## ThinkPad T590 20N4000GBM

**Product** 

ThinkPad T590

Region

EET

Country/Region

Bulgaria

Machine Type

20N4

TopSeller

TopSeller

**Processor** 

Core i5-8265U (4C / 8T, 1.6 / 3.9GHz, 6MB)

Graphics

NVIDIA GeForce MX250 2GB GDDR5

Chipset

Intel SoC Platform

Memory

8GB Soldered DDR4-2400

Display

15.6" FHD (1920x1080) IPS 250nits Anti-glare

Multi-touch

None

Storage

512GB SSD M.2 2280 PCIe NVMe Opal2

Optical

None

WLAN + Bluetooth

Intel 9560 11ac, 2x2 + BT5.0

**WWAN** 

Fibocom L830-EB

SIM Card

None

Smart Card Reader

Smart Card Reader

Monitor Cable

None

**Bundled Accessories** 

None

Color

Black

Camera

720p

Keyboard

Backlit, Bulgarian

Fingerprint Reader

Fingerprint Reader

NFC

None

TPM

Discrete TPM 2.0

Battery

Integrated 57Wh

Power Adapter

65W USB-C

System Management

None

**Operating System** 

Windows 10 Pro 64, English

**Bundled Software** 

None

Base Warranty

3-year, Depot

**Bundled Service** 

None

**End of Support** 

2025-04-19

Announce Date

2019-03-19

### 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.



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# ThinkPad T590 Platform Specifications

Processor	8th Generation Intel® Core™ i5 / i7 Processor									Dimensions	<i>WxDxH:</i> 14.40" x 9.76" x 0.75"; 365.8mm x 248mm x 19.1mm
			# of Threads	Frequency	Frequency	Cache	Memory Types		cessor phics	Weight   Case color   Case material	FHD model: 3.87 lb / 1.75 kg; UHD model: 3.86 lb / 1.75 kg Black Display cover: PPS / 50% GF;
	i5-826 i5-836 i7-856 i7-866	55U 4	8	1.6 GHz 1.6 GHz 1.8 GHz 1.9 GHz	4.1 GHz (4.6 GHz 8	6MB 6MB 8MB 8MB	DDR4-2400	Intel UHD Graphic 620			Bottom: PA / 50% GF  Par Optional: Smart card reader  MicroSD card reader  Two USB 3.1 Gen 1 (one Always On),
Graphics	Intel UHD Graphics 620 in processor only or Intel UHD Graphics 620 in processor and NVIDIA® GeForce® MX250, 2GB GDDR5 memory; supports external digital monitor via HDMI or Thunderbolt; supports three independent displays; Max resolution: 4096x2304@60Hz (Thunderbolt); 4096x2160@24Hz (HDMI)								OMI)	- Monitor cable	one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP), HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, microSD card reader, side docking connector, security keyhole  *Depending on many factors, actual data transfer speed may be lower than theoretical speed HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter  Optional)  USB-C to VGA: Lenovo USB-C to VGA Adapter (NOT available in EMEA)  USB-C to DP: Lenovo USB-C to DisplayPort Adapter (NOT available in EMEA)
Chipset Memory	Intel SoC (System on Chip) platform 48GB max / 2400MHz DDR4, dual-channel capable, 8GB or 16GB memory soldered to systemboard, one DDR4 SO-DIMM socket								cket	(optional) Bundled Accy	
Display	Size	Resolution	Ty	ype Surface	Brightness	Aspect Ratio		t Color Gamu	r Viewing ut Angle	, ,	• HD720p camera with ThinkShutter camera privacy, fixed focus     • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus  Audio support  HD Audio, Realtek® ALC3287 codec /     stereo speakers, 2W x 2, Dolby® Audio™ Premium /     dual array far-field microphone, headphone / microphone combo jack
		FHD (1920x1 UHD (3840x2	,	PS Anti-glar	_	16:9 16:9	700:1 1200:1	45% 100%	, 0 170°		
Multi-touch (opt)	15.6"   UHD (3840x2160)   IPS   Anti-glare   500 nits   16:9   1200:1   100%   Adobe   170°									Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
	<ul> <li>M.2 2280 SSD / SATA 6.0Gb/s</li> <li>M.2 2280 SSD / PCle NVMe, PCle 3.0 x 4</li> <li>M.2 2242 SSD / PCle NVMe, PCle 3.0 x 2</li> <li>Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCle NVMe 3.0 x 4</li> </ul>									System Mgt (opt) Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 2.0, TCG Certified Intel vPro Technology r Optional: Touch style match on chip fingerprint reader on the palm rest Near Field Communication
Optical Ethernet	None									Battery	Integrated Li-ion 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter  MobileMark® 2014: 14.98 hr (9.5 hr for UHD model with discrete graphics)
	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)									Max battery life	
WLAN (optional) Bluetooth™	Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0 Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter							pter		AC adapter	* Battery life varies significantly with settings, usage, & other factors 45W or 65W USB Type-C AC adapter
											Optional: Windows® 10 Home 64 or Windows 10 Pro 64
									EA only)		One of the following, configurable by model:  1-year depot repair service 1-year depot with 2-year planar repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service
										<u> </u>	MIL-STD-810G military testing
Note: The specifica										Environment	EPEAT™ Silver; ENERGY STAR® 7.1; RoHS-compliant

