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(Image credit: Future) Click here for APC's exclusive full-version downloads (opens in new tab)Get Windows 11 running just the way you like with our Top 10 Tweaks Guide, in this issue of APC. We won't waste your time with a thousand mostly pointless 'tips' - but get straight into the meat and potatoes of sorting the new OS's most annoying
 issues. Plus, all the winners in the annual Australian PC Awards as the team gives out the gold to the very best gear we saw in 2021, and a special data recovery Superguide to help you get back your lost files. This issue of APC also introduces several new regular sections, including Futures - for a look ahead into what's around the corner in tech, and
 Retro, which pays tribute the machines and tech that shaped us. Subscribe to the print edition of APC magazine and you'll enjoy a greatly-reduced cover price, plus free delivery directly to your door. Visit techmags.com.au (opens in new tab) for full details: (opens in 
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  Australia newsletter provides twice-weekly digests of the most important tech news, plus exclusives offers and discounts for Aussie readers! Got a question for the APC editorial team? You can get in touch with us by sending an email to apcmag@futurenet.com. My point was that there have been noticeable improvements in computing power. I
 wouldn't recommend this particular model, but it's likely that an equivalent ThinkPad would be an all round much better experience and have the same performance, or maybe even better. This particular new laptop is a "business" series, so it tries to look fancy, but it's just cheap crap sold at a high markup. I have older models at work, and they have
 all failed in various ways. They're barely moved outside the office, too, so it's not like I beat on them all day every day. It's a line I would never recommend to anyone under any circumstance, be it new or old. But it is fast. My general opinion, though, is that instead of buying cheap models often, it's usually much better to buy nicer, "higher-end" models
 less often, at least as far as perception is concerned, especially if you don't have anything (new) to compare it to. This can afford better "peripherals", such as a screen, keyboard, silence, etc., which cheaper models tend to never have. Series of laptops by IBM and Lenovo ThinkPad T seriesT20 - the first in the T seriesDeveloper IBM: 2000-2005
 Lenovo: 2005-Present TypeNotebook computerRelease date2000 The ThinkPad T series is a line of laptop computers. Originally developed by IBM, and introduced in 2000, the brand was sold along with the rest of IBM's consumer computer division to Chinese technology company Lenovo in 2005, who have continued to produce and market
 succeeding models. History IBM introduced the T series as part of their ThinkPad brand in 2000.[1] The laptop was meant to cater to users working with multiple networks and in different environments. This resulted in the development of the IBM Embedded Security Subsystem.[1] From the time of its inception, the series was designed to balance
  speed and mobility. Despite a 14.1-inch screen, similar to desktops at the time, the titanium composite body on the laptop was released by IBM as the
 14.1-inch successor to the 13.3-inch ThinkPad 600 laptops.[2] With a weight of 2.1 kg (4.6 lb), the T20 was the lightest laptop offering with a screen size of 14.1-inch (360 mm).[3] With the addition of an internal 8x DVD-ROM drive, the weight remained as low as 2.4 kg (5.2 lb).[4] In October 2000, the ThinkPad T20 was upgraded and released as the
ThinkPad T21 laptop with the Intel Mobile Pentium III (800 MHz) CPU.[5] The 14.1-inch LCD display offered a higher resolution of 1400 \times 1050. The hard disk space offered was a 32 GB—high for the time.[1] Further minor refinements were made to the T2X series resulting in the T22 and finally in 2002 with the T23 a Pentium III-M 1.13 GHz
 "Tualatin" having 128 MiB of RAM and a 30 GB hard drive. The ThinkPad T30 was released in May 2002, with options for the Intel Mobile Pentium 4-M processor with the Intel 845MP Mobile Chipset.[6] Additional options for the Intel Mobile Pentium 4-M processor with the Intel 845MP Mobile Chipset.[6] Additional options for the Intel Mobile Pentium 4-M processor with the Intel 845MP Mobile Chipset.[6] Additional options for the Intel Mobile Pentium 4-M processor with the Intel 845MP Mobile Chipset.[6] Additional options for the Intel 845MP Mobile Pentium 4-M processor with the Intel 845MP Mobil
of 1400 × 1050, and 1 GiB PC2100 RAM.[7] This was complemented by a 60 GB hard drive and a DVD-ROM/CD-RW combo drive, making it a powerful laptop.[8] The last ThinkPad to have been manufactured directly by IBM (T43). Announced in March 2003, the ThinkPad T40p represented the first in the T series' "performance" class of laptops.[9] The
