# ThinkPad P15 Gen 1 20ST003XUS

Product

ThinkPad P15 Gen 1

Region

NA

Country/Region

USA

Machine Type

20ST

TopSeller

TopSeller

Processor

Intel Core i7-10750H (6C / 12T, 2.6 / 5.0GHz, 12MB)

Graphics

NVIDIA Quadro T1000 4GB GDDR6

Chipset

Intel WM490

Memory

2x 8GB SO-DIMM DDR4-3200 Non-ECC

Storage

512GB SSD M.2 2280 PCIe NVMe Opal2

Display

15.6" FHD (1920x1080) IPS 500nits Anti-glare, 72% Gamut, Dolby Vision HDR

Touchscreen

None

Media Reader

SD Reader

Ethernet

100/1000M

Optical

None

WLAN + Bluetooth

Intel AX201 11ax, 2x2 + BT5.1

WWAN

WWAN Upgradable

SIM Card

None

Smart Card Reader

None

Monitor Cable

None

Case Material

Top: GFRP 50% (PPS695 + GF 50%) Bottom: PPS + GF

**Bundled Accessories** 

None

Camera

720p + IR with ThinkShutter

Microphone

2x, Array

## Color

Black

Keyboard

Backlit, English

Fingerprint Reader

Touch Style, Match-on-Chip

NFC

None

TPM

Discrete TPM 2.0

Battery

Integrated 94Wh

Power Adapter

170W Slim Tip

System Management

None

Operating System

Windows 10 Pro 64. English

**Bundled Software** 

None

Base Warrantv

3-year, Depot

**Bundled Service** 

None

EAN/UPC/JAN

195235108468

End of Support

2027-02-21

Announce Date

2020-07-21

#### Recommended Services

# Best

3Y Lenovo Protect (Premier Support + Keep Your Drive + Accidental Damage Protection + Sealed Battery) (5PS0N73216)

#### Better

3Y Lenovo Support (Premier Support + Keep Your Drive + Sealed Battery) (5PS0N73159)

### Good

3Y Premier Support Upgrade from 3Y Depot/CCI (5WS0V07092)

## Notes:

**Battery life** is an estimated maximum. Actual battery life may vary based on many factors, including screen brightness, active applications, features, power management settings, battery age and conditioning, and other customer preferences.

## California Electronic Waste Recycling Fee

In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to: https://www.calrecycle.ca.gov/Electronics/Consumer



