ThinkPad P17 Gen 1 Platform Specifications

Processor Chipset Ir Memory Type Someony Sockets 4 Memory Protection Emax Memory 11 Graphics	Proce Xeon Xeon Core Core Core Core Core t DIM ECC 128G		# of Cores 8 8 8 8 8 6 6 4 set 3200 f 2933. 8	# of Threads 16 12 16 16 16 16 12 8 for non-18GB/166	2.4G 2.4G 2.4G 2.4G 2.4G 2.4G 2.3G 2.7G 2.6G 2.6G	Hz Hz Hz Hz Hz Hz Hz Hz Hz	Max Turbo Frequency 5.3GHz 5.1GHz 5.3GHz 5.3GHz 5.1GHz 5.1GHz 4.6GHz	Cache 16MB 12MB 16MB 16MB 12MB 12MB 12MB 8MB	Memory Types DDR4-29: DDR4-29: DDR4-29: DDR4-29: DDR4-29: DDR4-29: DDR4-29:	Gillow Gi		M S C M MBC
Processor Conjugate to the processor Chipset Ir Memory Type Someone Memory Sockets 4 Memory Protection Emax Memory 11 Graphics	Xeon Core Core Core Core Core Lore Core Lore Lore Lore Lore Lore Lore Lore L	W-10885M W-10855M i9-10980HK i9-10885H i7-10875H i7-10850H i7-10750H i5-10400H WM490 Chip IMM. DDR4-te at DDR4	8 8 8 8 6 4 set 3200 f 2933.	16 12 16 16 12 12 8 8 For non-18GB/16G	2.4G 2.8G 2.4G 2.4G 2.3G 2.7G 2.6G 2.6G	Hz Hz Hz Hz Hz Hz Hz Hz Hz	5.3GHz 5.3GHz 5.3GHz 5.3GHz 5.3GHz 5.1GHz 5.1GHz 4.6GHz	16MB 12MB 16MB 16MB 12MB 12MB 8MB	Types DDR4-29: DDR4-2	Gillow Gi	raphics el UHD aphics	
Processor Collipset Memory Type Memory Sockets Memory Protection Max Memory Graphics	Xeon Core Core Core Core Core Lore Core Lore Lore Lore Lore Lore Lore Lore L	W-10855M i9-10980HK i9-10885H i7-10875H i7-10850H i7-10750H i5-10400H WM490 Chip IMM. DDR4-te at DDR4-te at DDR4-te at DDR4-to models w	6 8 8 8 6 6 4 set 3200 f 2933. 8	12 16 16 16 12 12 8 For non-18GB/160	2.8G 2.4G 2.4G 2.3G 2.7G 2.6G 2.6G	Hz Hz Hz Hz Hz Hz Hz DR4	5.1GHz 5.3GHz 5.3GHz 5.1GHz 5.1GHz 4.6GHz	12MB 16MB 16MB 16MB 12MB 12MB 8MB	DDR4-29: DDR4-29: DDR4-29: DDR4-29: DDR4-29: DDR4-29: DDR4-29:	Gradian Gradia	aphics el UHD	S C M B C
Processor Chipset Ir Memory Type Someony Sockets 4 Memory Protection Emax Memory 11 Graphics	Core Core Core Core Core Lore Core Lore Lore Lore Lore Lore Lore Lore L	i9-10980HK i9-10885H i7-10875H i7-10850H i7-10750H i5-10400H WM490 Chip IMM. DDR4- te at DDR4- IM sockets on models w	8 8 8 6 6 4 set 3200 f 2933.8	16 16 16 12 12 8 For non-18GB/160	2.4G 2.4G 2.3G 2.7G 2.6G 2.6G	Hz Hz Hz Hz Hz	5.3GHz 5.3GHz 5.1GHz 5.1GHz 5.0GHz 4.6GHz	16MB 16MB 16MB 12MB 12MB 8MB	DDR4-29: DDR4-29: DDR4-29: DDR4-29: DDR4-29:	33 Gr 33 Into Gr 33 Into Gr 33 Into Gr 33 Into Gr 33 Into Gr 33 Into Gr	aphics el UHD aphics el UHD aphics el UHD aphics el UHD aphics el UHD aphics el UHD aphics	N B C
Processor College Chipset	Core Core Core Core Operation of DIMECO DISSE	i9-10885H i7-10875H i7-10850H i7-10750H i5-10400H WM490 Chip IMM. DDR4- tte at DDR4- IM sockets on models w	8 8 6 6 4 set 3200 f 2933.8	16 16 12 12 8 for non-18GB/166	2.4G 2.3G 2.7G 2.6G 2.6G	Hz Hz Hz Hz Hz	5.3GHz 5.1GHz 5.1GHz 5.0GHz 4.6GHz	16MB 16MB 12MB 12MB 8MB	DDR4-29: DDR4-29: DDR4-29: DDR4-29: DDR4-29:	33 Gr 33 Into Gr	aphics el UHD	C M B C
Chipset Ir Memory Type Someon Memory Sockets 4 Memory Protection Emax Memory 11 Someon Max Memory 11 Someon Max Memory 11	Core Core Core ntel V SO-D Depend	i7-10875H i7-10850H i7-10750H i5-10400H WM490 Chip IMM. DDR4- te at DDR4- IM sockets on models w	8 6 6 4 set 3200 f 2933.8	16 12 12 8 for non-laggB/160	2.3G 2.7G 2.6G 2.6G ECC, D	Hz Hz Hz Hz	5.1GHz 5.1GHz 5.0GHz 4.6GHz	16MB 12MB 12MB 8MB	DDR4-29: DDR4-29: DDR4-29: DDR4-29:	33 Gr Gr 33 Into Gr 33 Into Gr 33 Into Gr	aphics el UHD aphics	N B C