ThinkPad T40p offered ATI Mobility 9000 with 64 MiB VRAM, a 14.1-inch LCD display with 1400 \times 1050 resolution, a maximum of 2 GiB PC2100 RAM, and a 60 GB IDE hard disk.[10] The design was followed by the T41 and T41p and the T42 and T42p (ATI Mobility 7500, 9600, and FireGL T2), with almost complete parts interchangeability, except for
 the fan (normal or p-series), keyboard (14.1" or 15"), screen (14.1" or 15"), and screen inverter. The 15-inch T42 and T42p models were offered with an optional 1400 × 1050 or 1600 × 1200 "FlexView" IPS LCD display.[11] Launched in April 2005, the ThinkPad T43 and T43p laptops were the last T-series laptops manufactured for IBM.[1][12] The
 major improvement was a move to lower-cost DDR2 RAM and a bus speed increase from 400 MHz to 533 MHz. The CPU also was the first to have the XD bit, making it the first Thinkpad that could run Windows 8.x and Windows 10. In December 2004 Lenovo of China announced the acquisition of the IBM PC division[13] including the ThinkPad brand
(at the time, 40% of the PC division was working in China.) ThinkPads were being made by Lenovo's arch-rival Great Wall Technology.[14] Lenovo released the ThinkPad T60 and the T60p still featured the IBM logo on the machines.[1] In May 2007, the T61
 and T61p laptops slowly phased out IBM logos in favor of the ThinkPad logo.[16] It also was the first T Series notebook to adopt widescreen resolution as a mainstream option; the traditional 4:3 aspect ratio screens was also offered as an alternative at the time but mass industry adoption of the widescreen standard meant that it was the last ThinkPad
of its kind to use the 4:3 standard. ThinkPad T series (2000-2008) Case type Screen T2* T3* T4* T6* 4:3 screens 14" 13" Low-cost T20 T21 T22 T23 T30 T40 T41 T42 T43 T60 T61 Performance T40p T41p T42p T43p T60p T61p 15" Mainstream T42 T43 T60 Performance T42p T43p T60p 16:10 screens 15.4"
 Mainstream T60 T61 Performance T60p T61p The naming convention for the T Series was changed by Lenovo's ThinkPad W Series laptops.[19] Designed as mobile workstations, the W series grew to become Lenovo's line
of performance-oriented laptops.[20] The T series remains Lenovo's premier line of laptops, aimed at corporate and enterprise users and is praised by users for its outstanding Linux compatibility. The T-p lineup later returned as an irregular T##0p line with only T440p, T460p, T470p and T540p models. ThinkPad T series (2008-2020) Type T*0*
(2008) T*1* (2010) T*2* (2011) T*3* (2012) T*4* (2013) T*5* (2015) T*6* (2015) T*6* (2016) T*7* (2017) T*8* (2017) T*8* (2018) T*9* (2019) T1* Gen 1 (2020) Intel AMD 
Video T430u Port Replicator Series 3; Mini Dock Series 3; Mini Dock Series 3; Mini Dock Series 3 (90/135/170 W) T431s (with04X0856) USB 3.0 Basic Dock; USB 3.0 Pro Dock; USB 3.0 Ultra Dock (90/135/170 W) Some of discrete graphic models not compatible USB-C Dock Basic Dock; USB 3.0 Ultra Dock (90/135/170 W) T431s (with04X0856) USB 3.0 Ultra Dock (90/135/170 W) USB 3.0 
 edition was released on Oct. 5, 2017. It was based on the ThinkPad T470, but brought back the classic 7-row keyboard. [21][22] In 2018, Lenovo introduced the ThinkPad A485, which officially isn't part of the T Series, but it uses the same housing and has the same build quality as the T480. It offers a 2nd generation AMD Ryzen Pro processor (namely
the 2500U), and because of the AMD platform, it lacks Thunderbolt 3 support, but has USB-C support. The A475 had been similarly released in 2019 Lenovo officially introduced the AMD CPU in the T Series, and differentiated it with the digit 5 at the end of the model number
(i.e. T495). From 2020 onwards, the naming scheme changed again, after the letter "T" comes the screen size in inches, then a Generation number (i.e. T14 Gen 1), just like with the X1 series. There is no more differentiation in model number for the AMD processors. Specifications Battery configuration Main M(x) Main hot-swappable (max.cells)
 Secondary U Ultrabay removable u Ultrabay unremovable M(x) Main removable (max.cells) m(x) internal(max.cells) S Slice battery Laptop color codes Processor Socketed mobile pr
 power processor Soldered ultra low power processor Weight 0.9 kg (2.0 lb) Up to 0.91 kg 1.0 kg (2.2 lb) 0.92-1.0 kg 1.1 kg (2.4 lb) 1.01-1.1 kg 1.2 kg (3.1 lb) 1.31-1.4 kg 1.5 kg (3.3 lb) 1.41-1.5 kg 1.6 kg (3.5 lb) 1.51-1.6 kg 1.7 kg (3.7 lb) 1.61-1.7 kg 1.8 kg (4.0 lb) 1.71-1.81 kg 1.9 kg (4.2 lb)
 1.81-1.91 kg 2.0 kg (4.4 lb) 1.91-2.03 kg 2.1 kg (4.6 lb) 2.04-2.14 kg 2.3 kg (5.1 lb) 2.15-2.4 kg 2.5 kg (5.5 lb) 2.41-2.75 kg 2.8 kg (6.2 lb) 2.76-3.05 kg 3.1 kg (6.8 lb) 4.0-4.99 kg 5.5 kg (12 lb) 5.0-6.49 kg 7.2 kg (16 lb) 6.5-7.99 kg 9.1 kg (20 lb) 8.0-9.99 kg 10.7 kg (24 lb) 10-11.99 kg 12.7 kg
 (28 lb) 12-14.49 kg 14.5 kg (32 lb) 14.5-17.99 kg 18.1 kg (40 lb) 18-20.99 kg 21.7 kg (48 lb) 21-23.99 kg 24 kg (53 lb) 24-28.99 kg 29.5 kg (65 lb) 29 kg and above Screen resolution 4K or higher 1440p+ (WQHD,QXGA) 1080p+ (Full HD,UXGA) Better than 768p (SXGA,SXGA+) 600p+ (SVGA,HD,XGA,HD+) Up to 600p (VGA) Graphics Dual
 standard socket graphics option Dual proprietary socket graphics option Soldered midrange graphics option So
Laptop storage combinations (excluding WWAN slot) Level PCIe 4.0 x4 PCIe 3.0 x2 PCIe 3.0 x4 PCIe 3.0 x2 PCIE 3.0 x
