

Lenovo

## Lenovo ThinkPad T440 Intel® Core™ i5 i5-4300U Laptop 35,6 cm (14") HD+ 8 GB DDR3L-SDRAM 516 GB HDD+SSD Windows 7 Professional Preto



Marca : Lenovo

Família do produto: ThinkPad Código do produto: 20B7004FML

Nome do produto : T440

Lenovo ThinkPad T440. Tipo de produto: Laptop, Fator forma: Concha. Família do processador: Intel® Core™ i5, Modelo de processador: i5-4300U, Frequência do processador: 1,9 GHz. Display diagonal: 35,6 cm (14"), Tipo de HD: HD+, Resolução do display: 1600 x 900 pixels. Memória interna: 8 GB, Tipo de memória interna: DDR3L-SDRAM. Capacidade total de armazenagem: 516 GB, Armazenamento: HDD+SSD. Modelo de adaptador gráfico a bordo: Intel® HD Graphics 4400. Sistema operacional instalado: Windows 7 Professional. Cor do produto: Preto

Design		Software	
Product type *	Laptop	Operating system architecture	64-bit
Product colour *	Black	Recovery operating system	Windows 8 Pro
Form factor *	Clamshell	Operating system installed *	Windows 7 Professional
Housing material	Plastic	<b>Processor special features</b>	
Market positioning	Business	Intel® Wireless Display (Intel® WiDi)	✓
<b>Display</b>		Intel® My WiFi Technology (Intel® MWT)	✗
Display diagonal *	35.6 cm (14")	Intel Smart Connect Technology	✓
Display resolution *	1600 x 900 pixels	Intel® Anti-Theft Technology (Intel® AT)	✓
Touchscreen *	✗	Intel® Smart Response Technology	✓
HD type	HD+	Intel® Identity Protection Technology (Intel® IPT)	✓
LED backlight	✓	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Native aspect ratio	16:9	Intel® Turbo Boost Technology	2.0
Display brightness	250 cd/m <sup>2</sup>	Intel® Small Business Advantage (Intel® SBA)	✓
Dual-screen	✗	Intel® Matrix Storage Technology (Intel® MST)	✗
Contrast ratio (typical)	400:1	Intel® High Definition Audio (Intel® HD Audio)	✓
<b>Processor</b>		Enhanced Intel SpeedStep Technology	✓
Processor manufacturer *	Intel	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor family *	Intel® Core™ i5	Intel Clear Video Technology	✗
Processor generation	4th gen Intel® Core™ i5	Intel® InTru™ 3D Technology	✓
Processor model *	i5-4300U	Intel® Insider™	✓
Processor cores	2	Intel® Quick Sync Video Technology	✓
Processor threads	4	Intel Flex Memory Access	✗
Processor boost frequency	2.9 GHz	Intel® Smart Cache	✓
Processor frequency *	1.9 GHz	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	Smart Cache	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket	BGA 1168		
Processor lithography	22 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i5-4300 Mobile series		
Processor codename	Haswell		
Bus type	DMI2		
FSB Parity	✗		
Stepping	D0		
Thermal Design Power (TDP)	15 W		

Processor		Processor special features	
Tjunction	100 °C	Intel Demand Based Switching	✗
Maximum number of PCI Express lanes	12	Intel® Secure Key	✓
PCI Express slots version	2.0	Intel TSX-NI	✗
PCI Express configurations	4x1, 2x4	Intel Stable Image Platform Program (SIPP)	✓
ECC supported by processor	✗	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Memory		Intel 64	✓
Internal memory *	8 GB	Execute Disable Bit	✓
Internal memory type	DDR3L-SDRAM	Idle States	✓
Memory clock speed	1600 MHz	Thermal Monitoring Technologies	✓
Memory form factor	On-board + SO-DIMM	Processor package size	40 x 24 x 1.5 mm
Memory slots	1x SO-DIMM	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Maximum internal memory *	8 GB	Processor code	SR1ED
Storage		CPU configuration (max)	1
Total storage capacity *	516 GB	Embedded options available	✓
Storage media *	HDD+SSD	UART	✓
HDD capacity	500 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
HDD interface	SATA III	Intel Smart Connect Technology version	1.00
HDD speed	7200 RPM	Intel Identity Protection Technology version	1.00
HDD size	2.5"	Intel Smart Response Technology version	1.00
Number of SSDs installed	1	Intel Stable Image Platform Program (SIPP) version	1.00
SSD capacity	16 GB	Intel Secure Key Technology version	1.00
SSD interface	M.2	Intel Small Business Advantage (SBA) version	1.00
Optical drive type *	✗	Intel ME Firmware Version	9.5
Card reader integrated	✓	Intel TSX-NI version	0.00
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Virtualization Technology (VT-x)	✓
Graphics		Intel Dual Display Capable Technology	✗
Discrete graphics card model *	Not available	Intel FDI Technology	✗
On-board graphics card *	✓	Intel Rapid Storage Technology	✓
Discrete graphics card *	✗	Intel Fast Memory Access	✗
On-board graphics card family	Intel® HD Graphics	Processor ARK ID	76308
On-board graphics card model *	Intel® HD Graphics 4400	Conflict-Free processor	✓
On-board graphics card base frequency	200 MHz	Battery	
On-board graphics card dynamic frequency (max)	1100 MHz	Number of battery cells	3+3
Maximum on-board graphics card memory	1.74 GB	Battery life (max)	8.6 h
On-board graphics card DirectX version	12	Power	
On-board graphics card ID	0xA16	AC adapter power	45 W
Audio		DC-in jack	✓
Audio system	Dolby Advanced Audio v2	Security	
Number of built-in speakers	2	Cable lock slot	✓
Speaker power	1 W	Fingerprint reader	✓
Built-in microphone	✓	Trusted Platform Module (TPM)	✓
Camera		Password protection	✓
Front camera	✓	Password protection type	HDD, Power on, Supervisor
Front camera resolution	1280 x 720 pixels	Certificates	
Network		Compliance certificates	RoHS
Wi-Fi	✓	Sustainability	
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Sustainability certificates	EPEAT Silver, ENERGY STAR
Ethernet LAN	✓		
Bluetooth	✓		
Bluetooth version	4.0		

Ports & interfaces		Weight & dimensions	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Width	339 mm
Ethernet LAN (RJ-45) ports	1	Depth	232.5 mm
Mini DisplayPorts quantity	1	Height	21 mm
DVI port	✗	Weight *	1.72 kg
VGA (D-Sub) ports quantity	1	Packaging content	
Headphone outputs	1	AC adapter included *	✓
S/PDIF out port	✗	Manual	✓
Microphone in	✓	Power cord included	✓
Combo headphone/mic port	✓	Other features	
Docking connector	✓	LightScribe	✗
ExpressCard slot	✗	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
CardBus PCMCIA slot type	✗	Intel segment tagging	Home office, Small Business
SmartCard slot	✗		
Total number of SATA connectors	4		
Number of SATA III connectors	4		
USB Sleep-and-Charge	✓		
USB Sleep-and-Charge ports	1		
Performance			
Motherboard chipset	Intel SoC		
Keyboard			
Pointing device	ThinkPad UltraNav		
Numeric keypad *	✗		
Keyboard backlit	✗		
Windows keys	✓		

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