



GitHub PineTab 2 Built In WiFi Chip Instruction Manual

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GitHub PineTab 2 Built-In WiFi Chip



Product Information

PineTab 2

The PineTab 2 is a tablet device that allows you to connect to the internet using various methods. It comes with a built-in Wi-Fi chip (BES2600), although the driver for this chip may not be stable or functioning properly at the moment. The tablet is compatible with USB Wi-Fi adapters and USB Ethernet adapters, which can be used to establish an internet connection. Additionally, you can use your mobile phone or tablet as a USB Wi-Fi adapter by connecting it to the PineTab 2 using an OTG adapter.

Please note that when connecting USB adapters, it is important to plug them into the top USB port of the PineTab 2. The bottom port is solely for charging and data transfer between the tablet and a computer.

Compatible USB Wi-Fi Adapters

You can find a list of compatible USB Wi-Fi adapters for the PineTab 2 [here](#). It is recommended to avoid multi-state Wi-Fi adapters as they can be challenging to set up under Linux.

Compatible USB Ethernet Adapters

Most USB Ethernet adapters should work with the PineTab 2, including the RTL8152 (Fast Ethernet – USB 2.0) and RTL8153 (Gigabit Ethernet – USB 3.0) chipsets. It is advisable to check reviews and ensure that the Ethernet

adapter you purchase is supported in the mainline Linux kernel.

Using Your Mobile Phone as a USB Wi-Fi Adapter

If you do not have any USB Wi-Fi adapters, you can utilize your mobile phone or tablet as a USB Wi-Fi adapter. Connect your mobile device to the PineTab 2's top USB port using an OTG adapter. However, please be aware that you may incur additional charges from your mobile carrier for tethering. Check your mobile plan and carrier policy regarding tethering before proceeding.

Android:

Different Android user interfaces (e.g., MIUI, OneUI) may have varying menus and appearances. If you are unsure, it is recommended to refer to a tethering guide specific to your device's user interface. The following instructions are for LineageOS 18.1 (Android 11):

1. On your mobile device, open the Settings app.
2. Navigate to Network & Internet.
3. Navigate to Hotspot & Tethering.
4. Tap on USB Tethering.

Your PineTab 2 should now detect a new network device. You can test the connection by pinging a server or opening a website.

Apple iOS:

Please note that the developer and guide writer do not use an Apple device.

For instructions on how to set up USB tethering on Apple iOS, you can refer to the support page provided by Apple: <https://support.apple.com/guide/iphone/share-your-internet-connection-iph45447ca6/ios>

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Connecting your PineTab 2 to the internet

- Currently, the built-in Wi-Fi chip (BES2600) does not have a stable/functioning driver yet. We hope that this situation will change in the future.
- For now, there are several ways to connect to the internet on your PineTab 2.

Using a USB Wi-Fi adapter

- Most USB Wi-Fi adapters from the list below should work with the kernel shipped with the Linux distro used on PineTab 2.
- You can see the list of compatible Wi-Fi adapters here: <https://github.com/morrownr/USB-WiFi>
- It's recommended to avoid multi-state Wi-Fi adapters as they can be difficult to set up under Linux.
- When connecting your USB Wi-Fi adapter, make sure that the USB adapter is plugged into the top port. The

bottom port is only for charging and transferring data to the computer.

Using a USB Ethernet adapter

- Most USB Ethernet adapters should work with the kernel shipped with the Linux distro used on the PineTab 2.
- The following Ethernet chipset has been tested:
- RTL8152 (Fast Ethernet – USB 2.0)
- RTL8153 (Gigabit Ethernet – USB 3.0)
- It's recommended that you check reviews to see if the Ethernet adapter you buy is supported in the mainline Linux kernel.
- When connecting your USB Ethernet adapter, make sure that the USB adapter is plugged into the top port. The bottom port is only for charging and transferring data from computer to tablet.

Using your mobile phone

- If you do not own any USB Wi-Fi adapters but have a mobile/tablet device that can connect to the internet (either via mobile data or Wi-Fi), you can use that as a USB Wi-Fi adapter!
- You are responsible for any extra charge from your mobile carrier for tethering, so be sure to check your mobile plan and/or your mobile carrier policy about tethering.

The following is required for this method:

- Mobile device running Android or iOS (other OS can be adapted but this will not be covered in the guide)
- USB cable with plug type for your device
- USB Type-C OTG adapter (you may not need this if you have a C-C cable, though the person writing this guide hasn't tested it)
- First, connect your mobile phone to the PineTab 2 to the top port using the OTG adapter.
- The PineTab 2 has two USB ports. The below port is used for charging and transferring data from computer to tablet, the top port is only for host devices (e.g. flash drives, keyboards, mice, modem).

Android:

- Some Android user interfaces (MIUI, OneUI,...) may have different menus and looks. If you're unsure, then it's recommended to look for a tethering guide for your specific UI.

The following instructions are for LineageOS 18.1 (Android 11):

1. On your mobile device, open the "Settings" app.
 2. Navigate to "Network & Internet"
 3. Navigate to "Hotspot & Tethering"
 4. Tap on "USB Tethering"
- Your PineTab 2 should now see a new network device, you can try to ping a server or open a website to see if the tablet can establish a connection.

Apple iOS:

- The developer and guide writer do not use an Apple device. However, you can learn more on how to set up USB tethering from Apple's support page: <https://support.apple.com/guide/iphone/share-your-internet-connection-iph45447ca6/ios>


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Documents / Resources

	GitHub PineTab 2 Built In WiFi Chip [pdf] Instruction Manual BES2600, PineTab 2, PineTab 2 Built In WiFi Chip, Built In WiFi Chip, WiFi Chip
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References

-  [GitHub - morrownr/USB-WiFi: USB WiFi Adapter Information for Linux](#)
-  [Share your internet connection from iPhone - Apple Support](#)
-  [GNU Free Documentation License v1.3 - GNU Project - Free Software Foundation](#)