LPDDR4X LPDDR4 DDR4 LPDDR3 DDR4 DDR3 DDR2 DDR SDR EDO FPM dual channel < dual cha
 512 MB (8 chips) 512 MB (8 chips) 512 MB 256 MB \leq max memory < 512 MB 256 MB (1 chip) N/A single channel min 256 MB (1 chip) N/A s
Other Classic case T400[23] July 2008 335.5 × 239 × 27.5-32 2.3 kg (5.1 lb) Up to Intel Core 2 Duo T9600 (2C2T 2.8 GHz 6MB L2) Intel GMA 4500MHD Optional ATI Mobility Radeon HD 3470 (256 MiB GDDR3) One UltraBay One 2.5" Drive Intel 82567LM Gigabit Ethernet Intel WiFi Link 5100 Mini PCIe
 Card Optional BT 2.1 Module Optional WWAN Mini PCIe Card (exclusive) 16:10 aspect ratio1280 × 800 TN 1440 × 900 TN M(9)U One white ThinkLight T400s[23] June 2009 337 × 241.5 × 21-26 1.75 kg (3.9 lb) Up to Intel Core 2 Duo SP9400 (2C2T 2.4 GHz 6MB L2) Intel GS45 8 GiB DDR3 1066 MHz (2 slots) Intel GMA 4500MHD One UltraBay One
2.5" Drive Intel 82567LM Gigabit Ethernet Intel WiFi Link 5100 Mini PCIe Card Optional BT 2.1 ModuleOptional Verizon or AT&T WWAN Mini PCIe Card (exclusive) 16:10 aspect ratio1440 × 900 TN M(6)U One white ThinkLight T410[23] Jan 2010 335.5 × 239 × 27.5–32 2.23 kg (4.9 lb) 1st Gen Intel CoreUp to i7-620M (2C4T 2.66/3.33 GHz Turbo)
Intel QM57 8 GiB DDR3 1066 MHz (2 slots) Intel GMA HDOptional Nvidia Quadro NVS 3100M (512MB GDDR3) One UltraBay One 2.5" Drive Intel 82577LC or Intel 82577LC or Intel 82577LM (vPro)Gigabit Ethernet Intel Centrino Wireless-N 1000 or Intel 82577LM (vPro)Gigabit Ethernet Intel Centrino Wireless-N 1000 or Intel 82577LM (vPro)Gigabit Ethernet Intel Centrino Wireless-N 1000 or Intel 82577LM (vPro)Gigabit Ethernet Intel Research (vPro)Gigabit Ethernet (vPro)Gigabit Eth
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 Intel 82577LC or Intel 82577LM (vPro)Gigabit EthernetThinkPad 11 WiFi or Intel Centrino Wireless-N 1000 or Intel Centrino Ultimate-N 6300 Half Mini PCIe Card Optional BT 2.1 Module Optional BT 2.1 Module Optional Gobi AT&T WWAN Mini PCIe Card (exclusive) 16:10 aspect ratio1440 × 900 TN M(6) U One white
ThinkLight T420[23] Feb 2011 340.5 \times 232 \times 30 2.24 kg (4.9 lb) 2nd Gen Intel CoreUp to i7-2670QM(4C8T 2.2/3.3 GHz Turbo) Intel QM67 16 GiB DDR3 1333 MHz (2 slots) Intel HD 3000 Optional NVIDIA NVS 4200M (1 GiB GDDR3) One UltraBay One 2.5" Drive Intel R2579LM Gigabit Ethernet Intel Centrino Wireless-N 1000 or Intel Centrino Wireless-N 1000 
 Advanced-N 6205 or Intel Centrino Advanced-N + WiMAX 6250 Half Mini PCIe CardBT 3.0 Module Optional Gobi WWAN mSATA Card 1366 × 768 TN1600 × 900 TN M(9)S One white ThinkLight T420s[24] 343 × 230 × 21.2-26 1.78 kg (3.9 lb) 2nd Gen Intel CoreUp to i7-2640M (2C4T 2.8/3.5 GHz Turbo) 16 GiB DDR3 1333 MHz (2 slots) Intel HD
 3000 Optional NVIDIA NVS 4200M (1 GiB GDDR3) One UltraBay One 2.5" Drive Intel 82579LM Gigabit Ethernet ThinkPad 11 Wireless Intel Centrino Wireless I
\times 30 2.17 kg (4.8 lb) 3rd Gen Intel CoreUp to i7-3840QM (4C8T 2.8/3.8 GHz Turbo) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel HD 4000 Optional NVIDIA NVS 5400M (1 GiB GDDR3) One UltraBay One 2.5" Drive Gigabit EthernetWi-Fi Half Mini PCIe CardBT 4.0 ModuleOptional WWAN mSATA Card 1366 \times 768 TN 1600 \times 900 TN M(9)S One white ThinkLight T430s[26] 343 \times 230 \times 21.2-26 1.78 kg (3.9 lb) 3rd Gen Intel CoreUp to i7-3520M (2C4T 2.9/3.6 GHz Turbo) 16 GiB DDR3L 1600 MHz (2 slots) Intel HD 4000 Optional NVIDIA NVS 5200M (1 GiB GDDR3) One UltraBay One 2.5" Drive Gigabit EthernetWi-Fi Half Mini PCIe CardBT 4.0 ModuleOptional WWAN mSATA Card 1366 \times 768 TN 1600 \times 768 TN 1600 \times 900 TN M(9)S One UltraBay One 2.5" Drive Gigabit EthernetWi-Fi Half Mini PCIe CardBT 4.0 ModuleOptional WWAN mSATA Card 1366 \times 768 TN 1600 \times 900 TN M(9)S One UltraBay One 2.5" Drive Gigabit EthernetWi-Fi Half Mini PCIe CardBT 4.0 ModuleOptional WWAN mSATA Card 1366 \times 768 TN 1600 \times 900 TN M(9)S One
TN1600 \times 900 TN M(6) U One white ThinkLight Modern case T430u[27] Sept 2012 340 \times 236 \times 21 1.85 kg (4.1 lb) 3rd Gen Intel CoreUp to i7-3517U (2C4T 1.9/3.0 GHz Turbo) Intel HD 4000Optional NVIDIA GeForce GT 620M (1 GiB DDR3) One 2.5" Drive Gigabit EthernetWi-Fi + Optional BT Half Mini PCIe CardOptional WWAN mSATA Card 1366 \times 768 TN m One white ThinkLight T431s[28] March 2013 331 \times 226 \times 20.7 1.63 kg (3.6 lb) 3rd Gen Intel CoreUp to i7-3687U (2C4T 2.1/3.3 GHz Turbo) 12 GiB DDR3L 1600 MHz(4 GiB soldered, 1 slot) Intel HD 4000 One 2.5" Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN mSATA Card 1600
 \times 900 TN m T440, T440 Touch[29] Sept 2013 339 \times 232.5 \times 23 1.68 kg (3.7 lb) 4th Gen Intel Core Up to i7-4600U (2C4T 2.1/3.3 GHz Turbo) 8/12 GiB DDR3L 1600 MHz(0/4 GiB soldered, 1 slot) Intel HD 4400 Optional NVIDIA GeForce GT 720M (1 GiB GDDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2
 CardOptional WWAN M.2 SATA Card 1366 × 768 TN1600 × 900 TN M(6)m T440s, T440s Touch[30] 331 × 226 × 20.7 1.59 kg (3.5 lb) 4th Gen Intel CoreUp to i7-4600U (2C4T 2.1/3.3 GHz Turbo) 12 GiB DDR3L 1600 MHz(4 GiB soldered, 1 slot) Intel HD 4400 Optional NVIDIA GeForce GT 730M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive
(conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 SATA Card 1600 × 900 TN 1920 × 1080 IPS M(6) m T440p[31] Nov 2013 339 × 232.5 × 29.5 2.14 kg (4.7 lb) 4th Gen Intel Core Up to i7-4910MQ(4C8T 2.9/3.9 GHz Turbo) Intel QM87 16 GiB DDR3L 1600 MHz (2 slots) Intel HD 4600 Optional NVIDIA GeForce GT 730M (1 GiB
 DDR3) One 2.5" Drive One UltraBay Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN mSATA Card 1366 × 768 TN 1600 × 900 TN 1920 × 1080 IPS M(9) u T450[32] Jan 2015 339 × 232.5 × 21 1.81 kg (4.0 lb) 5th Gen Intel Core i3-5010U (2C4T 2.2/2.7 GHz Turbo) i5-5300U (2C4T 2.3/2.9 GHz Turbo) i7-5600U (2C4T 2.3/2.9 GHz 
2.6/3.2 GHz Turbo) 32 GiB DDR3L 1600 MHz (2 slots) Intel HD 5500 Optional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gigabit EthernetWi-Fi + BT M.2 CardOptional NVIDIA GeForce 940M (1 GiB DDR3) One 2.5" Drive One M.2 SATA Drive (conflicting) Gibbs (conflict
20.7 1.58 kg (3.5 lb) 5th Gen Intel Core i5-5200U (2C4T 2.2/2.7 GHz Turbo) i5-5300U (2C4T 2.3/2.9 GHz Turbo) i7-5600U (2C4T 2.6/3.2 GHz Turbo)
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Turbo) 32 GiB DDR3L 1600 MHz (2 slots) Intel HD 5200ptional NVIDIA GeForce 940MX (2 GiB DDR3) One 2.5" Drive or One M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x1 Card (exclusive) Anti-glare: 1366 × 768 TN 1920 × 1080 IPS Touch M(6)m T460s[37] 331 × 226.8 × 17-18.8 1.36 kg (3.0 lb) 6th Gen
 Intel Core i5-6200U (2C4T 2.3/2.8 GHz Turbo)i5-6300U (2C4T 2.4/3.0 GHz Turbo) i7-6600U (2C4T 2.6/3.4 GHz Tur
 940MX (2 GiB GDDR5) One 2.5" 7mm Drive or One M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x1 Card Anti-glare: 1366 \times 768 TN 1920 \times 1080 IPS Touch M(6)m One TB3 x2 T470s[40] Mar 2017 \ 331 \times 226.8 \times 17-18.8 1.32 kg (2.9 lb) 6th Gen Intel Core i5-6200U (2C4T 2.2/2.8 GHz Turbo)
i5-6300U (2C4T 2.4/3.0 GHz Turbo) i7-6600U (2C4T 2.6/3.4 GHz Turbo) i7-7500U (2C4T 2.6/3.5 GHz Turbo) i7-7500U (2C4T 2.8/3.9 GHz Turbo) i7-750
M.2 \text{ x} 4 \text{ Gigabit EthernetWi-Fi} + \text{BT } M.2 \text{ CardOptional WWAN } M.2 \text{ Card (exclusive)}  Anti-glare: 1920 \times 1080 \text{ IPS } 1920 \times 1080 \text{ IPS 
Turbo) i7-7820HQ (4C8T 2.9/3.9 GHz Turbo) Intel QM175 64 GiB DDR4 2400 MHz (2 slots) Intel HD 630 Optional WWAN M.2 x1 Card Optional WWAN M.2 x1 Card 1920 × 1080 IPS TouchAnti-glare:1920 × 1080 IPS 2560 × 1440 IPS M(6) A475[42] Sep 2017
336.6 \times 232.5 \times 20 1.58 kg (3.5 lb) 7th Gen Intel Core i7-7500U (2C4T 2.7/3.5 GHz Turbo) 64 GiB DDR4 2400 MHz (2 slots) NVIDIA GeForce 940MX (2 GiB GDDR5) One M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x1 Card 1920 × 1080 Anti-glare, IPS Touch (Option) M(6) m One TB3 x2 T480[43] Jan 2018 336.6 × 232.5 ×
CPUs) or 2400 MHz (8th Gen CPUs) (2 slots) Intel HD 620 (Gen7 CPUs) or Intel UHD 620 (Gen8 CPUs) Optional NVIDIA GeForce MX150 (2 GiB GDDR5) One 2.5" 7mm Drive or One M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Drive Gigab
m ThinkShutterOne TB3 x2Soldered charging port T480s[44] 331 × 226.8 × 18.5 1.32 kg (2.9 lb) 7th Gen Intel Core i5-8250U (4C8T 1.7/3.6 GHz Turbo) i7-8550U (4C8T 1.8/4.0 GHz Turbo) i7-8550U (4C8T 1.9/4.2 GHz Turbo) i7-8550U (4C8T 1.8/4.0 GHz Tur
UHD 620 Optional NVIDIA GeForce MX150 (2 GiB GDDR5) One M.2 x4 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x1 Card 1920 × 1080 IPS touch 2560 × 1440 IPS m ThinkShutterOne TB3 x2Soldered charging port A485[45] July 2018 336.6 × 232.5 × 20 1.58 kg (3.5 lb) 1st Gen AMD Ryzen Mobile 32 GiB DDR4
 2400 MHz (2 slots) AMD Radeon Vega 6, 8 or 10 One 2.5" 7mm Drive or One M.2 x2 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 x2 Card 1366 × 768 TN 1920 × 1080 IPS Touch (on cell) M(6) m ThinkShutter T490[46] Apr 2019 329 × 227 × 18.9 1.46 kg (3.2 lb) 8th Gen Intel Core i5-8265U (4C8T 1.6/3.9 GHz)
 Turbo) i5-8365U (4C8T 1.6/4.1 GHz Turbo) i7-8565U (4C8T 1.8/4.6 GHz Turbo) i7-8565U (4C8T 1.8/4.6 GHz Turbo) i7-8565U (4C8T 1.8/4.9 GHz Turbo)
1.27 kg (2.8 lb) 8th Gen Intel Core i5-8265U (4C8T 1.6/3.9 GHz Turbo) i7-8565U (4C8T 1.6/4.1 GHz Turbo) i7-8565U (4C8T 1.8/4.6 GHz Turbo) i7-8665U (4C8T 1.9/4.8 GHz Turbo) i7-8665U (4C8T 1.9/4.8 GHz Turbo) i7-8565U (4C8T 1.8/4.6 GHz Turbo) i7-8665U (4C8T 1.9/4.8 GHz Turbo) i7-8565U (4C8T 1.8/4.6 GHz Turbo) i7-8665U (4C8T 1.8/4.6 GHz Turbo) i7-8
 WWAN M.2 x? Card (exclusive) 1920 \times 1080 IPS Touch (on cell) 1920 \times 1080 IPS 2560 \times 1440 IPS m ThinkShutterOne TB3 x2 T495[48] May 2019 \ 329 \times 227 \times 17.9 \ 1.54 kg (3.4 lb) 2nd Gen AMD Ryzen 7 Pro 3700U (4C8T 2.3/4.0 GHz Turbo) Ryzen 7 Pro 3700U (4C8T 2.3/4.0 GHz Turbo)
Gen AMD Ryzen Mobile Ryzen 5 Pro 3500U (4C8T 2.1/3.7 GHz Turbo) Ryzen 7 Pro 3700U (4C8T 2.3/4.0 GHz Turbo) 8/16 GiB DDR4 2400 MHz(soldered) AMD Radeon Vega 8 or 10 One M.2 x4 Drive Mini Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 Card (exclusive) 1920 × 1080 IPS Touch (on cell) 1920 × 1080 IPS m ThinkShutterTwo
 USB-C 10 Gbps w/DP 1.4 T14 Gen 1 (Intel)[50] 2020 329 x 227 x 17.9 1.46 kg (3.2 lb) 10th Gen Intel Corei5-10210U (4C8T 1.8/4.9 GHz Turbo) i7-10610U (4C8T 1.