Chipset Ir Memory Type Someone Memory Sockets 4 Memory Protection E Max Memory 11 Someone Graphics	Core Core ntel V SO-D pera 1 DIM ECC	i7-10850H i7-10750H i5-10400H WM490 Chip IMM. DDR4- te at DDR4- IM sockets on models w	6 6 4 set 3200 f 2933. 8	12 12 8 for non-18GB/160	2.7G 2.6G 2.6G ECC, D	Hz Hz Hz	5.1GHz 5.0GHz 4.6GHz	12MB 12MB 8MB	DDR4-29: DDR4-29: ECC and n	33 Gr 33 Into Gr 33 Into Gr 33 Into Gr	aphics el UHD aphics el UHD aphics el UHD aphics	N N B C
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Chipset Ir Memory Type So Memory Sockets 4 Memory Protection E Max Memory 1 Graphics	ntel V SO-D opera 1 DIM ECC	i5-10400H WM490 Chip IMM. DDR4- te at DDR4- IM sockets on models w	4 set 3200 f 2933. 8	8 For non-I BGB/160	2.6G ECC, D GB/320	Hz DR4	4.6GHz	8MB ECC. E	DDR4-29	Gr 33 Into Gr	aphics el UHD aphics	B C
Chipset Ir Memory Type S Memory Sockets 4 Memory Protection E Max Memory 1. S Graphics	ntel V SO-D opera 1 DIM ECC	VM490 Chip IMM. DDR4- ite at DDR4- IM sockets on models w	set 3200 f 2933.8	or non-l 8GB/160	ECC, D GB/320	DR4	l-2933 for	ECC. E	CC and n	on-EC	aphics CC	C
Memory Type So Memory Sockets 4 Memory Protection E Max Memory 1.	SO-D pera DIM ECC 128G	IMM. DDR4- te at DDR4- IM sockets on models w	3200 f 2933. 8	BGB/160	3B/320							Δ
Memory Sockets 4 Memory Protection E Max Memory 1 S Graphics	pera DIM CC 128G	te at DDR4-2 IM sockets on models w	2933. 8	BGB/160	3B/320							
Memory Protection E Max Memory 1. S Graphics	ECC 128G	on models w	ith EC	C DIMI					=00 00			S M
Max Memory 1.	128G		ith EC									K
Graphics		R		C DIIVIIV	is and	Xeor	n processo	or				վ :`
Graphics												IJŲ
	Support one of the following discrete graphics: NVIDIA Quadro T1000, 4GB GDDR6 memory NVIDIA Quadro T2000, 4GB GDDR6 memory NVIDIA Quadro RTX 3000, 6GB GDDR6 memory NVIDIA Quadro RTX 4000 with Max-Q Design, 8GB GDDR6 memory NVIDIA Quadro RTX 5000 with Max-Q Design, 16GB GDDR6 memory							P S S S				
		Resolution					Brightness	Λ		Color Gamut	Viewing Angle	F
Display	17.3"	FHD (1920x10	080) V	VVA Ant	-glare	-	300 nits	16:9	700:1	72% NTSC	160°	B
1	17.3"	UHD (3840x21 Dolby Vision, HDR 400	160) V	VVA Ant	-glare	-	500 nits	16:9	1500:1	100% Adobe	178°	P
Color Calibration F	acto	ry Color Cali	bration	n on UH	D pane	els						ॏऻ
100011001	None											
	Vone] 0
	<u> </u>	two M.2 228), PCIe	VVMe,	2560	GB / 512G	B / 1T	B / 2TB ea	ach		
		0 / 1 suppor	t									╟
0 0 11 0 011	Vone											
Ethernet	or i21	9V for non-v			rated g	jigab	it ethernet	, Intel i	219LM for	M for vPro models		
111 0	None											
WLAN + Bluetooth B	Optional Intel Wi-Fi 6 AX201 on most models, Wi-Fi 2x2 802.11ax + Bluetooth 5.1. Bluetooth 5.1 requires the latest version of Windows 10 (version 2004 or above) One of the following, configurable by model:											
wwan •	No V	of the following	and no	on upgra dband l	dable Jpgrada	able.	No WWA	N Card 360-GL	I, WWAN A	Antenr x4. M.:	na Only 2 card	M E IS
SIM card C	Optio	nal Nano-SI	VI card	slot	,. <u></u>	, .	, , , , , , , , , , , , , , , , , , , ,		,	.,][]

	Dimensions	Width: 415.44 mm (16.36 in). Depth: 280.81 mm (11.06 in).							
