

# Your libre router and you!

Dear Customer,

Thank you for purchasing one of the few freedom respecting routers on the market! This router runs the libreCMC GNU/Linux distro : a collection of *free software* that respects your freedom. With the software on this router being *free software*, you have the freedom to review what the software on the router is doing, make changes to the software, re-flash the router with your modified copy and share the changes that you make. By choosing this router, you the customer, will help pave the way for more freedom respecting hardware in the future.



## Setup for those who are not connecting to a VPN:

0) Plug an ethernet cable from your Cable Modem / DSL Modem / Fiber Optic Modem to the WAN port (labelled WAN).

1) Connect an ethernet cable from your PCs LAN port to the LAN port on the mini router (labelled LAN).

2) Connect the power cable to the mini router

(you will see green lights on the front if it successfully boots)

3) If connecting to the default wireless network rather than by ethernet cable use the following settings:

wireless network name: libreCMC

password: librecmc

4) To administer your router, go to : <https://192.168.10.1>

Note: If connecting this router to a TPE-R1400 router login and go to Network> Interface > LAN and click the Edit button and change the IPv4 address to something other than 192.168.10.1, such as 192.168.11.1; then click the Save and Apply button. Also you may encounter a warning such as "Warning: Potential Security Risk Ahead" or "Your connection is not private". Despite the scary sounding warning this is the result of a self-signed certificate and your connection is slightly more secure than it would be otherwise. Click the Advanced button and then "Proceed to 192.168.10.1 (unsafe)" or "Accept the Risk and Continue" depending on your browser.

### Enabling & setting a password for your Wireless Network (highly recommended)

1. To change wifi password, enter <https://192.168.10.1> into a web browser of a computer attached to the network, login.

2. Then go to : Network -> Wireless.

3. Click the "edit" button on the right side of "libreCMC".

4. Click the "Wireless Security" tab.

5. Enter a new password in the "Key" text box, then click the Save button.

6. Then click the Enable button next to the libreCMC SSID, then click the "Save & Apply" at the bottom of the page.

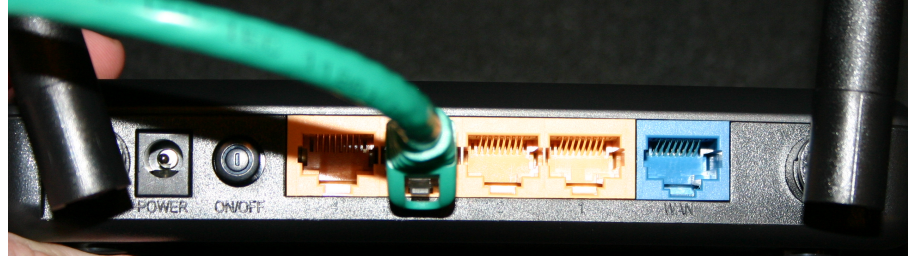
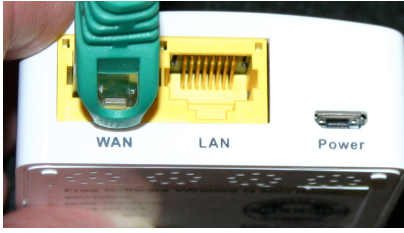
Browse the web and enjoy! If all of your machines use "DHCP" for their network, everything should just work. Please refer to your modem 's user guide or the libreCMC wiki for help.

### Product Information and Support

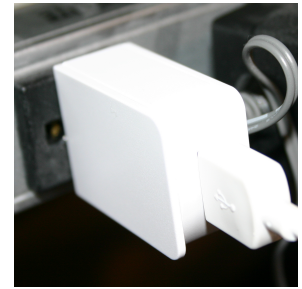
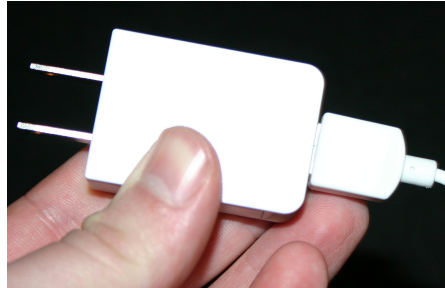
For additional documentation and support visit us on the web: [ThinkPenguin.com/support](http://ThinkPenguin.com/support)

# Setup instructions for those who purchased VPN service with the router:

1. Connect an Ethernet cable from the WAN port on the Mini Router (left) to a LAN port on your modem or primary router (right).

