



## Lenovo ThinkPad P50 Intel® Core™ i7 i7-6820HQ Mobile workstation 39.6 cm (15.6") 16 GB DDR4-SDRAM 256 GB SSD Windows 10 Pro Black

**Brand :** Lenovo

**Product family:** ThinkPad

**Product code:** 20EQS1CG00

**Product name :** P50

Intel Xeon E3-1505M v5, 2.80GHz, 1920 x 1080, 16GB DDR4, 256GB SSD, Windows 10(Windows 7 Professional Downgrade)

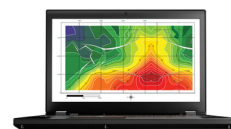
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### ThinkPad P50

#### REDEFINING POWER IN A 15.6" MOBILE WORKSTATION.

The ThinkPad P50 redefines the concept of power. The latest generation Intel® processors, optional X-Rite® PANTONE® color calibration, Mil-Spec tested for durability, blazing fast connection speeds, and unprecedented storage and memory make this workstation your go-to PC for getting the job done.

Lenovo ThinkPad P50. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-6820HQ, Processor frequency: 2.7 GHz. Display diagonal: 39.6 cm (15.6"), Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 256 GB, Storage media: SSD. On-board graphics card model: Intel® HD Graphics 530. Operating system installed: Windows 10 Pro. Product color: Black



Design		Software	
Product type *	Mobile workstation	Operating system architecture	64-bit
Product color *	Black	Operating system installed *	Windows 10 Pro
Form factor *	Clamshell	<b>Processor special features</b>	
Display		Intel® Wireless Display (Intel® WiDi)	✓
Display diagonal *	39.6 cm (15.6")	Intel® My WiFi Technology (Intel® MWT)	✓
Display resolution *	1920 x 1080 pixels	Intel® Smart Response Technology	✓
Panel type	IPS	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
Processor		Intel® Small Business Advantage (Intel® SBA)	✓
Processor manufacturer *	Intel	Enhanced Intel SpeedStep Technology	✓
Processor family *	Intel® Core™ i7	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor generation	6th gen Intel® Core™ i7	Intel Clear Video Technology	✓
Processor model *	i7-6820HQ	Intel® InTru™ 3D Technology	✓
Processor cores	4	Intel® Insider™	✓
Processor threads	8	Intel® Quick Sync Video Technology	✓
Processor boost frequency	3.6 GHz	Intel Flex Memory Access	✓
Processor frequency *	2.7 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
System bus rate	8 GT/s	Intel Trusted Execution Technology	✓
Processor cache	8 MB	Intel Enhanced Halt State	✓
Processor cache type	Smart Cache	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket	BGA 1440	Intel® Secure Key	✓
Processor lithography	14 nm	Intel TSX-NI	✓
Processor operating modes	64-bit	Intel Stable Image Platform Program (SIPP)	✓
Processor series	Intel Core i7-6800 Mobile Series		
Processor codename	Skylake		
Bus type	DMI3		
Stepping	R0		
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		
Tjunction	100 °C		
Maximum number of PCI Express lanes	16		

Processor		Processor special features	
PCI Express slots version	3.0	Intel® OS Guard	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	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 *	16 GB	Execute Disable Bit	✓
Internal memory type	DDR4-SDRAM	Idle States	✓
Memory clock speed	2133 MHz	Thermal Monitoring Technologies	✓
Memory form factor	SO-DIMM	Processor package size	42 x 28 mm
Memory slots	4x SO-DIMM	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Maximum internal memory *	64 GB	Processor code	SR2FU
Storage		CPU configuration (max)	1
Total storage capacity *	256 GB	Embedded options available	✗
Storage media *	SSD	Graphics & IMC lithography	14 nm
Optical drive type *	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Card reader integrated	✓	Intel Identity Protection Technology version	1.00
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC	Intel Smart Response Technology version	1.00
Graphics		Intel Stable Image Platform Program (SIPP) version	1.00
On-board graphics card *	✓	Intel Secure Key Technology version	1.00
On-board graphics card model *	Intel® HD Graphics 530	Intel Small Business Advantage (SBA) version	1.00
On-board graphics card base frequency	350 MHz	Intel TSX-NI version	1.00
On-board graphics card dynamic frequency (max)	1050 MHz	Intel Virtualization Technology (VT-x)	✓
Maximum on-board graphics card memory	1.7 GB	Processor ARK ID	88970
On-board graphics card DirectX version	12.0	Conflict-Free processor	✓
On-board graphics card OpenGL version	4.4	Battery	
On-board graphics card ID	0x191B	Battery technology	Lithium Polymer (LiPo)
Audio		Number of battery cells	6
Number of built-in speakers	2	Battery capacity *	90 Wh
Speaker power	2 W	Battery life (max)	9.7 h
Built-in microphone	✓	Power	
Camera		AC adapter power	170 W
Front camera	✓	DC-in jack	✓
Front camera signal format	720p	Security	
Network		Cable lock slot	✓
Wi-Fi	✓	Fingerprint reader	✓
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Trusted Platform Module (TPM)	✓
Ethernet LAN	✓	Password protection	✓
Ethernet LAN data rates	10,100,1000 Mbit/s	Password protection type	HDD, Power on, Supervisor
Bluetooth	✓	Certificates	
Bluetooth version	4.1	Compliance certificates	RoHS
Ports & interfaces		Sustainability	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Sustainability certificates	ENERGY STAR
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1	Weight & dimensions	
Ethernet LAN (RJ-45) ports	1	Width	377.4 mm
HDMI ports quantity *	1	Depth	252.3 mm
HDMI version	1.4b	Packaging content	
Mini DisplayPorts quantity	1	AC adapter included *	✓
DVI port	✗	Power cord included	✓
Combo headphone/mic port	✓		
Docking connector	✓		

**Ports & interfaces**

SmartCard slot	✓
USB Sleep-and-Charge	✓
USB Sleep-and-Charge ports	1

**Keyboard**

Pointing device	ThinkPad UltraNav
Numeric keypad *	✓
Keyboard backlit	✓
Island-style keyboard	✓
Windows keys	✓

## Catalog Object Cloud



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