GB, Storage media: SSD. On-board graphics card model: Intel® HD Graphics 5500. Operating system installed: Windows 10 Pro. Product colour: Black



Design		Ports & interfaces	
Product type *	Notebook	USB Sleep-and-Charge	✓
Product colour *	Black	USB Sleep-and-Charge ports	1
Form factor *	Clamshell	Keyboard	
Refurbished	✓	Pointing device	ThinkPad UltraNav
Display		Keyboard language	UK English
Display diagonal *	35.6 cm (14")	Numeric keypad *	✗
Display resolution *	1600 x 900 pixels	Keyboard backlit	✓
HD type	HD+	Spill-resistant keyboard	✓
LED backlight	✓	Software	
Native aspect ratio	16:9	Operating system architecture	64-bit
Processor		Operating system installed *	Windows 10 Pro
Processor manufacturer *	Intel	Processor special features	
Processor generation	5th gen Intel® Core™ i5	Intel® Wireless Display (Intel® WiDi)	✓
Processor model *	i5-5300U	Intel® Smart Response Technology	✓
Processor family *	Intel® Core™ i5	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor frequency *	2.3 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor boost frequency	2.9 GHz	Intel® Turbo Boost Technology	2.0
Processor cores	2	Intel® Small Business Advantage (Intel® SBA)	✓
Processor threads	4	Enhanced Intel SpeedStep Technology	✓
System bus rate	5 GT/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache	3 MB	Intel Clear Video Technology	✓
Processor cache type	L3	Intel® InTru™ 3D Technology	✓
Processor socket	BGA 1168	Intel® Insider™	✓
Processor lithography	14 nm	Intel® Quick Sync Video Technology	✓
Processor operating modes	32-bit, 64-bit	Intel Flex Memory Access	✓
Processor series	Intel® Core™ i5-5300 Mobile Series	Intel® Smart Cache	✓
Processor codename	Broadwell	Intel® AES New Instructions (Intel® AES-NI)	✓
Bus type	DMI2	Intel Trusted Execution Technology	✓
Stepping	F0	Intel Enhanced Halt State	✓
Thermal Design Power (TDP)	15 W		
Configurable TDP-down	7.5 W		
Configurable TDP-down frequency	0.6 GHz		
Tjunction	105 °C		
Maximum number of PCI Express lanes	12		

Processor		Processor special features	
PCI Express slots version	2.0	Intel VT-x with Extended Page Tables (EPT)	✓
PCI Express configurations	4x1, 2x4	Intel® Secure Key	✓
Memory		Intel TSX-NI	✓
Internal memory *	16 GB	Intel Stable Image Platform Program (SIPP)	✓
Internal memory type	DDR3L-SDRAM	Intel® OS Guard	✓
Memory clock speed	1600 MHz	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Memory form factor	SO-DIMM	Intel 64	✓
Memory slots	2x SO-DIMM	Execute Disable Bit	✓
Maximum internal memory *	16 GB	Idle States	✓
Storage		Thermal Monitoring Technologies	✓
Total storage capacity *	180 GB	Processor package size	40 x 24 x 1.3 mm
Storage media *	SSD	Supported instruction sets	AVX 2.0
Total SSDs capacity	180 GB	Processor code	SR23X
Number of SSDs installed	1	CPU configuration (max)	1
SSD capacity	180 GB	Embedded options available	✗
Optical drive type *	✗	Graphics & IMC lithography	14 nm
Card reader integrated	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Identity Protection Technology version	1.00
Graphics		Intel Smart Response Technology version	1.00
Discrete graphics card model *	Not available	Intel Stable Image Platform Program (SIPP) version	1.00
On-board graphics card *	✓	Intel Secure Key Technology version	1.00
Discrete graphics card *	✗	Intel Small Business Advantage (SBA) version	1.00
On-board graphics card model *	Intel® HD Graphics 5500	Intel TSX-NI version	1.00
On-board graphics card base frequency	300 MHz	Intel Virtualization Technology (VT-x)	✓
On-board graphics card dynamic frequency (max)	900 MHz	Intel FDI Technology	✓
Maximum on-board graphics card memory	16 GB	Intel Fast Memory Access	✓
On-board graphics card DirectX version	11.2	Processor ARK ID	85213
On-board graphics card ID	0x1616	Conflict-Free processor	✓
Audio		Security	
Audio chip	Realtek ALC3232	Cable lock slot	✓
Number of built-in speakers	2	Trusted Platform Module (TPM)	✓
Speaker power	1 W	Password protection	✓
Built-in microphone	✓	Password protection type	HDD, Power on, Supervisor
Camera		Weight & dimensions	
Front camera	✓	Width	339 mm
Front camera HD type	HD	Depth	232.5 mm
Network			
Ethernet LAN	✓		
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		
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		
Combo headphone/mic port	✓		



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