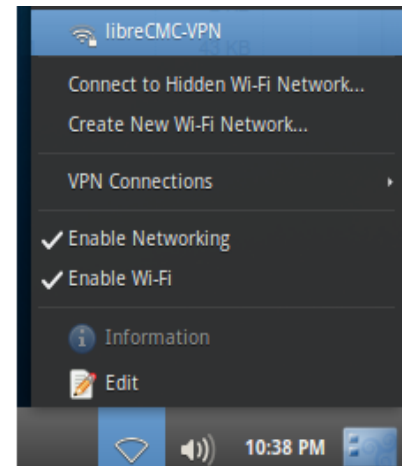


2. Connect the USB cord to the Mini Router where it says Power (left), connect the USB cord at the other end to the power adapter (center), and the power adapter to a wall outlet (right).



3. Connect your computer / wireless devices to the libreCMC-VPN network (default password: librecmc) whenever you want to surf pseudo-anonymously.

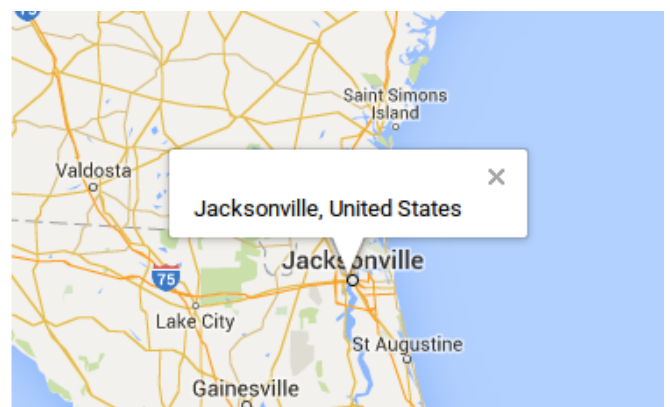
Things to note: A VPN connection may result in problems with some online web sites that depend on correct location data to operate. This is primarily true for stores, banks, and commercial video streaming sites. If you encounter a problem with a site you may find an account temporarily locked or an order cancelled. This is because traditional electronic payment systems don't have an effective means of stopping fraud making any payments via Visa/Master Card/PayPal/etc risky. As such merchants refuse business to anonymous individuals to reduce risk when users pay with these mechanisms. Fortunately there is a solution. Cryptocurrencies are quickly becoming the online equivalent of cash. Not controlled by governments, banks, or other entities they act as a safer lower cost solution to payment acceptance.



4. Open your web browser and check the IP address and location that your computer appears to be coming from. One such site you can utilize for this purpose is [www.infosniper.net](http://www.infosniper.net)

If your in New Hampshire and the site indicates your browsing from Jacksonville, Florida for instance then your connection is now pseudo-anonymous.

Please note that the level anonymity should be adequate for the majority, but may not be sufficient to protect against more sophisticated adversaries targeting groups such as journalists, whistleblowers, dissidents, etc.



*Note: We have changed the default Mini Router IP to maximize out-of-the-box compatibility: 192.168.3.1 To change the Mini Router's SSID password open your browser, login to <https://192.168.3.1> (default password 'none'), Network -> Wireless, click edit next to libreCMC-VPN, click Wireless Security, enter a new password in the Key box, and click Save & Apply.*

We have lots of additional documentation online at:

[ThinkPenguin.com/support](http://ThinkPenguin.com/support)

