ThinkPad E540 Platform Specifications

Product Specifications Reference (PSREF)

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Pentium® 3550M processor (2 cores, 2.30GHz, 2MB cache)**, **Intel HD Graphics**, DDR3 memory controller (up to 1600MHz) **Intel Pentium 3560M processor (2 cores, 2.40GHz, 2MB cache)**, **Intel HD Graphics**, DDR3 memory controller (up to 1600MHz) **Intel Core™ i3-4000M processor (2 cores, 2.40GHz, 3MB cache)**, **Intel HD Graphics 4600**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i3-4100M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4600**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-4200M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4600**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology **Intel Core i5-4210M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4600**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology **Intel Core i5-4300M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4600**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology **Intel Core i7-4702MQ processor (4 cores, 2.20GHz, 6MB cache)**, **Intel HD Graphics 4600**, DDR3L memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology **Intel Core i7-4712MQ processor (4 cores, 2.30GHz, 6MB cache)**, **Intel HD Graphics 4600**, DDR3L memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 9.5mm high, fixed, not removable, tray-in
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™
M.2 SSD	None
Widescreen display	*Some:* **15.6"** (396mm) **HD (1366x768)**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio *Some:* **15.6"** (396mm) **FHD (1920x1080)**, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio *Some:* **15.6"** (396mm) **HD (1366x768)**, anti-glare, 10-point touch screen LED backlight, 200 nits, 16:9 aspect ratio *Some:* **15.6"** (396mm) **FHD (1920x1080)**, anti-glare, 10-point touch screen LED backlight, 300 nits, 16:9 aspect ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 4600** in processor or **NVIDIA® Optimus™ technology**, auto-switch between discrete and integrated graphics, Intel HD Graphics 4600 in processor, and **NVIDIA GeForce® 710M**, PCI Express® x 8, **1GB** memory, DirectX® 11.1, or **NVIDIA GeForce® GT740M**, PCI Express® x 8, **2GB** memory, DirectX® 11.1, NVIDIA PureVideo® HD technology, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	15.6W" (WxDxH): 14.84" x 9.84" x 1.05-1.17"; 377 x 250mm x 26.6-29.6mm
Weight[2]	*6-cell:* from 5.4 lb (2.46kg)
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.2 hr *6-cell (62Whr):* up to 7.4 hr
Chipset	**Mobile Intel HM87 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.0, one USB 2.0 (powered), OneLink Docking port external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Half Mini Card slot
PCIe WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth, 2x2 *Some:* 11ac, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + Bluetooth, 2x2
M.2 Card	One M.2 Card slot for support of SSD
M.2 WWAN	*Some:* Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 Card
SIM card	*Some:* User selectable, contract required with service provider
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111GUS Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant CX20751-21Z codec / stereo speakers, Dolby Advanced Audio v2 certified / Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	*Some:* Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* No operating system
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- *Some:* Windows 8 Pro 64-bit
- *Some:* Windows 8.1 64-bit
- *Some:* Windows 8.1 Pro 64-bit

Preloaded applications (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt/90-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

See footnotes for more detailed information

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Model	20C600JH++
Product	E540
Region	WE
Machine Type	20C6
TopSeller	TopSeller
Processor	i5-4210M (2C, 2.60 / 3.20GHz, 3MB, 1600MHz)
vPro	No
Graphics	NVIDIA GeForce GT740, 2GB Memory
Chipset	Intel HM87
Memory	4GBx1
Display	15.6" FHD (1920x1080)
Multi-touch	No
Color	Black
Storage	500GB 7200 rpm
Optical	DVD±RW
WLAN &Bluetooth	Intel 7260 b/g/n + BT4.0
WWAN / M.2 SSD	No
SIM Card	No
Camera	720p
Keyboard	Numeric Keypad
Fingerprint Reader	Fingerprint Reader
NFC	No
Battery Cells	6-cell (48wh)
Power Adapter (watt)	90W
Preload	Windows 8.1 DG Windows 7 Pro 64
Base Warranty	1-year depot
Global	No
Ann Date (mm/yy)	06/14



















