Lenovo

Lenovo ThinkPad T520 + Mini Dock Series 3 (EU) Intel® Core™ i5 i5-2410M 39,6 cm (15.6") 4 GB DDR3-SDRAM 320 GB HDD Wi-Fi 4 (802.11n) Windows 7 Professional

Brand : Lenovo

Product family: ThinkPad

Product code: NW64BMH-BUN2

Product name : T520 + ThinkPad Mini Dock Series 3 (EU)

Intel Core i5-2410M (2.30GHz), 4GB RAM, 320GB 7200rpm HD, 15.6in 1366x768 LCD, Intel HD Graphics, CDRW/DVDRW, Intel 802.11bgn, Bluetooth, Modem, 1Gb Ethernet, UltraNav, Secure Chip, FPR, Camera, 6c Li-Ion, Windows 7 Professional 64 + ThinkPad Mini Dock Series 3 (EU)

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Designed for portability and power.
ThinkPad® T Series notebooks are considered Lenovo's Enterprise Best Choice, offering a thin and light design with no-compromise performance at an exceptional price. Plus, with a potential for up to 24 hours of battery life, you can do business anywhere.

Display

Display diagonal *	39,6 cm (15.6")
Display resolution *	1366 x 768 pixels
LED backlight	✔
Native aspect ratio	16:9
Display brightness	220 cd/m²
Contrast ratio (typical)	500:1

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i5
Processor generation	2nd gen Intel® Core™ i5
Processor model *	i5-2410M
Processor cores	2
Processor threads	4
Processor boost frequency	2,9 GHz
Processor frequency *	2,3 GHz
System bus rate	5 GT/s
Processor cache	3 MB
Processor cache type	Smart Cache
Processor socket	BGA 1023
Processor lithography	32 nm
Processor operating modes	64-bit
Processor series	Intel Core i5-2400 Mobile Series
Processor codename	Sandy Bridge
Bus type	DMI
FSB Parity	✖
Stepping	J1
Thermal Design Power (TDP)	35 W
Tjunction	100 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	2.0
PCI Express configurations	1x8, 1x16, 2x4, 2x8
CPU multiplier (bus/core ratio)	23
ECC supported by processor	✖

Ports & interfaces

SmartCard slot	✔
TV-out	✖

Performance

Motherboard chipset	Intel® QM67 Express

Keyboard

Pointing device	ThinkPad UltraNav
Numeric keypad *	✖
Keyboard layout	QWERTY

Software

Operating system architecture	64-bit
Operating system installed *	Windows 7 Professional

Processor special features

Intel® Wireless Display (Intel® WiDi)	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel® Anti-Theft Technology (Intel® AT)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
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	✔

Memory

Internal memory *	4 GB
Internal memory type	DDR3-SDRAM
Memory clock speed	1333 MHz
Memory layout (slots x size)	2 x 2 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	8 GB

Storage

Total storage capacity *	320 GB
Storage media *	HDD
Number of hard drives installed	1
Hard drive interface	SATA
Hard drive speed	7200 RPM
Optical drive type *	DVD±RW
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 3000
On-board graphics card base frequency	650 MHz
On-board graphics card dynamic frequency (max)	1200 MHz
On-board graphics card ID	0x116

Audio

Audio system	High Definition Audio
Number of built-in speakers	2
Speaker power	1 W
Built-in microphone	✔

Network

Wi-Fi	✔
Top Wi-Fi standard *	Wi-Fi 4 (802.11n)
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN	✔
Bluetooth	✔
Bluetooth version	3.0+HS
Cabling technology	10/100/1000Base-T(X)

Ports & interfaces

USB 2.0 ports quantity *	4
Ethernet LAN (RJ-45) ports	1
DisplayPorts quantity	1
DVI port	✘
VGA (D-Sub) ports quantity	1
Firewire (IEEE 1394) ports	1
Headphone outputs	1
S/PDIF out port	✘
Microphone in	✔
Docking connector	✔
ExpressCard slot	✔
CardBus PCMCIA slot type	✘

Processor special features

Intel® AES New Instructions (Intel® AES-NI)	✘
Intel Trusted Execution Technology	✘
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	37.5x37.5 (rPGA988B); 31 x 24 (BGA1023)
Supported instruction sets	AVX
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	52224
Conflict-Free processor	✘
Integrated 4G WiMAX	✔

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	6
Battery life (max)	7,7 h

Power

DC-in jack	✔

Security

Cable lock slot	✔
Cable lock slot type	IBM
Fingerprint reader	✔

Weight & dimensions

Width	372,8 mm
Depth	245,1 mm
Height (front)	3,18 cm
Height (rear)	3,56 cm
Weight *	2,51 kg

Other features

Infrared data port	✘
Graphics card family	Intel
Intel segment tagging	Home office, Small Business

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