4650U (6C12T 2.1/4.0 GHz Turbo) Ryzen 7 Pro 4750U (8C16T 1.7/4.1 GHz Turbo) 40/48 GiB DDR4 3200 MHz(8/16 GiB soldered, 1 slot) AMD Radeon 7nm Vega 6 or 7 One M.2 x4 Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 Card (?) 1366 × 768 TN 1920 × 1080 IPS Touch (on cell) 1920 × 1080 IPS 1920 × 1080 IPS Low Power1920
× 1080 IPS Touch (on cell) Privacy Guard m ThinkShutterTwo USB-C 10 Gbps w/DP 1.4 T14 Secure Access/Healthcare Edition Gen 1[52] 10th Gen Intel Corei5-10310U (4C8T 1.7/4.4 GHz Turbo) i7-10610U (4C8T 1.8/4.9 GHz Turbo) 40/48 GiB DDR4 2667 MHz(8/16 GiB soldered, 1 slot) Intel UHD 620Optional NVIDIA GeForce MX330 (2 GiB GDDR5)
10310U (4C8T 1.7/4.4 GHz Turbo) i7-10510U (4C8T 1.8/4.9 GHz Turbo) i7-10610U (4C8T 1.8
  PrivacyGuard Touch (on cell) 1920 \times 1080 IPS Low Power 3840 \times 2160 IPS m ThinkShutterOne TB3 x2 T14s Gen 1 (AMD)[54] 329 x 225.8 x 16.1 or 328.8 \times 226.15 \times 16.7 \times 1274.0 \times 1080 IPS Low Power 3840 \times 2160 \times 1080 \times
 1080 IPS Touch (on cell) Privacy Guard3840 \times 2160 IPS}} m ThinkShutterTwo USB-C 10 Gbps w/DP 1.4 Nvidia graphics cards switch with Optimus Technology Recent 15-inch models available from Lenovo are: Model Release date (US) Dimensions (mm) Weight (min) CPU Chipset Memory (max) Graphics Storage Networking Screen Battery Other
 Classic case T500[57] July 2008 357.5 × 255 × 33.5 2.67 kg (5.9 lb) Up to Intel GMA 4500MHD Optional ATI Mobility Radeon HD 3650 (256 MB GDDR3) One 2.5" SATA One Ultrabay Gigabit EthernetWi-Fi Mini PCIe Card Optional BT 2.1 ModuleOptional
WWAN Mini PCIe Card (exclusive) 16:10 aspect ratio1280 × 800 TN 1680 × 1050 TN 1920 × 1200 TN M(9) U One white ThinkLight T510[58] Jan 2010 372.8 × 245.1 × 32-35.8 2.57 kg (5.7 lb) 1st Gen Intel Core Up to i7-640M(2C4T 2.8 GHz 4MB L3) Intel QM57 8 GiB DDR3 1333 MHz or 16 GiB DDR3 1333 MHz or 16 GiB DDR3 1333 MHz (quad core)(2 slots) Intel HD Graphics
Optional NVIDIA NVS 3100M (512MB GDDR3) One 2.5" SATA Drive One Ultrabay Gigabit EthernetWi-Fi Half Mini PCIe Card (exclusive) 1366 \times 768 TN 1600 \times 900 TN 1920 \times 1080 TN M(9) S One white ThinkLight T520[59] Feb 2011 372.8 \times 245.1 \times 31.8-35.6 2.51 kg (5.5 lb) 2nd Gen Intel
 CoreUp to i7-2860QM (4C8T 2.5 GHz 8MB L3) Intel QM67 16 GiB DDR3 1333 MHz (2 slots) Intel HD 3000 Optional NVIDIA NVS 4200M (1 GiB GDDR3) One 2.5" Drive One UltraBay Drive Gigabit EthernetWi-Fi Half Mini PCIe CardOptional BT 3.0 ModuleOptional WWAN mSATA Card 1366 × 768 TN 1600 × 900 TN 1920 × 1080 TN M(9) S One white
ThinkLight T530[60] June 2012 373 \times 245 \times 31.8-35.6 2.45 kg (5.4 lb) 3rd Gen Intel CoreUp to i7-3940XM (4C8T 3.0 GHz 8MB L3) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel PDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel PDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel QM77 16 GiB DDR3L 1600 MHz (2 slots) Intel
 mSATA Card 1366 × 768 TN 1600 × 900 TN 1920 × 1080 TN M(9) S One white ThinkLight Modern case T540p[61] Nov 2013 380 × 253 × 27.9 2.41 kg (5.3 lb) 4th Gen Intel CoreUp to i7-4900MQ (4C8T 2.8 GHz 8MB L3) Intel QM87 16 GiB DDR3L 1600 MHz (2 slots) Intel HD 4600 Optional NVIDIA GeForce GT 730M (2 GiB DDR3) One 2.5" SATA
Drive One Ultrabay Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 SATA Card 1366 × 768 TN 1920 × 1080 TN 2880 × 1620 IPS M(9) u T550[62] Jan 2015 380 × 252 × 22.5 2.26 kg (5.0 lb) 5th Gen Intel Core i5-5200U (2C4T 2.3 GHz 3MB L3) i7-5600U (2C4T 2.3 GHz 3MB L3) i7-5600U (2C4T 2.6 GHz 4MB L3) 32 GiB DDR3L 1600 MHz (2C4T 2.7 GHz 3MB L3) i7-5600U (2C4T 2.7 GHz 3MB L3) i7-5600U (2C4T 2.8 GHz 3MB L3
slots) Intel HD 5500 Optional NVIDIA GeForce 940M (1 GiB DDR3)(Available in Western Europe Only) One 2.5" driveOne M.2 SATA Drive Gigabit EthernetWi-Fi + BT M.2 CardOptional WWAN M.2 SATA Card 1366 × 768 TN 1920 × 1080 TN 2880 × 1620 IPS M(6) m T560[63] Feb 2016 380.6 × 258 × 22.5 2.22 kg (4.9 lb) 6th Gen Intel Core i5-6200U
(2C4T\ 2.3\ GHz\ 3MB\ L3)\ i5-6300U\ (2C4T\ 2.4\ GHz\ 3MB\ L3)\ i7-6500U\ (2C4T\ 2.5\ GHz\ 4MB\ L3)\ i7-6600U\ (2C4T\ 2.5\ GHz\ 4MB\ L3)\ i7-6600U\ (2C4T\ 2.6\ GHz\ 4MB\ L3)\ i7-6600U\ (2C4T\ 2.
 \times 1080 IPS 3840 \times 2160 IPS M(6) m One TB3 x2 T580[65] Jan 2018 366 \times 253 \times 20 1.97 kg (4.3 lb) 7th Gen Intel Core i5 i5-7200U (2C4T 2.5 GHz 3MB L3) i5-8350U (4C8T 1.7 GHz 6MB L3) i7-8550U (4C8T 1.8 GHz 8MB L3) i7-8650U (4C8T 1.9 GHz 8MB L3)
TB3 x2Soldered charging port T590[66] Apr 2019 366 × 248 × 19.1 1.75 kg (3.9 lb) 8th Gen Intel Core i5-8265U (4C8T 1.6 GHz 6MB L3) i7-8665U (4C8T 1.6 GHz 6MB L3) i7-8565U (4C8T 1.6 GHz 6MB L3) i7-8665U (4C8T 1.6 GHz 6
GDDR5) One M.2 x4 Drive Gigabit EthernetIntel Wireless-AC 9560 Wi-Fi + BT 5.0(soldered)Optional WWAN M.2 Card (exclusive) Anti-glare: 1920 × 1080 IPS m ThinkShutterOne TB3 x2Soldered charging port T15[67] May 2020 365.8 × 248 × 19.1 1.74 kg (3.8 lb) 10th Gen Intel Core i5-10210U
 WWAN M.2 Card (?) Anti-glare: 1920 \times 1080 IPS 1920 \times 1080 IPS multi-touch (on cell) 3840 \times 2160 IPS HDR400 Dolby Vision m ThinkShutterOne TB3 x2 T15p[68] 2020 366.5 \times 250 \times 22.7 2.07 kg (4.6 lb) 10th Gen Intel Core Intel WM490 64 GiB DDR4 — 2933 MHz (2 slots) Intel UHD Graphics Optional NVIDIA GTX 1050 (3 GiB GDDR5) Two M.2 x4
