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IdeaPad 120S 2018-06-18 Yes - Yes Yes Yes IdeaPad Flex 10 2015-02-13 Yes Yes - Yes Yes Yes IdeaPad Flex 14 2021-05-22 Yes Yes Yes IdeaPad S100 2021-12-30 Yes Yes - Yes Yes Yes IdeaPad S400 Touch 2014-01-23 Yes Yes Yes Yes IdeaPad U430p 2015-08-20 Yes Yes Yes Yes IdeaPad U700 2015-12-01 Yes Yes\* Yes Yes Yes Untested Trackpad - buggy Trackpad requires pata legacy to be blacklisted IdeaPad Z580 2017-01-20 Yes Yes Yes Yes IdeaPad Z20s 2018-03-01 Yes Yes - Yes Yes Yes Fingerprint reader IdeaPad Z20s (AMD) 2018-02-01 Yes Yes - Yes\* Untested Untested Untested - Fingerprint reader Ideapad 320 2018-03-01 Yes Yes Yes Yes Untested To stop constant annoying messages by AMD-Vi, use iommu=soft & amd\_iommu=off Ideapad 320-151KB 2018-03-01 Yes Yes Yes Yes Yes Fingerprint does not work. There is a dead driver project and little/no hope of Lenovo or Synaptics developing a driver for Linux Ideapad 330 (AMD) 2019-02-07 Yes Yes - Yes Yes Untested ivrs ioapic[32]=00:14.0 kernel parameter required to make the Touchpad work. Ideapad 330S-141KB 2019-10-01 Yes Yes Yes Yes Untested Firmware Error (ACPI): Could not resolve [^^^GFX0.AFN2], AE\_NOT\_FOUND (20181213/psargs-503) log spam requires disabling ACPI (acpi=off) or connecting to a charger. Ideapad N24 2018-04-01 Yes Yes Untested Yes Untested Untested Ideapad 3-15ARE05 2020-10-27 Yes Yes Untested Yes Yes Yes Touchpad requires blacklisting elants\_i2cfngeingerprint sensor 04f3:0c57 is not supported in fprint IdeaPad 5 15ITL05 2020-09-15 Yes Yes\* - Yes Yes Untested xbacklight does not work (use light)/fingerprint sensor 27c6:55a2 is not supported in fprint IdeaPad 5 15are05 2020-11-09 Yes Yes - Yes Yes Yes Screen backlight control requires acpi\_backlight=videofingerprint sensor 27c6:55a2 is not supported in fprint IdeaPad 3 Gaming 15ARH05 2021-11-03 Yes Yes Yes Yes Yes Fn+Q appears working but ideapad laptop does not show said changes in fan mode Ideapad 5 Pro 16ACH 2021-12-13 Yes Yes - Yes Yes Yes No software control for keyboard backlight, always disabled at boots: Fn+Space works. IdeaPad 5 Pro 14ACN6 2022-04-24 Yes Yes Yes Yes Yes - Legion series Model version Date Video Sound Ethernet Wireless Bluetooth Power management Other Remarks Legion Y520 2020-10-06 Yes Yes Yes Yes Yes Yes SD card (Flaky) Possible CPU throttling. Fan control does not seem to work Legion Y730 2019-09-12 Yes Yes Yes Yes Yes Untested: USB-C Disable nouveau with module blacklist=nouveau or nouveau.modest=0 Legion Y7000P-1I60 2019-09-27 Yes Yes Yes Yes Yes Untested: Mmi DisplayPort Legion Y540 2020-02-01 Yes Yes Yes Yes Yes Yes Hibernation requires intel\_lpsx\_pci in initramfs Legion Y545 2020-05-01 Yes Yes Yes Yes Yes Untested: Mini DisplayPort Legion 5 2020-11-05 Yes Yes Yes Yes Yes Brightness control might require to be explicitly enabled Legion 5i 2020-08-15 Yes Yes Yes Yes Yes Untested: USB-C Legion 5Pi 2020-08-11 Yes Yes Yes Yes Untested Yes Untested: HDMI Legion 7i 2020-08-02 Yes No Yes Yes Yes Untested: HDMINVIDIA GPU Legion 5 Pro 2021-07-21 Yes Yes Yes Yes Cannot see CPU temperature or control fans. RGB keyboard can be controlled with l5p-klb. 165Hz requires EDID hack on dynamic mode (16ACH6H model). Brightness control works on NVIDIA beta 51.0. WiFi adapter requires linux-firmware. Legion Y7000 2019 PGO 2022-06-18 Yes Yes Yes Yes Yes Untested: Mini DisplayPortHDMI Hibernation requires intel\_lpsx\_pci module in initramfs Nano Series Model version Date Video Sound Ethernet Wireless Bluetooth Power management Other Remarks ThinkPad X1 Nano 2022-04-13 Yes Yes\* - Yes Yes Yes Yes Yes Fingerprint Reader ThinkBook series Model version Date Video Sound Ethernet Wireless Bluetooth Power management