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## https://psref.lenovo.com

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	10	011 17	147.0	·o :=							
	Supports one 10th Xeon W, Core i9, i7, or i5 processor as following:									SIM card	Optional Nano-SIM card slot
Processor	Processor Number	er Co		Base Frequency	Max Turbo Frequency		Memory Types		rocessor Traphics	Dimensions	Width: 375.4 mm (14.78 in). Depth: 252.3 mm (9.93 in). Thickness for non-touch models: 24.5 - 31.45 mm (0.96 ~ 1.24 in)
	Xeon W-10885	иΙε	3 16	2.4GHz	5.3GHz	161/10	DDR4-29	og Int	tel UHD	Weight	Thickness for touch models: 25.25 ~ 32.2mm (0.99 ~ 1.27 in)  Starting at 2.74 kg (6.05 lb, FHD)
	Veol1 M-100031	VI C	) 10	2.40112	3.3GHZ	TOIVID	DDN4-29	G G	raphics	Case color	Black
	Xeon W-10855	и Г	3 12	2.8GHz	5.1GHz	12MB	DDR4-293		Intel UHD		Display cover: GFRP 50% (PPS695 + GF 50%).
	7.0001 W 100001	vi (	, ,,	2.00112				G	raphics	Case material	Bottom: PPS + GF
	Core i9-10980F	ik 8	3 16	2.4GHz	5.3GHz	16MB	DDR4-29		tel UHD	Media reader	SD card reader
	Core i9-10885H			2.4GHz			DDR4-29	u Int	raphics tel UHD raphics	Standard Ports	1x USB-C (USB 3.2 Gen 1, PD, DP), 2x Thunderbolt (USB-C form, Thunderbol 3, USB 3.2 Gen 2, PD, DP), 2x USB-A 3.2 Gen 1 (one Always-on), 1x HDMI 2.0, 1x headphone / microphone combo jack, 1x SD card reader,
								Int	tel UHD		1x security keyhole, 1x RJ-45
	Core i7-10875F	1   8	3   16	2.3GHz	5.1GHz	16MB	DDR4-293		raphics		One optional smart card reader on right, one optional Nano-SIM card slot on
	0 :7 400501			0.7011	5.4011	40145	DDD 4 00	lod	tel UHD	Optional Forts	left
	Core i7-10850F	1 6	5   12	2.7GHz	5.1GHz	12MB	DDR4-293		raphics	S D 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.
	O :7 107501		. 10	0.0011-	5 00U-	10110	DDR4-293	oo Int	tel UHD		USB-C and HDMI support up to 4K@60Hz.
	Core i7-10750F	1 6	5   12	2.6GHz	5.0GHz	12MB			raphics		With Thunderbolt, one supports up to 5K@60Hz and one supports up to
	Core i5-10400H	1 4	1 8	2.6GHz	4.6GHz	8MB	DDR4-290	oo Int	tel UHD		4K@60Hz
	Core 13-104001	1 4	• 0	2.00112	4.0GHZ			G G	aphics	Monitor cable	Optional HDMI to VGA, USB-C to DP, or USB-C to VGA adapters
Chipset										Bundled Accy	None
Memory Type	SO-DIMM. DDR4-3200 for non-ECC, DDR4-2933 for ECC. Operates at DDR4-2933.									.]_	Supports one optional camera as following:
, ,,	8GB/16GB/32GB available for both ECC and non-ECC									Camera	HD720p camera with ThinkShutter camera privacy, fixed focus     High and the company with ThinkShutter camera privacy, fixed focus
Memory Sockets	4 DIMM sockets									Audio chip	Hybrid IR camera with ThinkShutter camera privacy, fixed focus     Realtek ALC3286 codec
	ECC on models with ECC DIMMs and Xeon processor									Speaker	Stereo speakers, Dolby Atmos sound system
Max Memory	128GB									Microphone	Optional dual array far-field microphone
Graphics	Support one of the following discrete graphics:									'	6-row, spill-resistant, LED backlight, numeric keypad, multimedia Fn keys with
	<ul> <li>NVIDIA Quadro T1000, 4GB GDDR6 memory</li> <li>NVIDIA Quadro T2000, 4GB GDDR6 memory</li> </ul>									Reyboard	Unified Communications controls.
	NVIDIA Quadro 12000, 4GB GDDR6 memory     NVIDIA Quadro RTX 3000, 6GB GDDR6 memory									UltraNav	3-button TrackPoint pointing device and 2-button Mylar surface multi-touch
	<ul> <li>NVIDIA Quadro RTX 4000 with Max-Q Design, 8GB GDDR6 memory</li> </ul>									Password	touchpad Power-on password, hard disk password, supervisor password
	NVIDIA Quadro RTX 5000 with Max-Q Design, 16GB GDDR6 memory							ry		0 1: 1:	Discrete TPM 2.0, TCG Certified, may be disabled in some regions
Display	Size Resolution		Type Su	rface Touc	hBrightnes	Asped	Contrast Ratio	Color	Viewing	System mgmt	Optional Intel vPro Technology supported on vPro enable models
			71			Halic				Security locks	Security keyhole for optional Kensington lock
	15.6" FHD (1920)	(1080)	WVA Ant	-glare -	300 nits	16:9	700:1	72% NTSC	160°	Smart card reade	
								11130	′		Touch style match on chip fingerprint reader on the palm rest
	FHD (1920) 15.6" Dolby Visior	FHD (1920x1080)	WVA Ant	- dara	500 nits	16:9	1200:1	72%	160°	l .	Integrated Li-Polymer 94Wh battery. Supports Rapid Charge (charge up to 80%)
	HDR 400		WWA AIII	-giaie -	300 11113	10.3	1200.1	NTSC	; 100	Battery	in 1hr) with 230W AC adapter
	UHD (3840) 15.6" Dolby Vision		WVA Ant	-glare -	600 nits	16:9	1400:1	100% Adobe		Max battery life	MobileMark 2014: 16.4 hr. MobileMark 2018: 10.3 hr
	HDR 400							Adobe		l	* Battery life varies significantly with hardware configurations, settings, usage, & other factors  One of the following:
	UHD (3840)	v2160\	A	nti-	SDR 400nit,			100% DCI- P3	170°	Power Adapter	• 230W slim AC adapter
	15.6" Dolby Vision		OI ED reii	ection mul	h HDR 500nit	16:9	100000:1				170W slim AC adapter
	HDR 400			Anti- touc							Supports one optional preloaded operating system as following:
0 1 0 "" "	(реак)										• Windows 10 Home 64
Color Calibration	Factory Color C				-lalaa	10	£	h		Operating system	Windows 10 Pro 64     Windows 10 Pro 64 for Workstations
Touchscreen	Touch enable or Optional Lenovo			OLED MO	deis, suppo	orts 10-	inger ges	ture		_	Ubuntu Linux LTS
Pen Storage				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	COD / E40/	D / 4T	D / OTD as			-	Fedora Linux
	Up to two M.2 2280 SSD, PCIe NVMe, 256GB / 512GB / 1TB / 2TB each										Optional warranty plans as following:
RAID	RAID 0 / 1 support									Page Warranty	• 1-year depot repair service
Optical	None										3-year depot repair service     1-year + 2-year depot repair service
Ethernet	One onboard GbE port via integrated gigabit ethernet, Intel i219LM for vPro models								models		• 1-year limited onsite service
NFC	or i219V for non-vPro models  None										3-year limited onsite service
	Optional Intel Wi-Fi 6 AY201 on most models. Wi-Fi 2v2 802 11ay + Bluetooth 5 1									-	• 1-year + 2-year limited onsite service
Bluetooth 5.1 requires the latest version of Windows 10 (version 2004 or above)								Mil-Spec test	1-year depot with 2-year system board repair service     MIL-STD-810G military testing		
	One of the following, configurable by model:									Environment	EPEAT Gold. ENERGY STAR 8.0. RoHS-compliant
WWAN	No WWAN card and non upgradable								O!	ISV certifications	Please visit www.thinkworkstations.com/isv-certifications/
	• Integrated Mobile Broadband Upgradable, No WWAN Card, WWAN Antenna Only									io v continuations	1 10000 VIOIL WWW.tillingworkstations.com//15V-CCI tillications/
	• Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 4x4, M.2 card Note: WWAN cannot be supported on UHD WVA models								.∠ caiu		
											Lenovo July 202