Drives Gigabit EthernetOptional WWAN M.2 Card (?) Anti-glare: 1920 \times 1080 IPS 19
or non-ECC(4 slots) Intel UHD Graphics NVIDIA GeForce RTX 2070 SUPER (8 GiB GDDR6) Two M.2 x4 Drives Gigabit EthernetOptional WWAN Anti-glare: 1920 \times 1080 IPS multi-touch (on-cell) 3840 \times 2160 IPS HDR400 Dolby Vision 3840 \times 2160 OLED m ThinkShutterOne TB3 x? Nvidia
graphics cards switch with Optimus Technology. Reviews PCWorld said that the ThinkPad T20 "packs a bigger screen, a more comfortable keyboard, and a larger set of useful features into a smaller package than any of its competitors." [70] The Web site epinions.com said that the ThinkPad T20 was "worth the wait" giving it 4.5 stars out of 5.[71] In a
review of the ThinkPad T60, Notebook Review called the T-series laptops the "flagship of the ThinkPad brand",[72] aimed at corporate professionals.[1] Some of the T-series characteristics as listed by notebookreview.com include durability, security, usability, and performance.[73] The ThinkPad T410 was awarded 4.5 out of 5 stars by Notebook
 Review upon release.[74] The review noted the centering of the screen, eliminating the thick bezel on one side and the thin bezel on the other.[75] The review indicated that the pros were the speed, battery life, and wide selection of ports.[76] The review indicated that the pros were the speed, battery life, and wide selection of ports.[76] The review indicated that the pros were the speed, battery life, and wide selection of ports.[76] The review indicated that the pros were the speed, battery life, and wide selection of ports.[76] The review indicated that the pros were the speed, battery life, and wide selection of ports.[76] The review indicated that the pros were the speed, battery life, and wide selection of ports.[76] The review indicated that the pros were the speed, battery life, and wide selection of ports.[76] The review indicated that the pros were the speed, battery life, and wide selection of ports.[76] The review indicated that the pros were the speed, battery life, and wide selection of ports.[76] The review indicated that the pros were the speed, battery life, and wide selection of ports.[76] The review indicated that the pros were the speed, battery life, and wide selection of ports.[76] The review indicated that the pros were the speed, battery life, and wide selection of ports.[76] The review indicated that the pros were the speed, battery life, and the pros were the speed in the speed in the pros were the speed in the speed in the pros were the speed in the speed in the speed in the pros were the speed in the speed in
 reviewed the T410 laptop positively, saying that "Lenovo's thoughtful ThinkPad is a near-perfect machine".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine".[78] The PC Advisor review of the ThinkPad is a near-perfect machine".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of the ThinkPad is a near-perfect machine ".[78] The PC Advisor review of
from others in the market.[80] The T420 and T520 laptops were different from their predecessors mainly through an upgrade to Intel's Sandy Bridge processors.[81] The T420 and T520 laptops were different from their predecessors mainly through an upgrade to Intel's Sandy Bridge processors.[81] The T420 and T520 laptops were different from their predecessors mainly through an upgrade to Intel's Sandy Bridge processors.[81] The T420 and T520 laptops were different from their predecessors mainly through an upgrade to Intel's Sandy Bridge processors.[81] The T420 and T520 laptops were different from their predecessors mainly through an upgrade to Intel's Sandy Bridge processors.[81] The T420 and T520 laptops were different from their predecessors mainly through an upgrade to Intel's Sandy Bridge processors.[81] The T420 and T520 laptops were different from their predecessors mainly through an upgrade to Intel's Sandy Bridge processors.[81] The T420 and T520 laptops were different from their predecessors mainly through an upgrade to Intel's Sandy Bridge processors.[81] The T420 and T520 laptops were different from their predecessors mainly through an upgrade to Intel's Sandy Bridge processors.[81] The T420 and T520 laptops were different from their predecessors mainly through an upgrade to Intel's Sandy Bridge processors.[81] The T420 and T520 laptops were different from their predecessors mainly through an upgrade to Intel's Sandy Bridge processors.[81] The T420 and T520 laptops were different from their predecessors mainly through an upgrade to Intel's Sandy Bridge processors.[81] The T420 and T520 laptops were different from their predecessors mainly through an upgrade to Intel's Sandy Bridge processors.[81] The T420 and T520 laptops were different from their predecessors mainly through an upgrade to Intel's Sandy Bridge processors mainly through an upgrade to Intel's Sandy Bridge processors mainly through an upgrade to Intel's Sandy Bridge processors mainly through the Intel's Sandy Bridge processors mainly throug