Other Remarks ThinkBook 13s Gen 2 AMD 2021-05-09 Yes Yes - Yes Yes Untested: Fingerprint ThinkBook 13s Gen 2 Intel 2021-04-16 Yes\* Yes\* - Yes Yes Yes No: Fingerprint \*modesetting fixes browser freezesinternal mic requires custom topology ThinkBook 14p Gen 2 ACH (AMD) 2022-07-02 Yes Yes - Yes Yes Yes No: Elan Fingerprint 04f3:0c4b See DSDT Patch to enable S3 suspend ThinkBook 14 Gen 3 ACL (AMD) 2021-11-17 Yes Yes Yes Yes Yes No: Elan Fingerprint 04f3:0c4b ThinkBook 15 Gen 2 ITL 2022-05-23 Yes Yes\* Yes Yes Yes Yes Probably works: Elan Fingerprint See battery conservation section ThinkBook 15 Gen 2 AMD 2021-02-22 Yes Yes Yes Yes Yes No: Elan Fingerprint 04f3:0c4b See battery conservation section ThinkBook 16p Gen 2 AMD 2021-12-06 Yes Yes - Yes Yes Yes No: Elan Fingerprint 04f3:0c4b Yoga Series Model version Date Video Sound Ethernet Wireless Bluetooth Power management Other Remarks ThinkPad Yoga 14 2020-09-14 Yes Yes - Yes Yes Yes Partial: Tablet Hardware maintenance available. ThinkPad Yoga 260 2018-05-17 Yes Yes - Yes Yes Untested Fingerprint Reader (Unknown), Tablet (Partial), Accelerometer (No) ThinkPad Yoga 370 2021-04-25 Yes Yes - Yes Yes Yes ThinkBook 14s Yoga TTL 2020-09-29 Yes Yes - Yes Yes Yes Untested: Thunderbolt Yoga 530 2019-09-29 Yes Yes - Yes Untested Untested SD card (Not tested), Fingerprint Reader (Not tested), Tablet (Partial) Touchpad needs i8042.noloop i8042.nomux i8042.nopnp i8042.reset and x86-input-synaptics. Yoga 710 2019-10-05 Yes Yes - Yes Untested Yes Yoga 720 2022-01-06 Yes Yes - Yes Yes Yes No: Fingerprint Reader Yoga S740-151RH 2022-01-16 Yes Yes - Yes Yes Yes Fingerprint Reader (Not tested), SD card (No) Yoga 9 14ITL5 2021-08-24 Yes Yes - Yes Yes Yes No: Fingerprint Reader Yoga 920 2020-09-12 Yes Yes - Yes Yes Yes No: Fingerprint Reader Yoga c930 2020-01-17 Yes Yes\* - Yes Untested Yes \*See for more information and fixes. Yoga Slim 7 (AMD) 2020-09-03 Yes Yes - Yes Yes Partial: No Suspend Untested: Fingerprint Reader See for more information and fixes. Yoga Slim 7 Pro (14sARH 2021) 2022-01-20 Yes Yes - Yes Yes Yes\* \*BIOS version G7CN16WW or above needed for S3 sleep to work. Yoga Slim 7i Pro (Intel Core i7) 2021-10-01 Yes\* Yes\* - Yes Yes Untested \*Panel Self Refresh needs i915.enable\_psr=0 to prevent flickering. Keyboard needs i8042.direct and i8042.dumbkbd. Yoga Slim 9 14ITL5 2021-04-11 Yes Partial - Yes Yes Yes Touchpad requires additional work, keyboard needs special kernel parameter. Yoga C740 2021-01-17 Yes Yes\* - Yes Yes Yes No: Fingerprint Reader Yoga Duet 7 13IML05 2020-05-27 Yes No - Yes Yes Yes Untested: SD Card Detachable keyboard/trackpad will connect via Bluetooth, but no events are received. Yoga 9i 15IMH5 2021-09-13 Yes Yes - Yes Yes Yes No: Fingerprint Reader Issue with bottom speakers. Touchscreen on X handles fingers poorly, OK with stylus, perfect with Wayland. Yoga Slim 7 Carbon 14ACN6 2022-03-29 Yes Yes\* - Yes Yes Yes \*Speakers have very low volume Troubleshooting The factual accuracy of this article or section is disputed. Reason: Lots of vague or unproven bugs/workarounds, poor writing (Discuss in Talk:Laptop/Lenovo) ThinkPad E485 Missing IVRS map in ACPI Table, add amd\_iommu=pt ivrs\_ioapic[32]=00:14.0 in kernel parameters. In order to get X to work correctly, add iommu=soft in kernel parameters (Linux 4.20 only). On Linux 5.2, add iommu=pt to prevent render artifacts on X. In order to get microsd (SDHCI) working, echo `options sdhci debug quirks2="0x8000"' > /etc/modprobe.d/sdhci.conf and change module load order MODULES=(sdhci sdhci\_pci) in /etc/mkinitcpio.conf (line 7). Do not forget to run mkinitcpio -p linux afterwards. If WiFi does not work on RTL8822B/E adapter models, create