## ThinkPad T590 Platform Specifications

Processor	8th Generation Intel® Core™ i5 / i7 Processor									Dimensions	WxDxH: 14.40" x 9.76" x 0.75"; 365.8mm x 248mm x 19.1mm
	Processor Number	# of Cores	# of Threads		Max Turbo Frequency	Cache	Memory Types	Proce Graph		Weight Case color Case material	FHD model: 3.87 lb / 1.75 kg; UHD model: 3.86 lb / 1.75 kg Black Bis/tensors/ DDC / 500/ OF:
	i5-8265U i5-8365U i7-8565U	4	8	1.6 GHz	3.9 GHz	6MB					Display cover: PPS / 50% GF; Bottom: PA / 50% GF
				1.6 GHz 1.8 GHz	4.1 GHz 4.6 GHz	6MB 8MB	DDR4-2400		ntel UHD Graphics 620	Smart card reade	er Optional: Smart card reader
	i7-8665U	1		1.9 GHz	4.8 GHz	8MB		02	o .	Media reader Ports	MicroSD card reader Two USB 3.1 Gen 1 (one Always On),
	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)								ИI)	- 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 USB-C to VGA: Lenovo USB-C to VGA Adapter (NOT available in EMEA)
Chipset	Intel SoC (System on Chip) platform									(optional)	
	48GB max / 2400MHz DDR4, dual-channel capable, 8GB or 16GB memory soldered to systemboard, one DDR4 SO-DIMM socket									Bundled Accy	USB-C to DP: Lenovo USB-C to DisplayPort Adapter (NOT available in EMEA) None
	* Installed memory is actually 2666MHz but run at 2400MHz due to Intel limitation								ioi	,	One of the following, configurable by model:
Display	Size Reso	olution	Ty	/pe Surface	Brightnes	s Aspec	t Contras Ratio	t Color Gamut	Viewing Angle		HD720p camera with ThinkShutter camera privacy, fixed focus     IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus
	15.6" FHD	•	· · · · · ·	PS Anti-gla	re 250 nits	16:9	700:1	45%	170°	Audio support	HD Audio, Realtek® ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium /
	15.6" UHD HDR	(3840x , Dolby	2160) Vision™ Ⅱ	PS Anti-gla	re 500 nits	16:9	1200:1	100% Adobe	170°		dual array far-field microphone, headphone / microphone combo jack  6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight
Multi-touch (opt)	On-cell touch, supports 10-finger gesture (FHD only)									UltraNav™	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 / PCIe NVMe, PCIe 3.0 x 4</li> <li>M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2</li> <li>Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4</li> </ul>									Fingerprint reade	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	None									Battery	Integrated Li-ion 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
Ethernet		Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)								Max battery life	with 65W AC adapter  Max battery life
WLAN <i>(optional)</i> Bluetooth™	Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0 Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter									AC adapter	* Battery life varies significantly with settings, usage, & other factors 45W or 65W USB Type-C AC adapter
	, 5									Operating system	Optional: Windows® 10 Home 64 or Windows 10 Pro 64
(3)	Wireless WAN upgradable     Integrated Mobile Broadband 4G LTE, Fibocom L830-EB, M.2 card (EMEA only)     Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card     *For non-WWAN model, it means the model is NOT WWAN upgradable     Nano-SIM card slot, optional Verizon LTE (US) SIM card								only)	Limited warranty	One of the following, configurable by model:  1-year depot repair service  1-year depot with 2-year system board 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™ Silver; ENERGY STAR® 7.1; RoHS-compliant
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Note: The specifications above may not be available in all regions.