



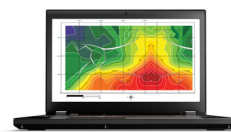
Lenovo ThinkPad P51 Intel® Core™ i7 i7-7700HQ Mobilne radne stanice 39,6 cm (15.6") Full HD 8 GB DDR4-SDRAM 512 GB SSD NVIDIA® Quadro® M1200 Wi-Fi 5 (802.11ac) Windows 10 Pro Crno

Brand : Lenovo

Product family: ThinkPad

Product code: 20HH001QUK

Product name : P51



Lenovo ThinkPad P51. Tip proizvoda: Mobilne radne stanice, Standard veličine: Preklopnik. Porodica procesora: Intel® Core™ i7, Procesor: i7-7700HQ, Takt procesora: 2,8 GHz. Dijagonala monitora: 39,6 cm (15.6"), Tip visoke definicije (HD): Full HD, Rezolucije ekrana: 1920 x 1080 piksela. Interna memorija: 8 GB, Vrsta interne memorije: DDR4-SDRAM. Ukupni prostor za podatke: 512 GB, Medijum za skladištenje: SSD. Model instalirane grafičke kartice: Intel® HD Graphics 630. Instalirani operativni sistem: Windows 10 Pro. Boja proizvoda: Crno



Design		Keyboard	
Product type *	Mobile workstation	Pointing device	ThinkPad UltraNav
Product colour *	Black	Numeric keypad *	✓
Form factor *	Clamshell	Keyboard backlight	✓
Housing material	Aluminium, Glass-reinforced plastic (GRP), Magnesium	Spill-resistant keyboard	✓
Market positioning	High performance	Full-size keyboard	✓
Display		Windows keys	✓
Display diagonal *	39.6 cm (15.6")	Software	
Display resolution *	1920 x 1080 pixels	Operating system architecture	64-bit
Touchscreen *	✗	Operating system installed *	Windows 10 Pro
HD type	Full HD	Processor special features	
Panel type	IPS	Intel® Wireless Display (Intel® WiDi)	✓
LED backlight	✓	Intel® My WiFi Technology (Intel® MWT)	✓
Native aspect ratio	16:9	Intel® Smart Response Technology	✓
Display surface	Matt	Intel® Identity Protection Technology (Intel® IPT)	✓
Screen shape	Flat	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor		Intel® Turbo Boost Technology	2.0
Processor manufacturer *	Intel	Enhanced Intel SpeedStep Technology	✓
Processor family *	Intel® Core™ i7	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor generation	7th gen Intel® Core™ i7	Intel Clear Video Technology	✓
Processor model *	i7-7700HQ	Intel® InTru™ 3D Technology	✓
Processor cores	4	Intel® Quick Sync Video Technology	✓
Processor threads	8	Intel Flex Memory Access	✓
Processor boost frequency	3.8 GHz	Intel® Smart Cache	✓
Processor frequency *	2.8 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
System bus rate	8 GT/s	Intel Trusted Execution Technology	✗
Processor cache	6 MB	Intel Enhanced Halt State	✓
Processor cache type	Smart Cache	Intel VT-x with Extended Page Tables (EPT)	✓
Processor lithography	14 nm	Intel® Secure Key	✓
Processor operating modes	64-bit	Intel TSX-NI	✗
Processor series	Intel Core i7-7700 Mobile Series		
Processor codename	Kaby Lake		
Bus type	DMI3		
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		
Tjunction	100 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	16	Intel Stable Image Platform Program (SIPP)	✗
PCI Express slots version	3.0	Intel® OS Guard	✓
PCI Express configurations	1x16, 1x8, 2x4, 2x8	Intel Software Guard Extensions (Intel SGX)	✓
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	DDR4-SDRAM	Idle States	✓
Memory clock speed	2400 MHz	Thermal Monitoring Technologies	✓
Memory form factor	SO-DIMM	Processor package size	42 x 28 mm
Memory layout (slots x size)	1 x 8 GB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Memory slots	4x SO-DIMM	CPU configuration (max)	1
Maximum internal memory *	64 GB	Embedded options available	✗
Storage		Graphics & IMC lithography	14 nm
Total storage capacity *	512 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Storage media *	SSD	Intel Identity Protection Technology version	1.00
Number of SSDs installed	1	Intel Smart Response Technology version	1.00
SSD capacity	512 GB	Intel Stable Image Platform Program (SIPP) version	0.00
SSD form factor	M.2	Intel Secure Key Technology version	1.00
Optical drive type *	✗	Intel Small Business Advantage (SBA) version	1.00
Card reader integrated	✓	Intel TSX-NI version	0.00
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Virtualization Technology (VT-x)	✓
Graphics		Processor ARK ID	97185
Discrete graphics card model *	NVIDIA® Quadro® M1200	Conflict-Free processor	✓
Discrete graphics card memory	4 GB	Battery	
On-board graphics card *	✓	Battery technology	Lithium Polymer (LiPo)
Discrete graphics card *	✓	Number of battery cells	6
On-board graphics card family	Intel® HD Graphics	Battery capacity *	90 Wh
On-board graphics card model *	Intel® HD Graphics 630	Battery life (max)	6.1 h
On-board graphics card base frequency	350 MHz	Power	
On-board graphics card dynamic frequency (max)	1100 MHz	AC adapter power	170 W
Maximum on-board graphics card memory	64 GB	AC adapter frequency	50 - 60 Hz
On-board graphics card DirectX version	12.0	AC adapter input voltage	100 - 240 V
On-board graphics card OpenGL version	4.4	DC-in jack	✓
On-board graphics card ID	0x591B	Security	
Audio		Cable lock slot	✓
Audio chip	Realtek ALC3268	Fingerprint reader	✓
Number of built-in speakers	2	Trusted Platform Module (TPM)	✓
Speaker power	2 W	Password protection	✓
Built-in microphone	✓	Password protection type	HDD, Power on, Supervisor
Camera		Certificates	
Front camera	✓	Compliance certificates	RoHS
Front camera resolution	1280 x 720 pixels	Sustainability	
Front camera signal format	720p	Sustainability certificates	ENERGY STAR
Network		Weight & dimensions	
Wi-Fi	✓	Width	377.4 mm
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)	Depth	252.3 mm
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Height (front)	2.45 cm
Ethernet LAN	✓	Height (rear)	2.94 cm
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		
Bluetooth version	4.1		

Ports & interfaces		Weight & dimensions	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Weight *	2.67 kg
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1	Packaging content	
Ethernet LAN (RJ-45) ports	1	AC adapter included *	✓
HDMI ports quantity *	1	Manual	✓
HDMI version	1.4b	Quick start guide	✓
Mini DisplayPorts quantity	1	Power cord included	✓
DVI port	✗	Other features	
Microphone in	✗	LightScribe	✗
Combo headphone/mic port	✓	3D	✗
Docking connector	✓	Maximum internal memory (64-bit)	64 GB
SmartCard slot	✓	Colour sensor	✓
USB Sleep-and-Charge	✓		
USB Sleep-and-Charge ports	1		
Performance			
Motherboard chipset	Intel® CM238		

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