the T420, the T420s, and the T520, have been lauded for their battery life - up to 30 hours with a 9-cell battery slice.[84] Gallery T22 or T23 before the extreme viewing angle 43p compared against a T60p (both laptops are 15") A 15" T60p (left) compared against a
14" T60p (right) T61 running Windows 10. Note the ThinkLight being switched on. T410 T420s, slim version of T420 T430 keyboard T440 T460 T410 with Win10 References ^ a b c d e f g h "The History of the ThinkPad". IBM. Retrieved June 1, 2011. ^ "IBM ThinkPad T20". Archived from the original on October 18, 2012. With the ThinkPad T20, the
 follow-up to the popular ThinkPad 600 series, IBM sets a new standard for travel notebooks ^ "IBM ThinkPad T20". Archived from the original on October 18, 2012. With a travel bezel in its modular bay, the T20 weighs only 4.6 pounds, the lightest we've seen for a notebook with a 14.1-inch (360 mm) screen. ^ "IBM ThinkPad T20". Archived from the
original on October 18, 2012. Even carrying the internal 8X DVD-ROM drive you get at this price, it still weighs only 5.2 pounds. ^ "ThinkPad T 21 in October 2000, with all the main enhancements being the brand-new Intel CPU to
as much as Intel Mobile Pentium III 850 MHz, a higher resolution 14.1 in TFT display having 1400 × 1050, as well as hard drive capacities as much as 32 GB. {{cite web}}. CS1 maint: bot: original on 2012-02-05. The real game changer was in fact
 the roll-out of the ThinkPad T30 in May 2002. This T30 had a choice of specifying the Intel 845MP Mobile Pentium 4-M processor to as much as 2.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as much as 2.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as much as 2.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as much as 2.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as much as 2.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as much as 2.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as much as 2.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as much as 2.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as much as 2.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as much as 2.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as much as 2.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as much as 2.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as much as 2.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as much as 2.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as 1.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as 1.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as 1.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as 1.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as 1.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as 1.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as 1.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as 1.4 GHz running together with the Intel 845MP Mobile Pentium 4-M processor to as 1.4 GHz running tog
2012-02-05. Together with the ATI Mobility Radeon 7500 video controller with 16 MiB graphics memory and a 14.1" LCD display with as much as 1400 × 1050 resolution and the option of 1 GiB PC2100 RAM, it was a real sharp performer. {{cite web}}: CS1 maint: bot: original URL status unknown (link) ^ "ThinkPad T Series - History and"
 Development". Archived from the original on 2012-02-05. You could stipulate a 60 GB hard drive, a DVD-ROM/CD-RW Combo drive combo for the UltraBay and with its Intel AC'97 Audio this particular fantastic compact notebook computer was capable of running your films back in the hotel after a hard day's work. {{cite web}}: CS1 maint: bot:
original URL status unknown (link) ^ "ThinkPad T Series - History and Development". Archived from the original on 2012-02-05. The moment the ThinkPad's {{cite web}}: CS1 maint: bot: original URL status unknown (link) ^
 "ThinkPad T Series - History and Development". Archived from the original on 2012-02-05. the ThinkPad T40p with the ATI Mobility FireGL 9000 with 64 MiB ram, a 14.1" TFT display with 1400×1050 resolution, still only 2 MiB PC2100 ram as maximum, but with a 60 Gigabyte 7200 RPM Hard Disk for speedy data access. {{cite web}}: CS1 maintains
 bot: original URL status unknown (link) ^ Walton, Jarred. "IBM's ThinkPad T42 LCD: A Blast from the Past". www.anandtech.com. Retrieved 2019-01-18. ^ "ThinkPad T43 as well as ThinkPad T43 as well as
introduced in April 2005, with Lenovo concluding the acquisition of the trademark in May 2005. {{cite web}}: CS1 maint: bot: original URL status unknown (link) ^ "Sale of I.B.M. PC Unit Is a Bridge Between Cultures". New York Times. December 8, 2004. ^ "IBM Sells PC Group to Lenovo". ZSNet. December 8, 2004. ^ "ThinkPad T Series - History
and Development". Archived from the original on 2012-02-05. The very first Lenovo owned T Series were the ThinkPad T60 along with T60p released in February 2006, although these were nevertheless sporting the IBM badge, and also had been needless to say designed within ThinkCentre Global Head Quarters in Raleigh North Carolina, as all