**A short list of some of this documentation includes:**

Configuring the router for use with third party VPN providers

Configuring the router for use with our USB 4G modems

Expanding your storage with a USB flash drive

Setting up a firewall to limit access to a particular set of domains

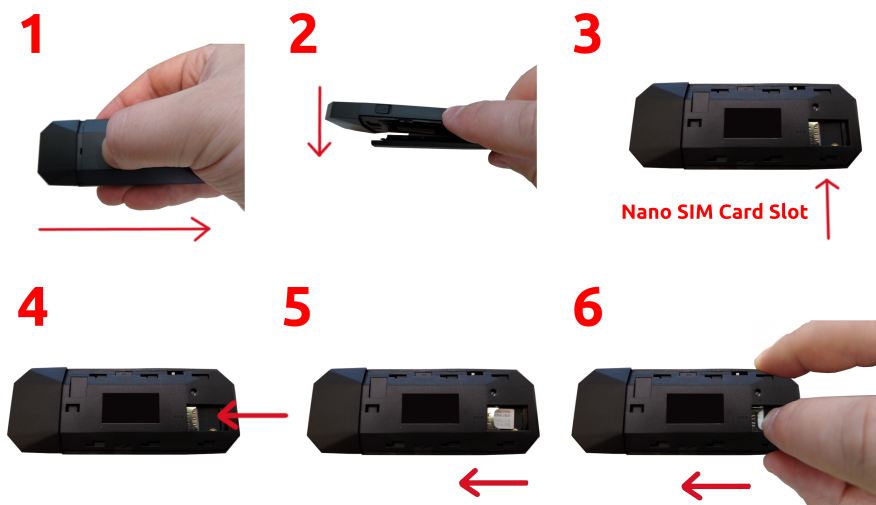
Setting up a mesh network (TPE-R1300 wireless model only)

Configuring the router to tunnel traffic through a Wireguard VPN tunnel where the WAN is another wireless AP (TPE-R1300 wireless model only)

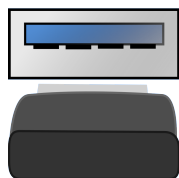
## 4G Modem + Router Setup Directions

If you have purchased a TPE-R1300 or TPE-R1400 router with a 4G modem router configuration alongside a TPE-USB4G2US USB 4G modem then these directions are for you. This combination of hardware has been explicitly tested and configured to work together. This has been vetted with an AT&T SIM card, but as you may not have purchased or be planning to use an AT&T SIM card with the router you may need to set the APN on the router. Directions are below.

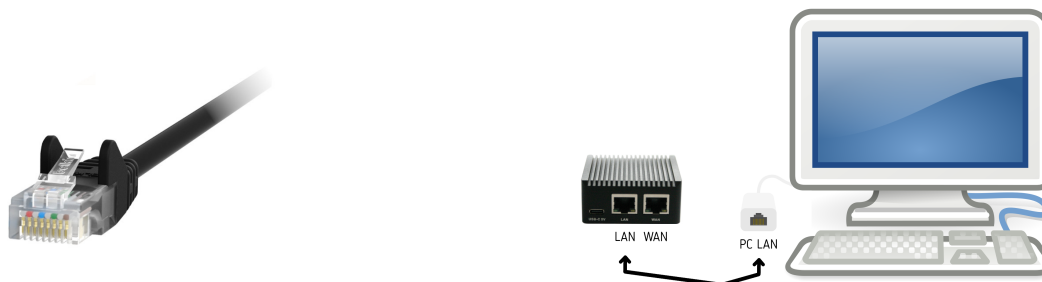
1. First you will need to install a SIM card in the USB 4G modem as shown below:



2. Then you will need to connect the USB 4G modem to the USB A port on the router like so:



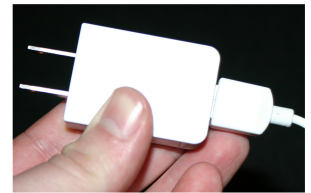
3. You can then connect a computer directly to the LAN port via the included ethernet cable (shown to the lower left). The other end can be connected to a PC or a gigabit switch (upon which you can connect other computers and devices).



4. Depending on the router purchased a USB-A to micro USB or USB-A to USB-C cable is included to power the router alongside a USB-A power adapter. The power adapter connects to a wall socket or power strip and the USB-A end of the USB power cable connects to the power adapter. The other end connects to the USB-C 5V port or the micro USB 'Power' port depending on the router.

