

# ThinkPad E580 Platform Specifications

Product Specifications Reference (PSREF)

Processor	7th Generation Intel® Core™ i3 / i5 Processor or								Dimensions	<i>WxDxH:</i> 14.53" x 9.92" x 0.78"; 369mm x 252mm x 19.95mm
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight	Starting at 4.7 lb / 2.1kg
	i3-7020U	2	4	2.3 GHz	-	3MB	DDR4-2133	Intel HD Graphics 620	Case color	Black or silver
	i3-7130U			2.7 GHz	-	3MB			Display cover:	Aluminum;
i5-7200U	2.5 GHz			3.1 GHz	3MB	Bottom:			PC/ABS plastic	
8th Generation Intel Core i3 / i5 / i7 Processor								Smart card reader	None	
Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	MicroSD card reader	
i3-8130U	2	4	2.2 GHz	3.4 GHz	4MB	DDR4-2400	Intel UHD Graphics 620	Ports	One USB 2.0, two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 2 (with the function of Power Delivery and DisplayPort), HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack, microSD card reader, security keyhole	
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB			* Depending on many factors, actual data transfer speed may be lower than theoretical speed		
i7-8550U			1.8 GHz	4.0 GHz	8MB					
* i3-7130U is NOT available in US and EMEA								Camera	HD720p camera, fixed focus	
Graphics	Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or Intel HD Graphics 620 or Intel UHD Graphics 620 in processor and AMD Radeon RX 550 Graphics, 2GB GDDR5 memory; supports external digital monitor via HDMI or USB Type-C; supports dual independent display; Max resolution: 1920x1080 (HDMI) @60Hz								Audio support	HD Audio, Synaptic® CX11852 codec / stereo speakers, 2W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack
	Intel SoC (System on Chip) platform 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets * System clocks down for processors with lower memory controller								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight
									UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
Chipset	Intel SoC (System on Chip) platform								Security	Power-on password, hard disk password, supervisor password, security keyhole
Memory	32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets * System clocks down for processors with lower memory controller								Security chip	Firmware TPM 2.0 integrated in chipset or discrete TPM 2.0 TCG Certified (may be disabled in some region)
Display	Some: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio								System Mgt	None
	Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, WVA, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio								Fingerprint reader	Optional: Touch style fingerprint reader on the palm rest
Multi-touch	None								NFC	None
Storage	Up to 2 drives (one M.2 SSD and one HDD)								Battery	Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
	Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™								Max battery life	MobileMark® 2014: 12.23 hr
Optane™ memory	Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2								AC adapter	45W or 65W USB-C AC adapter
Optical	None								Operating system	Optional: Windows® 10 Home 64 or Windows 10 Pro 64
Ethernet	Gigabit Ethernet Connection, Realtek R8111GUS								Limited warranty	One of the following, configurable by model: • 1-year mail-in repair service • 1-year depot repair service
WLAN + Bluetooth™	One of the following, configurable by model: • Realtek® RTL8821CE, Wi-Fi 1x1 802.11ac + Bluetooth 4.1, M.2 card • Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card • Intel Dual Band Wireless-AC 3165, Wi-Fi 1x1 802.11ac + Bluetooth 4.1, M.2 card • Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card								Mil-Spec test	MIL-STD-810G military testing
	WWAN	None								Environment
SIM card	None									

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

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