

# ThinkPad E580 20KS007G++

**Product**  
ThinkPad E580

**Region**  
EMEA

**Machine Type**  
20KS

**TopSeller**  
TopSeller

**Processor**  
Core i3-8130U (2C, 2.2 / 3.4GHz, 4MB)

**vPro**  
No

**Graphics**  
Integrated Intel UHD Graphics 620

**Memory**  
4GBx1

**Display**  
15.6" FHD (1920x1080) IPS

**Multi-touch**  
None

**Storage**  
1TB 5400rpm

**Optical**  
None

**WLAN + Bluetooth**  
Intel 3165 ac, 1x1 + BT4.1

**WWAN**  
None

**SIM Card**  
None

**Color**  
Black

**Case Material**  
Aluminum

**Camera**  
720p

**Keyboard**  
Non-backlit

**Fingerprint Reader**  
Fingerprint Reader

**NFC**  
None

**TPM**  
dTPM 2.0

**Battery**  
45Wh

**Power Adapter**  
65W USB-C

**Operating System**  
Windows 10 Pro 64

**Warranty**  
1-year, Depot

**End of Support**  
Apr 6, 2024

**Ann Date (mm/yy)**  
03/18

## Note:

\* Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "\*\*\*" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries



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# ThinkPad E580 Platform Specifications

Product Specifications Reference (PSREF)

|                   |                                                                                                                                                                                                                                                                                                                                                 |            |              |                |                     |       |              |                        |                     |                                                                                                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|----------------|---------------------|-------|--------------|------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor         | 7th Generation Intel® Core™ i3 / i5 Processor<br>(i3-7130U is NOT available in US and EMEA) or                                                                                                                                                                                                                                                  |            |              |                |                     |       |              |                        | Dimensions          | WxDxH: 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   |              |                        | Case material       | Display cover: Aluminum;<br>Bottom: PC/ABS plastic                                                                                                                              |
|                   | i5-7200U                                                                                                                                                                                                                                                                                                                                        |            |              | 2.5 GHz        | 3.1 GHz             | 3MB   |              |                        |                     |                                                                                                                                                                                 |
|                   | 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               | Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 2, one USB 2.0, 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   |              |                        | Camera              | HD720p camera, fixed focus                                                                                                                                                      |
|                   | i7-8550U                                                                                                                                                                                                                                                                                                                                        |            |              | 1.8 GHz        | 4.0 GHz             | 8MB   |              |                        | Audio support       | HD Audio, Conexant® CX11852 codec / stereo speakers, 2W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack                                   |
| 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 DDR5 memory; supports external digital monitor via HDMI or USB Type-C; supports dual independent display; Max resolution: 1920x1080 (HDMI) @60Hz                          |            |              |                |                     |       |              |                        | Keyboard            | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight                                                                                              |
|                   |                                                                                                                                                                                                                                                                                                                                                 |            |              |                |                     |       |              |                        | UltraNav™           | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad                                                                                                   |
|                   |                                                                                                                                                                                                                                                                                                                                                 |            |              |                |                     |       |              |                        | Security            | Power-on password, hard disk password, supervisor password, security keyhole                                                                                                    |
|                   |                                                                                                                                                                                                                                                                                                                                                 |            |              |                |                     |       |              |                        | Security chip (opt) | Firmware TPM 2.0 integrated in chipset or discrete TPM 2.0 TCG Certified                                                                                                        |
| Chipset           | Intel SoC (System on Chip) platform                                                                                                                                                                                                                                                                                                             |            |              |                |                     |       |              |                        | vPro                | None                                                                                                                                                                            |
| Memory            | 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets<br>* System clocks down for processors with lower memory controller                                                                                                                                                                                                     |            |              |                |                     |       |              |                        | Fingerprint reader  | Optional: Touch style fingerprint reader on the palm rest                                                                                                                       |
| Display           | Some: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio<br>Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio                                                                                                       |            |              |                |                     |       |              |                        | NFC                 | None                                                                                                                                                                            |
|                   |                                                                                                                                                                                                                                                                                                                                                 |            |              |                |                     |       |              |                        | Battery             | Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter                                                                  |
| Multi-touch       | None                                                                                                                                                                                                                                                                                                                                            |            |              |                |                     |       |              |                        | Max battery life    | MobileMark® 2014: 12.23 hr<br>* Battery life varies significantly with settings, usage, & other factors                                                                         |
| Storage           | Up to 2 drives (one M.2 SSD and one HDD)<br>Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™<br>Some: M.2 SSD / PCIe NVMe                                                                                                                                                                                  |            |              |                |                     |       |              |                        | AC adapter          | 45W or 65W USB Type-C AC adapter                                                                                                                                                |
|                   |                                                                                                                                                                                                                                                                                                                                                 |            |              |                |                     |       |              |                        | Preload (optional)  | Windows® 10 Home 64 or Windows 10 Pro 64                                                                                                                                        |
|                   |                                                                                                                                                                                                                                                                                                                                                 |            |              |                |                     |       |              |                        | Limited warranty    | 1-year depot repair service                                                                                                                                                     |
|                   |                                                                                                                                                                                                                                                                                                                                                 |            |              |                |                     |       |              |                        | Mil-Spec test       | MIL-STD-810G military certification                                                                                                                                             |
| Optical           | None                                                                                                                                                                                                                                                                                                                                            |            |              |                |                     |       |              |                        | Environment         | ENERGY STAR® 6.1; RoHS-compliant                                                                                                                                                |
| Ethernet          | Gigabit Ethernet Connection, Realtek R8111GUS                                                                                                                                                                                                                                                                                                   |            |              |                |                     |       |              |                        |                     |                                                                                                                                                                                 |
| WLAN + Bluetooth™ | One of the following, configurable by model:<br>• Realtek® RTL8821CE, Wi-Fi 1x1 802.11ac + Bluetooth 4.1, M.2 card<br>• Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card<br>• Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + Bluetooth 4.1, M.2 Card<br>* Intel 3165ac card supports BT4.2 but is limited to BT4.1 by Windows OS |            |              |                |                     |       |              |                        |                     |                                                                                                                                                                                 |
| WWAN              | None                                                                                                                                                                                                                                                                                                                                            |            |              |                |                     |       |              |                        |                     |                                                                                                                                                                                 |
| SIM card          | None                                                                                                                                                                                                                                                                                                                                            |            |              |                |                     |       |              |                        |                     |                                                                                                                                                                                 |

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