1		Thickness: 25.11~ 33.25 mm (0.99 ~ 1.31 in)							
II	Weight	Starting at 3.5 kg (7.7 lb, FHD)							
1	Case color	Black							
$\ $	Case material	Display cover: GFRP 50% (PPS695 + GF 50%). Bottom: PPS + GF							
	Media reader	SD card reader							
	Standard Ports	1x USB-C (USB 3.2 Gen 1, PD, DP), 2x Thunderbolt (USB-C form, Thunderbolt 3, USB 3.2 Gen 2, PD, DP), 3x USB-A 3.2 Gen 1 (one Always-on), 1x HDMI 2.0, 1x headphone / microphone combo jack, 1x SD card reader, 1x security keyhole, 1x RJ-45							
$\ $	Optional Ports	One optional smart card reader on right, one optional Nano-SIM card slot on left							
-	Monitor support	Up to 5 displays with 4 external monitors plus system LCD screen. External monitors supported via 1x USB-C, 2x Thunderbolt, and 1x HDMI. USB-C and HDMI support up to 4K@60Hz. With Thunderbolt, one supports up to 5K@60Hz and one supports up to 4K@60Hz							
$\ $	Monitor cable	Optional HDMI to VGA, USB-C to DP, or USB-C to VGA adapters							
	Bundled Accy	None							
Ц	Camera	Optional Hybrid IR camera with ThinkShutter camera privacy, fixed focus							
	Audio chip	Realtek ALC3286 codec							
	Speaker	Stereo speakers, Dolby Atmos sound system							
	Microphone	Optional dual array far-field microphone							
-	Keyboard	6-row, spill-resistant, LED backlight, numeric keypad, multimedia Fn keys with Unified Communications controls							
	UltraNav	3-button TrackPoint pointing device and 2-button Mylar surface multi-touch touchpad							
	Password	Power-on password, hard disk password, supervisor password							
	Security chip	Discrete TPM 2.0, TCG Certified, may be disabled in some regions							
	System mgmt	Optional Intel vPro Technology supported on vPro enable models							
	Security locks	Security keyhole for optional Kensington lock							
	Smart card reader								
,	Fingerprint reader	Touch style match on chip fingerprint reader on the palm rest							
1	Battery	Integrated Li-Polymer 94Wh battery. Supports Rapid Charge (charge up to 80% in 1hr) with 230W AC adapter							
	Max battery life	MobileMark 2014: 14.6 hr. MobileMark 2018: 9.75 hr. *Battery life varies significantly with hardware configurations, settings, usage, & other factors							
	Power Adapter	One of the following: • 230W slim AC adapter • 170W slim AC adapter							
_	, ,	Supports one optional preloaded operating system as following: • Windows 10 Home 64 • Windows 10 Pro 64 • Windows 10 Pro 64 for Workstations • Ubuntu Linux LTS							
-	Base Warranty	Optional warranty plans as following: 1-year depot repair service 3-year depot repair service 1-year + 2-year depot repair service 1-year limited onsite service 1-year limited onsite service 1-year + 2-year limited onsite service 1-year depot with 2-year system board repair service							
	Mil-Spec test	MIL-STD-810G military testing							
	Environment	EPEAT Silver. ENERGY STAR 8.0. RoHS-compliant							
	ISV certifications	Please visit www.thinkworkstations.com/isv-certifications/							
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