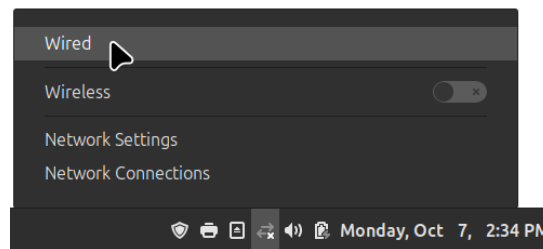


USB-A



Power Adapter

5. Once the power is connected give the router a minute or so to boot up. Then go to your computer's network applet and connect to the router as shown below:

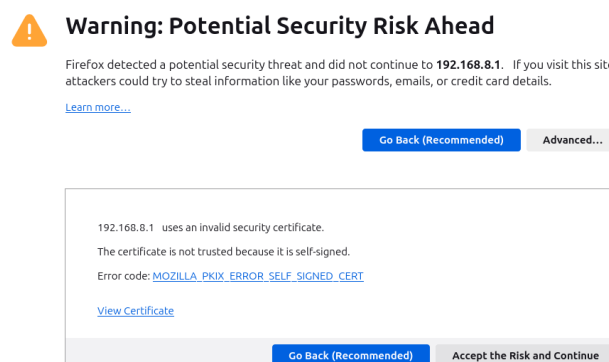


6. If you have not activated the SIM card locate the directions provided by the cellular provider and do so now.

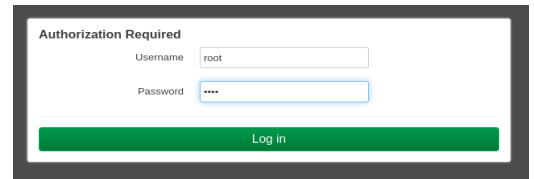
7. Lastly you'll probably need to set the APN for the cellular provider. To do so open a web browser on your PC and log in to the router at <https://192.168.8.1/> ... you will need to enter this into the address bar of the browser as shown below:



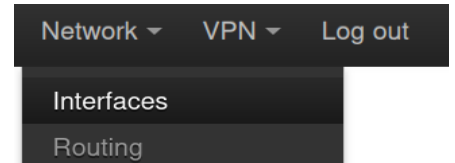
Note: You'll get a warning message like below, click Advanced.. and then the Accept the Risk and Continue button:



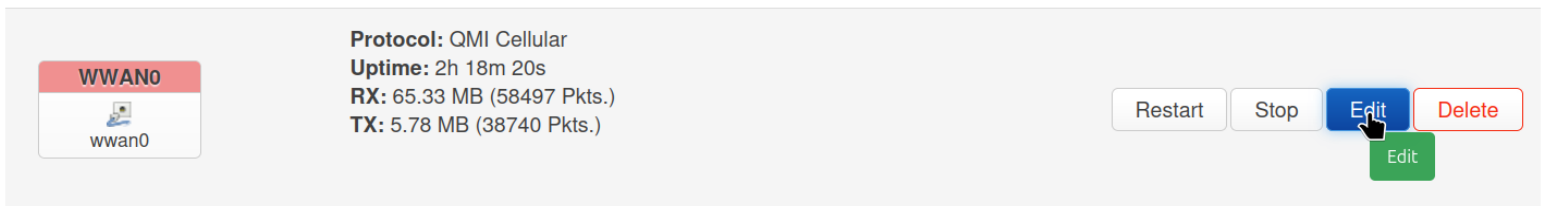
Log in with the password 'none' (without the quotes)



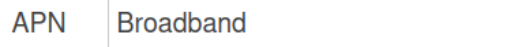
8. From the menu go to Network > Interfaces



9. Click the Edit button next to WWAN0.



10. Here you can change the APN and adjust any other settings required for the cellular provider. You may need to contact support or lookup your cellular provider's APN to connect. Most providers document this somewhere, but be aware some providers have more than one APN and not all APNs may work.



11. Click the Save button, then the Save & Apply button. Then reboot the router. You can do that from the menu by going to System > Reboot and then clicking the Perform reboot button.

If you have any questions please feel free to contact support with a description of the product(s) you purchased and are using together along with a description of the problem you are encountering. Preferably include an order #.

You can email support at: [support@thinkpenguin.com](mailto:support@thinkpenguin.com)

Advanced users: It's also advisable to change the default password after logging in to the router. You can do that via the web user interface on the router. To do this open a web browser and go to <https://192.168.8.1> . Then you will find the option to change the log in password under System > Administration. It's recommended that you make a note of the new password. If the router is in a secure location it's common for people to place a note on the bottom of the router itself for future reference.