



## Lenovo ThinkPad P70 Intel® Xeon® E3 v5 E3-1505MV5 Mobile workstation 43,9 cm (17.3") 4K Ultra HD 32 GB DDR4-SDRAM 1,02 TB SSD NVIDIA® Quadro® M5000M Wi-Fi 5 (802.11ac) Windows 7 Professional Black



**Brand :** Lenovo

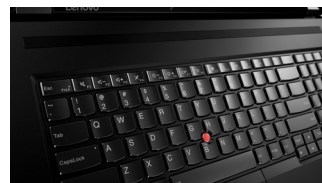
**Product family:** ThinkPad

**Product code:** 20ES0005MS

**Product name :** P70

43.942 cm (17.3 ") 4K LED 3840 x 2160, Intel Xeon E3-1505M v5 (2.8 GHz), 32GB DDR4, 2 x 512GB SSD, NVIDIA Quadro M5000M 8GB, Gigabit Ethernet, WLAN 802.11 ac/a/b/g/n, Bluetooth, Windows 7 Pro 64-Bit

Lenovo ThinkPad P70. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Xeon® E3 v5, Processor model: E3-1505MV5, Processor frequency: 2,8 GHz. Display diagonal: 43,9 cm (17.3"), HD type: 4K Ultra HD, Display resolution: 3840 x 2160 pixels. Internal memory: 32 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1,02 TB, Storage media: SSD, Optical drive type: DVD±RW. Operating system installed: Windows 7 Professional. Product colour: Black



Design		Performance	
Product type *	Mobile workstation	Motherboard chipset	Intel CM236
Product colour *	Black	<b>Keyboard</b>	
Form factor *	Clamshell	Pointing device	ThinkPad UltraNav
Display		Numeric keypad *	✓
Display diagonal *	43,9 cm (17.3")	Keyboard backlight	✓
Display resolution *	3840 x 2160 pixels	Spill-resistant keyboard	✓
Touchscreen *	✗	Windows keys	✓
HD type	4K Ultra HD	Software	
Panel type	IPS	Operating system architecture	64-bit
LED backlight	✓	Operating system installed *	Windows 7 Professional
Native aspect ratio	16:9	Processor special features	
Processor		Intel® Wireless Display (Intel® WiDi)	✓
Processor manufacturer *	Intel	Intel® My WiFi Technology (Intel® MWT)	✓
Processor family *	Intel® Xeon® E3 v5	Intel® Smart Response Technology	✓
Processor model *	E3-1505MV5	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cores	4	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	8	Intel® Turbo Boost Technology	2.0
Processor boost frequency	3,7 GHz	Intel® Small Business Advantage (Intel® SBA)	✓
Processor frequency *	2,8 GHz	Enhanced Intel SpeedStep Technology	✓
System bus rate	8 GT/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache	8 MB	Intel Clear Video Technology	✓
Processor cache type	Smart Cache	Intel® InTru™ 3D Technology	✓
Processor socket	BGA 1440	Intel® Insider™	✓
Processor lithography	14 nm	Intel® Quick Sync Video Technology	✓
Processor operating modes	64-bit	Intel Flex Memory Access	✓
Processor series	Intel Xeon E3-1500M v5	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor codename	Skylake	Intel Trusted Execution Technology	✓
Bus type	DMI3	Intel Enhanced Halt State	✓
Stepping	R0		
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		
Tjunction	100 °C		
Maximum number of PCI Express lanes	16		
PCI Express slots version	3.0		
PCI Express configurations	1x16, 2x8, 1x8+2x4		
ECC supported by processor	✓		

Memory		Processor special features	
Internal memory *	32 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory type	DDR4-SDRAM	Intel® Secure Key	✓
Memory clock speed	2133 MHz	Intel TSX-NI	✓
Memory form factor	SO-DIMM	Intel Stable Image Platform Program (SIPP)	✓
Memory layout (slots x size)	4 x 8 GB	Intel® OS Guard	✓
Memory slots	4x SO-DIMM	Intel Software Guard Extensions (Intel SGX)	✓
Maximum internal memory *	64 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Storage		Intel 64	✓
Total storage capacity *	1,02 TB	Execute Disable Bit	✓
Storage media *	SSD	Idle States	✓
Number of SSDs installed	2	Thermal Monitoring Technologies	✓
Solid-state drive capacity	512 GB	Processor package size	42 x 28 mm
Optical drive type *	DVD±RW	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Card reader integrated	✓	Processor code	SR2FN
Compatible memory cards	MMC, SD, SDHC, SDXC	CPU configuration (max)	1
Graphics		Embedded options available	✓
Discrete graphics card model *	NVIDIA® Quadro® M5000M	Graphics & IMC lithography	14 nm
Discrete graphics card memory	8 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card *	✓	Intel Identity Protection Technology version	1,00
Discrete graphics card *	✓	Intel Smart Response Technology version	1,00
On-board graphics card family	Intel® HD Graphics	Intel Stable Image Platform Program (SIPP) version	1,00
On-board graphics card model *	Intel® HD Graphics P530	Intel Secure Key Technology version	1,00
On-board graphics card base frequency	350 MHz	Intel Small Business Advantage (SBA) version	1,00
On-board graphics card dynamic frequency (max)	1050 MHz	Intel TSX-NI version	1,00
Maximum on-board graphics card memory	1,7 GB	Intel Virtualization Technology (VT-x)	✓
On-board graphics card DirectX version	12.0	Processor ARK ID	89608
On-board graphics card OpenGL version	4.4	Conflict-Free processor	✓
On-board graphics card ID	0x191D	Battery	
Audio		Battery technology	Lithium-Ion (Li-Ion)
Number of built-in speakers	2	Number of battery cells	8
Speaker power	2 W	Battery capacity *	96 Wh
Built-in microphone	✓	Battery life (max)	8,5 h
Camera		Power	
Front camera	✓	AC adapter power	270 W
Network		DC-in jack	✓
Wi-Fi	✓	Security	
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)	Cable lock slot	✓
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Fingerprint reader	✓
Ethernet LAN	✓	Trusted Platform Module (TPM)	✓
Ethernet LAN data rates	10,100,1000 Mbit/s	Password protection	✓
Bluetooth	✓	Weight & dimensions	
Bluetooth version	4.1	Width	416 mm
Ports & interfaces		Depth	275,5 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Height (front)	2,99 cm
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	2	Height (rear)	3,42 cm
Ethernet LAN (RJ-45) ports	1	Weight *	3,3 kg
HDMI ports quantity *	1	Packaging content	
Mini DisplayPorts quantity	1	AC adapter included *	✓
DVI port	✗		
Combo headphone/mic port	✓		

Ports & interfaces		Other features	
Docking connector	✓	Intel segment tagging	Professional
ExpressCard slot	✓		
SmartCard slot	✓		
USB Sleep-and-Charge	✓		
USB Sleep-and-Charge ports	1		

## Catalog Object Cloud



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