Lenovo Ideapad 710S-13IKB

1.1. Hardware
See:
https://www.trustedreviews.com/reviews/lenovo-ideapad-710s-13isk

1.2. Upgrade Bios for Linux
General info:

Updated BIOS for Ideapad 710S-13IKB

After running the exe to upgrade BIOS, I got this message:
"ERROR 182 - BIOS image is equal or older than ROM"

1.2.1. Access BIOS
You can access the BIOS of a Lenovo Ideapad computer by means of pressing F2 (Fn + F2) just after pressing the start button on your keyboard.

1.3. DualBoot (via AHCI drive mode)
Inspired by this post, which confirmed that dual booting on these lenovo ideapad machines is possible with some config changes:

See changes needed to the Windows:
http://triplescomputers.com/blog/uncategorized/solution-switch-windows-10-from-raidide-to-ahci-operation

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SOLUTION: Switch Windows 10 from RAID/IDE to AHCI operation

Posted on June 16, 2016

PSA: You should not be attempting these fixes unless you’re a professional! And it goes without saying, you will ALWAYS need your local admin password, recovery media, and backups of your data before fooling around with low-level storage driver configuration — or really anything else for that matter. See the comments section below for examples of a couple of people who ran into mishaps after encountering other underlying issues or forgetting their admin password before starting the process. PROCEED AT YOUR OWN RISK!

It's not uncommon to find a system on which RAID drivers have been installed and something like the Intel Rapid Storage Technology package is handling storage devices, but where an SSD might require AHCI operation for more optimal performance or configurability. In these cases, there is in fact a way to switch operation from either IDE or RAID to AHCI within Windows 10 without having to reinstall. Here's how.

   1. If you don't see Command Prompt listed, it's because you have already been updated to a later version of Windows. If so, use this method instead to get to the Command Prompt:
      1. Click the Start Button and type cmd
      2. Right-click the result and select Run as administrator
   2. Type this command and press ENTER: `bcdedit /set {current} safeboot minimal`
   3. If this command does not work for you, try `bcdedit /set safeboot minimal`
   4. Restart the computer and enter BIOS Setup (the key to press varies between systems).
   5. Change the SATA Operation mode to AHCI from either IDE or RAID (again, the language varies).
   7. Type this command and press ENTER: `bcdedit /deletevalue {current} safeboot`
      1. If you had to try the alternate command above, you will likely need to do so here also: `bcdedit /deletevalue safeboot`
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8. Reboot once more and Windows will automatically start with AHCI drivers enabled.
   That’s all there is to it! Special thanks to Toobad here for outlining this procedure.

Update 8/2/17: Thanks also to Aalaap Ghag for clarification of instructions for those who have already updated to the Creators Update. Thanks also to those who wrote in about removing {current} to make this work for some users.

1.4. Allow Virtualization (VTx)
You can enable to run virtualized computers inside your laptop by means of enabling the required option in your BIOS (see how to access your BIOS in an earlier section in this page).

Go to BIOS (Fn + F2) and enable Configuration > Intel Virtual Technology (which was disabled by default)

In other computers/brands/bios, the naming changes to something like Hardware Virtualization, VTx, etc.

1.5. Ubuntu LTS
See 16.04, 18.04 or 20.04 pages.

1.5.1. Keyboard Backlight
Manage keyboard backlight with Fn + Space bar:

Some Lenovo laptops have keyboard backlights, and they can be turned on using Fn + Space. There are three states: off, normal and bright.

1.5.2. Screen Resolution
IT’s so powerfull, that max screen resolution (default value set by kde) makes things too small for me (I'm getting old-ish ;-), and in normal condition, I'd rather prefer to have it at:

- 1440 x 810 px

1.6. Links
FLOSS rocks 😊

Alias names for this page:
lenovo | ideapad | ahci

[1] https://www.trustedreviews.com/reviews/lenovo-ideapad-710s-13isk