Lenovo

Lenovo ThinkPad T420s Intel® Core™ i7 i7-2640M 35,6 cm (14") HD+ 4 GB DDR3-SDRAM 160 GB SSD NVIDIA® Quadro® NVS 4200M Windows 7 Professional Black

Brand : Lenovo   **Product family:** ThinkPad   **Product code:** 41717FU

Product name : T420s

ThinkPad T420s 41717FU - Intel Core i7-2640M (4M Cache, 2.8 GHz), 14" Anti-glare (HD+, 16:9, 1600 x 900) TFT, 4GB DDR3, 160GB SATA SSD, NVIDIA NVS 4200M, DVD-Writer, Gigabit Ethernet, WLAN 802.11 a/b/g/n, WebCam, Windows 7 Professional 64-Bit

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SHARE THE GLORY, SHED THE BURDEN.

Advanced videoconferencing and file transfer features. Longer battery life. Uncompromising performance at breakneck speeds. Rugged enough to pass eight military specification tests, but light enough to go with you anywhere. The T420s is your trusted business partner.

DO LIST

- Boot in as little as 10 seconds with Lenovo RapidBoot Extreme
- Intel® Integrated HD Graphics offers twice the performance
- Dolby® Home Theater® with virtual surround sound technology
- 720p, low light-sensitive HD webcam
- Dual digital microphones
- USB 3.0 transfers data up to 10 times faster

Design			Keyboard	
Product colour *	Black		Windows keys	✔
Form factor *	Clamshell		Keyboard layout	QWERTY
Display			**Software**	
Display diagonal *	35,6 cm (14")		Operating system architecture	64-bit
Display resolution *	1600 x 900 pixels		Operating system installed *	Windows 7 Professional
HD type	HD+		**Processor special features**	
LED backlight	✔		Intel® Wireless Display (Intel® WiDi)	✔
Native aspect ratio	16:9		Intel® My WiFi Technology (Intel® MWT)	✔
Processor				
Processor manufacturer *	Intel		Intel® Anti-Theft Technology (Intel® AT)	✔
Processor family *	Intel® Core™ i7		Intel® Identity Protection Technology (Intel® IPT)	✔
Processor generation	2nd gen Intel® Core™ i7			
Processor model *	i7-2640M		Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Processor cores	2		Intel® Turbo Boost Technology	2.0
Processor threads	4		Enhanced Intel SpeedStep Technology	✔
Processor boost frequency	3,5 GHz			
Processor frequency *	2,8 GHz		Intel® Clear Video HD Technology (Intel® CVT HD)	✔
System bus rate	5 GT/s			
Processor cache	4 MB		Intel Clear Video Technology	✖
Processor cache type	Smart Cache		Intel® InTru™ 3D Technology	✔
Processor lithography	32 nm		Intel® Insider™	✔
Processor operating modes	64-bit			
Processor series	Intel Core i7-2600 Mobile Series		Intel® Quick Sync Video Technology	✔
Processor codename	Sandy Bridge		Intel Flex Memory Access	✔
Bus type	DMI		Intel® Smart Cache	✔
FSB Parity	✖		Intel® AES New Instructions (Intel® AES-NI)	✔
Stepping	J1			
Thermal Design Power (TDP)	35 W		Intel Trusted Execution Technology	✔
Tjunction	100 C			

Processor

Maximum number of PCI Express lanes	16
PCI Express slots version	2.0
PCI Express configurations	1x16, 2x8
CPU multiplier (bus/core ratio)	28
ECC supported by processor	✗

Memory

Internal memory *	4 GB
Internal memory type	DDR3-SDRAM
Memory clock speed	1066 MHz
Memory slots	2x SO-DIMM
Maximum internal memory *	8 GB

Storage

Total storage capacity *	160 GB
Storage media *	SSD
Number of SSDs installed	1
SSD capacity	160 GB
SSD interface	SATA II
Optical drive type *	DVD±RW
Card reader integrated	✔
Compatible memory cards	MMC, SDHC, SDXC

Graphics

Discrete graphics card model *	NVIDIA® Quadro® NVS 4200M
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 3000
On-board graphics card base frequency	650 MHz
On-board graphics card dynamic frequency (max)	1300 MHz
On-board graphics card ID	0x116
Number of discrete graphics cards	1
Maximum graphics card memory	1,024 GB

Audio

Audio system	HDA
Built-in speaker(s)	✔
Built-in microphone	✔

Network

Wi-Fi	✔
Wi-Fi standards	802.11a, 802.11b, 802.11g
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	3.0+HS
Cabling technology	10/100/1000Base-T(X)

Ports & interfaces

USB 2.0 ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Ethernet LAN (RJ-45) ports	1
DisplayPorts quantity	1
DVI port	✗
VGA (D-Sub) ports quantity	1
Headphone outputs	1
S/PDIF out port	✗
Microphone in	✔

Processor special features

Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✗
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	37.5 x 37.5 (rPGA988B); 31 x 24 (BGA1023)
Supported instruction sets	AVX
Processor code	SR03R
CPU configuration (max)	1
Embedded options available	✗
Graphics & IMC lithography	32 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1,00
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✔
Intel FDI Technology	✔
Intel Rapid Storage Technology	✗
Intel Fast Memory Access	✔
Processor ARK ID	53464
Conflict-Free processor	✗
Integrated 4G WiMAX	✔

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	6
Battery life (max)	5,5 h

Power

AC adapter power	90 W
AC adapter frequency	50 - 60 Hz
DC-in jack	✔

Security

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

Certificates

Compliance certificates	RoHS

Sustainability

Sustainability certificates	EPEAT Gold, ENERGY STAR

Weight & dimensions

Width	342,9 mm
Depth	231,1 mm
Height	25,4 mm
Weight *	1,68 kg

Packaging content

AC adapter included *	✔

Ports & interfaces		**Other features**	
Line-in	✔	LightScribe	✘
Docking connector	✘	Infrared data port	✘
ExpressCard slot	✔	Graphics card family	Intel, NVIDIA
CardBus PCMCIA slot type	✘	Display	TFT
SmartCard slot	✘	Ethernet interface type	Fast Ethernet, Gigabit Ethernet
TV-out	✘	Indication light	✔
		HD-Ready	✔
Performance		Intel segment tagging	Home office, Small Business
Motherboard chipset	Intel® QM67 Express		

Keyboard	
Pointing device	Touchpad
Numeric keypad *	✘

Ports & interfaces		**Other features**	
Line-in	✔	LightScribe	✘
Docking connector	✘	Infrared data port	✘
ExpressCard slot	✔		

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