ThinkPad P51 Platform Specifications

of

Processor

i7-6820HQ

Number

Processor

WLAN

Bluetooth™

WWAN (optional)

SIM card (opt)

				8MB	DDR4-2133			
	E3-1505M v5			2.8 GHz	3.7 GHz	OIVID	DDN4-2133	Intel HD Graphics P530
	i7-7700HQ	4	8	2.8 GHz	3.8 GHz	6MB		Intel HD Graphics
	i7-7820HQ E3-1505M v6			2.9 GHz	3.9 GHz	8MB	DDR4-2400	630
				3.0 GHz	4.0 GHz			Intel HD Graphics
	E3-1535M v6			3.1 GHz	4.2 GHz			P630
Graphics	Intel HD Gra NVIDIA Quad supports ext Up to 4 displ Max resolution	dro® M ernal c ays wi on: 38	1200 or ligital mo th 3 exte 40x2160	M2200, 4G onitor via Hl rnal monito 0@60Hz (D	B memory DMI, Mini I ors plus sys isplayPort	; Display stem L via Mir	/Port, or Thu CD screen. ni DisplayPo	•
Chipset Memory	Mobile Intel CM238 Chipset 64GB max / 2400MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets * System clocks down for processors with lower memory controller							
Display Multi-touch (opt) Pen (optional)	16:9 Some: 15.6	aspec " (396r aspec pe mu	t ratio, 70 nm) 4K (t ratio, 10 ılti-touch	00:1 contra (3840x2160 000:1 contr , supports	st ratio, 16)), anti-glar ast ratio, 1 10-finger g	0° viev e, LEI 00% g esture	wing angle D backlight, amut, 170°	t, WVA, 250 nits, WVA, 300 nits, viewing angle HD only)
Storage RAID (optional) Optical	Up to 3 drives (two M.2 SSD and one HDD), supports single sided M.2 2280 drives only Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s RAID 0/1 support None							
Ethernet	Non-vPro mov						ksonville) acksonville)	

 Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802,11ac + BT4.1, M.2 card

Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card

Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (ÉMEA) SIM card

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter * Intel 8260ac / 8265ac card support BT4.2 but is limited to BT4.1 by Windows OS

6th or 7th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 or v6 Family

Cores Threads Frequency

Base

2.7 GHz

Max Turbo

Frequency

3.6 GHz

Cache

8MB

Memory

Types

DDR4-2133

Processor

Graphics Intel HD Graphics

530

of

One of the following, configurable by model:

One of the following, configurable by model:

Integrated Mobile Broadband 4G LTE-A.

Wireless WAN upgradable

Dimensions	WxDxH:	14.86" x 9.93" x 0.96	-1.16"; 377.4mm x 2	252.3mm x 24.5-29.4mm 252.3mm x 25.8-30.7mm					
Weight	Models	1. 14.00 X 9.93 X 1.02 4-cell	6-cell	232.311111 X 23.6-30.7111111					
	Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg						
	Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg						
Case color Case material	Black Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum								
Smart card reade ExpressCard Media reader Ports	r Optional: Smart card reader One slot (ExpressCard/34) 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card Four USB 3.1 Gen 1 (USB 3.0, one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort 1.2a, HDMI 1.4b, Ethernet (RJ-45), Dock connector * Depending on many factors, actual data transfer speed may be lower than theoretical speed								
Camera (optional, Audio support	amera (optional) HD720p resolution, fixed focus udio support HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack								
Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight 3-button TrackPoint® pointing device and 3-button Mylar surface multi-touch touchpad								
Security Security chip vPro (optional) Fingerprint reader Color calibration NFC	y chip Discrete TPM 2.0, TCG Certified prior Discrete TPM 2.0, TCG Cer								
Battery	Lithium Polyme	er 4-cell (66Wh) or 6-cel	l (90Wh)						
Max battery life ¹⁰ (MobileMark® 2014)	Model	4-cell	6-cell						
	Discrete Graphic	cs 4.5 hr	6.1 hr						
	Hybrid Graphics	6.5 hr	8.9 hr						
AC adapter	*Battery life varies significantly with hardware configurations, settings, usage, & other factors 170W slim tip AC adapter								
Operating system	ng system One of the following, configurable by model: • Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Windows® 10 Home 64 • Windows 10 Pro 64 • Windows 10 Pro 64 for Workstations								
Limited warranty	One of the following, configurable by model: 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service								
Mil-Spec test	MIL-STD-810G military testing								
Environment	EPEAT™ Gold	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant							

Lenovo Note: The specifications above may not be available in all regions. November 2019