a file /etc/modprobe.d/wifi.conf and add the following lines: blacklist rtw\_pchblacklist rtwpci. Then, install rtl88-dkms-gitAUR and reboot. ThinkPad E595 To solve all these issues mentioned here easier just install the latest BIOS update from Lenovo support website. Missing IVRS map in ACPI Table, add amd\_iommu=pt ivrs\_ioapic[32]=00:14.0 in kernel parameters. In order to get X to work correctly, add iommu=soft in kernel parameters (Linux 4.20 only). In order to get microsd (SDHCI) working, echo `options sdhci debug quirks2="0x8000"' > /etc/modprobe.d/sdhci.conf and change module load order MODULES=(sdhci sdhci\_pci) in /etc/mkinitcpio.conf (line 7). Do not forget to run mkinitcpio -p linux afterwards. Bluetooth does not work until a suspend/resume cycle occurs. ThinkPad E595 Update the bios, if missing IVRS map in ACPI Table. Bios update can help if Ethernet is not working. MicroSD does not work out of the box, see above (Lenovo ThinkPad E585) to fix it. Wake up from suspend broken on X.Org with kernel >= 5.2; works with kernel >= 5.6 Add acpi backlight=vendor in kernel parameters to fix systemd warning Failed to start Load/Save Screen Backlight Brightness of backlight:acpi\_video0 ThinkPad E15 Gen 2 Resume from hibernate will not work until intel\_lpsx\_pci is added to MODULES() in /etc/mkinitcpio.conf. See Power management/Suspend and hibernate#Suspend/hibernate does not work, or does not work consistently for details. The trackpoint and physical buttons will stop working after resuming from hibernate. Use modprobe -r psmouse followed by modprobe psmouse to get the functionally back Fingerprint reader is unsupported. Neither fprintd nor libfprint-tod will work. If the Fn keys do not work, to update the BIOS, download the "Bootable CD" of the BIOS Update, and use geteltoritoAUR to extract the .img with geteltorito.pl -o bios.img downloaded.iso, then use etcher / mintstickAUR / dd to make a bootable USB. See [1] for details. ThinkPad T440p ClickPad: the whole trackpad clicks, and disabling the trackpad using older versions of synclient makes the trackpoint essentially unusable. This has been resolved in newer versions of xf86-input-synaptics. Audio: HDMI audio is the default audio output device. Consult the ALSA page for details on changing the default. As the X100e/Mini10, it's possible to mute the headset and speaker outputs separately to the master. Muting the speaker output improves bass output on the headset port. If the system fails to wake from sleep, it can lose sync with the internal audio card and speakers/headphones may fail to work. In this case, put the system to sleep, and wake it again and audio functionality should be restored. The fingerprint sensor is a Validity VF55011, available in fprint. thinkpad\_acpi: To toggle Fn-Lock, press Fn + Esc, this will toggle the LED on the keyboard. While the Fn LED is on all Fn functionalities work as intended out of the box. Controlling the 'glowing I' LED is apparently not possible. fan control does not seem to work. Graphics and Video: With the integrated GPU, xrandr can crash while attaching or detaching displays connected via the dock. The built-in miniDisplayPort will sometimes spew I°C issues into the kernel log. Hardware video acceleration is highly recommended as it performs significantly better than CPU decoding of large media files. The BIOS should not be upgraded past version 1.14, as newer BIOSes cause memory corruption when used with Bumblebee. See Bumblebee GitHub Connectivity: Bluetooth is extremely fragile. The controller works fine most of the time, but can cause the system to wedge totally on sleep/wake cycles, especially if a connection was active at sleep. Disable the