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
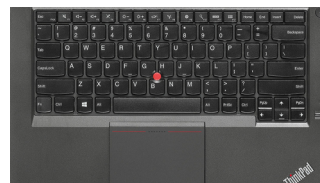
Marca : Lenovo

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, Freqüência 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

Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell
Housing material	Plastic
Market positioning	Business

Display

Display diagonal *	35.6 cm (14")
Display resolution *	1600 x 900 pixels
Touchscreen *	✗
HD type	HD+
LED backlight	✔
Native aspect ratio	16:9
Display brightness	250 cd/m²
Dual-screen	✗
Contrast ratio (typical)	400:1

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i5
Processor generation	4th gen Intel® Core™ i5
Processor model *	i5-4300U
Processor cores	2
Processor threads	4
Processor boost frequency	2.9 GHz
Processor frequency *	1.9 GHz
System bus rate	5 GT/s
Processor cache	3 MB
Processor cache type	Smart Cache
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

Software

Operating system architecture	64-bit
Recovery operating system	Windows 8 Pro
Operating system installed *	Windows 7 Professional

Processor special features

Intel® Wireless Display (Intel® WiDi)	✔
Intel® My WiFi Technology (Intel® MWT)	✗
Intel Smart Connect Technology	✔
Intel® Anti-Theft Technology (Intel® AT)	✔
Intel® Smart Response Technology	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Intel® Small Business Advantage (Intel® SBA)	✔
Intel® Matrix Storage Technology (Intel® MST)	✗
Intel® High Definition Audio (Intel® HD Audio)	✔
Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✗
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✗
Intel® Smart Cache	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✔
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔

Processor

Tjunction	100 °C
Maximum number of PCI Express lanes	12
PCI Express slots version	2.0
PCI Express configurations	4x1, 2x4
ECC supported by processor	✘

Memory

Internal memory *	8 GB
Internal memory type	DDR3L-SDRAM
Memory clock speed	1600 MHz
Memory form factor	On-board + SO-DIMM
Memory slots	1x SO-DIMM
Maximum internal memory *	8 GB

Storage

Total storage capacity *	516 GB
Storage media *	HDD+SSD
HDD capacity	500 GB
HDD interface	SATA III
HDD speed	7200 RPM
HDD size	2.5"
Number of SSDs installed	1
SSD capacity	16 GB
SSD interface	M.2
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	MMC, SD, SDHC, SDXC

Graphics

Discrete graphics card model *	Not available
On-board graphics card *	✔
Discrete graphics card *	✘
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 4400
On-board graphics card base frequency	200 MHz
On-board graphics card dynamic frequency (max)	1100 MHz
Maximum on-board graphics card memory	1.74 GB
On-board graphics card DirectX version	12
On-board graphics card ID	0xA16

Audio

Audio system	Dolby Advanced Audio v2
Number of built-in speakers	2
Speaker power	1 W
Built-in microphone	✔

Camera

Front camera	✔
Front camera resolution	1280 x 720 pixels

Network

Wi-Fi	✔
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN	✔
Bluetooth	✔
Bluetooth version	4.0

Processor special features

Intel Demand Based Switching	✘
Intel® Secure Key	✔
Intel TSX-NI	✘
Intel Stable Image Platform Program (SIPP)	✔
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✘
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	40 x 24 x 1.5 mm
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor code	SR1ED
CPU configuration (max)	1
Embedded options available	✔
UART	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Smart Connect Technology version	1.00
Intel Identity Protection Technology version	1.00
Intel Smart Response Technology version	1.00
Intel Stable Image Platform Program (SIPP) version	1.00
Intel Secure Key Technology version	1.00
Intel Small Business Advantage (SBA) version	1.00
Intel ME Firmware Version	9.5
Intel TSX-NI version	0.00
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✘
Intel FDI Technology	✘
Intel Rapid Storage Technology	✔
Intel Fast Memory Access	✘
Processor ARK ID	76308
Conflict-Free processor	✔

Battery

Number of battery cells	3+3
Battery life (max)	8.6 h

Power

AC adapter power	45 W
DC-in jack	✔

Security

Cable lock slot	✔
Fingerprint reader	✔
Trusted Platform Module (TPM)	✔
Password protection	✔
Password protection type	HDD, Power on, Supervisor

Certificates

Compliance certificates	RoHS

Sustainability

Sustainability certificates	EPEAT Silver, ENERGY STAR

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Ethernet LAN (RJ-45) ports	1
Mini DisplayPorts quantity	1
DVI port	✘
VGA (D-Sub) ports quantity	1
Headphone outputs	1
S/PDIF out port	✘
Microphone in	✔
Combo headphone/mic port	✔
Docking connector	✔
ExpressCard slot	✘
CardBus PCMCIA slot type	✘
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	✔

Weight & dimensions

Width	339 mm
Depth	232.5 mm
Height	21 mm
Weight *	1.72 kg

Packaging content

AC adapter included *	✔
Manual	✔
Power cord included	✔

Other features

LightScribe	✘
Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Intel segment tagging	Home office, Small Business