 ongoing ThinkPads even now are. {{cite web}}: CS1 maint: bot: original URL status unknown (link) ^ "ThinkPad T Series - History and Development". Archived from the original URL status unknown (link) ^
 "ThinkPad T61u notebook models feature Microsoft Windows Vista or XP Professional and three-year dep". ibm.com. 2008-02-19. Retrieved 2018-10-29. ThinkPad T Series - History and Development". Archived from the original on 2012-02-05. the very first 'real' Lenovo ThinkPad's arrived with the ThinkPad T400 and T500 in July 2008. {{cited or No. 1000 and 1500 in July 2008.}}
 web}}: CS1 maint: bot: original URL status unknown (link) ^ "Review Lenovo Thinkpad W500 Notebook". Until now the Thinkpad T-Model from Leonovo, which was enhanced after the short ending -p, set the standard for professional users with high performance demands. After a complete overhaul of the Lenovo product lineup, coincident with the
launch of the Intel Centrino 2, Lenovo is now starting a few new notebook series. Among them are the new mobile workstations with the labels W500 and W700, which are meant to replace the Thinkpad Txxp models. ^ "Review Lenovo Thinkpad W500 and W700, which are meant to replace the Thinkpad W500 and W700, which are meant to replace the Thinkpad Txxp models. ^ "Review Lenovo Thinkpad W500 and W700, which are meant to replace the Thinkpad Txxp models. Among them are the new mobile workstations with the labels W500 and W700, which are meant to replace the Thinkpad Txxp models.
 who want maximum performance paired with practical mobility. ^ Staff, Ars (2018-04-01). "The 25th-anniversary ThinkPad: Every laptop should add some retro appeal". Ars Technica. Retrieved 2022-01-24. ^ a b c d e "ThinkPad turns 25: Here are 25 facts to mark the anniversary". ZDNet. Retrieved 2022-01-24. ^ a b c d e "ThinkPad".
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 "ThinkPad T470p Platform Specifications" (PDF). ^ "ThinkPad A475 Platform Specifications" (PDF). ^ "ThinkPad T480 Platform Specifications" (PDF). ^ "ThinkPad T480 Platform Specifications" (PDF). ^ "ThinkPad T480 Platform Specifications" (PDF). ^ "ThinkPad T480s Platform Specifications" (PDF). ^ 
 Edition Platform Specifications. "Lenovo PSREF" ^ ThinkPad T14s Gen 1 (Intel) Platform Specifications ^ "ThinkPad T14s Gen 1 (AMD) Platform Specifications ^ "ThinkPad T14s Gen 1 (Intel) Platform Specifications ^ "ThinkPad T14s Gen 
 Specifications ^ Lenovo ThinkPad T510 Notebook Specifications ^ Lenovo ThinkPad T520 Notebook Specifications ^ Lenovo ThinkPad T530 Notebook Specifications ^ Lenovo ThinkPad T540 Notebook Specifications ^ Lenovo ThinkPad T570 Notebook Specifications ^ Lenovo ThinkPad T540 Notebook Specifications ^ Lenovo T
  Platform Specifications" (PDF). ^ "ThinkPad T580 Platform Specifications" (PDF). Lenovo.com. ^ "ThinkPad T15g Gen 1 Platform Specifications" (PDF). Lenovo.com. ^ "ThinkPad T15g Gen 1 Platform Specifications" (PDF).
  Lenovo.com. ^ "IBM ThinkPad T20". Archived from the original on October 18, 2012. Although it wears the third-highest price tag in our two-spindle notebooks roundup, the $3699 ThinkPad T20 is worth every penny. It packs a bigger screen, a more comfortable keyboard, and a larger set of useful features into a smaller package than any of its
competitors. It should delight ThinkPad fans and newcomers looking for a lightweight notebook hampered by few compromises. ThinkPad T20 Review. The ThinkPad T20 Review. The ThinkPad T30 Review. ThinkPad T410 Review. Thin
"Lenovo ThinkPad T410 Review". The full-redesigned Lenovo ThinkPad T410 offers quite a few enhancements over the previous generation T400, including less keyboard flex, an updated keyboard flex, and updated keyboard flex, an updated keyboard flex, an updated keyboard flex, and updat
Screen shows some distortion when flexing, High pitched fan could be annoying ^ "Lenovo's Thoughtful ThinkPad Is a Near-Perfect Machine". Wired. September 15, 2010. ^ "Lenovo ThinkPad Is a Near-Perfect Machine". Wired. September 15, 2010. ^ "Lenovo ThinkPad Is a Near-Perfect Machine".
"Lenovo ThinkPad T510 review". The Lenovo ThinkPad T510 notebook has the same business-like look, the same sturdy build quality, and most of the features that make ThinkPads standout from other business laptops. ^ "Review Lenovo ThinkPad T510 notebook". Essentially, the Tx20 laptops only differ from the previous models, called T410 and
T510, by a hardware refresh to the new Sandy Bridge processors. ^ "Notebook Check - T420 Review". ^ "PCMag - Lenovo ThinkPad T420s, T420 and T520: up to 30 hours battery life". Battery life is up to 15
hours with the 9-cell pack on the T420, or up to 11 hours with the 9-cell on the T520; the T420s can last up to 10 hours with the optional 9-cell battery slice and it will run for a ridiculous 30 hours. External links Wikimedia Commons has media related to
ThinkPad T series. Official website ThinkPad T Series at Thinkwiki.org, Linux guides to Thinkpads Retrieved from "
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