controller using bluetoohctl before sleeping. ThinkPad X260 Panel Self-Refresh (PSR) can cause the screen to randomly freeze every few minutes. This can be fixed by disabling PSR. See for more details. IdeaPad Y700 The subwoofer needs to get it working. IdeaPad 3 14HIL05 Passing pci=nocrs as kernel parameter fixes the touchpad. Unfortunately this also disabled my wifi(it was seen by iwctl but never presented a station no matter what i did). I see others online also have this problem(various posts on stackexchange etc). I finally managed to fix it by also passing pci=realloc so the full line is: pci=nocrs pci=realloc for getting both wifi and touchpad working. Note: I am using refind as boot manager(holy cow so much more straight-forward and less confusing than grub2) and i seem to recall being unable to boot with pci=realloc using grub2. This could just be me dreaming though so it probably bears testing first. Everything else works, except the brightness keys - which sometimes work, and sometimes do not. I have not figured out in which instance they work or not yet. B50-70 UEFI: to be able to disable Secure Boot (necessary for Linux only), you have to switch from "UEFI first" to "UEFI only" (or something like this) in UEFI setup menu; the Secure Boot option appears then on the Security tab after UEFI update having Linux and Windows installed, the Linux bootloader ceased to be the default one, UEFI started to load Windows by default and it was impossible to select the Linux one in the UEFI boot menu and in the UEFI setup - reinstalling the bootloader helped; having no access to a boot media that supports UEFI, a solution might be also replacing the Windows EFI bootloader file with a Linux one temporarily, in order to be able to boot Linux from HDD for the UEFI update, a Windows OS is needed Touchpad: Synaptics - works after installing Synaptics drivers from repo, possible to change behaviour (like reaction for double tap) according to your wish Video: in laptops with dual video card (Intel and ATI) - detects both, Intel is active as a default, not checked if it's possible at all to switch between them Operation with a HDD caddy When you install an SSD in the place of the plate HDD drive and you want to have your HDD still inside the laptop, it is possible to install it in the place of the optical drive in a special "HDD caddy". The optical drive is of 9 mm height, but a 9.5 mm caddy (ultra slim) fits in the slot. A caddy with a SATA interface is needed. It is difficult to separate the front bezel from the original optical drive (and opening its case does not help, but brings a danger of making a mess in the opening mechanism: the only option is just to pull the bezel using a bit of force, but you risk breaking the latches). While the HDD installed instead of the optical drive operates flawlessly in Windows, it was not going to work out of the box in Linux, at least in one case. The kernel tries to establish a connection with the disk, but fails to do it (SATA link down entry in /var/log/messages). The solution is to force a 1.5 Gbps transfer speed (instead of 6 Gbps) by adding a libata.force= kernel parameter. See [4] for details. N200 (3000) Sound: You may have to append options snd\_hda\_intel model=lenovo to /etc/modprobe.d/modprobe.conf for sound to work. S21e-20 Tested with broadcom-wl-dkms 802.11 wireless driver There is an issue with tcpaci-bat not reporting the right value for the stop threshold. This seems to be related to a buggy BIOS and can not be fixed application wise. See See also ThinkWiki Installing and configuring Arch Linux on ThinkPad X1 Carbon

A diagram of a simple kinematic chain.

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