

PintSize Me LLC - Generator USB Kits

If you have a question or aren't sure, stop and contact us before continuing. Pictures are welcome since without pictures we can't see what you see. You can contact us by replying to your order or shipping confirmation emails, through the form on our site, or Facebook Messenger. We frequently respond within an hour during the day; however, please allow up to 4 business hours for us to reply. Depending on your question we may need time to do research, recreate the problem or setup, develop new instructions, or take photos of an example to answer your question. We also have no clue what level of knowledge an individual may have, so we may ask questions you think are dumb simply because we need to cover all the bases since everyone has different skill sets and knowledge bases.

Preparation:

- If you did not get a pre-loaded unit, follow the GenMon instructions on how to setup your micro-SD card and get all your installs done before proceeding to the physical installation steps.
- You can power up your Pi with a USB cable and configure your WiFi, time zone, and any other necessary details while inside your home. You can do it later, but it's recommended to start here.

Preloaded Units - Configure WiFi:

- Connect the USB Adapter, if it is not connected at boot, GenMon will not load up.
- OS Login: username: "genmonpi", password: "raspberry", machine name: "genmon". Change the password.
- Configuration Portal (ending in 5000) uses OS Logins, if you create a new login later that will also work for the Configuration Portal.
- GenMon Login: username: "genadmin", password "raspberry". Change the password in GenMon on the settings page.
- Option 1 (image below):
 - Option 1A: If you have a Pi with an Ethernet port, you can plug into your network and boot the Pi, then you should be able to access the portal internally with <http://genmon:8000/>, <http://genmon.local:8000/> or if you have the IP address <http://{ip}:8000/> and you would not need to use the hotspot.
 - Option 1B: If you have the micro-HAT installed, boot up the Pi, then press and hold the button on the HAT. It should immediately turn red, then after approximately 5 seconds it will turn white, this indicates the hotspot is activating.
 - Please note, the fan pins on the micro-HAT v0.12 have the labels reversed. This only matters if you connect a fan.
 - Connect your phone or computer to the "config" hotspot with a password of "genmon00" (that is 2 zeros). Many devices do not like hotspots without internet access and will automatically switch back to your internet connected WiFi, but typically if you connect 2 or 3 times in a row it will get the hint and stay connected.

- Once connected to the config hotspot, open your browser and go to <http://10.42.0.1:5000/>. It can sometimes take a minute or two for your device to cooperate with loading that page correctly since there is no internet connection.
- After you are done and get it installed, this portal will still be available at the same address as genmon, just with :5000 instead of genmon's :8000.
- Configure:
 - When the portal loads:
 - Enter the username and password into the top 2 boxes on the page, default of genmonpi and raspberry, this is used to authenticate the other functions.
 - If your timezone is not correct, select your timezone and click Save Timezone – you will get a confirmation.
 - We recommend changing your password next to something you will remember, be sure you will remember it as we cannot recover it for you later and you would have to start over on the image. We can supply the current pre-loaded image for you to re-burn your micro-SD card if necessary. After changing your password you will get a response, and then you need to update the “Current Password” field at the top of the page.
 - Update and viewing logs are for updating the portal and viewing the portal's logs.
 - Select your WiFi from the dropdown and enter your WiFi password/key, and then click Save WiFi. This will shut off the hotspot and connect the Pi to your WiFi. If your device does not appear on your network within 5 minutes you may need to try again.
 - The UPDATE function in the portal only updates the portal, it does not update the OS or GenMon. While new feature may be added over time, it is not important to keep this up to date unless you are needing one of those new features.
 - The VIEW LOGS is just for the portal's logs, it does not show other system or genmon logs.
 - You can adjust the on temp of the FAN for Pi 3 & Pi 4 –Pi 5's onboard fan has its own inaccessible configuration.

User name and password to use for all actions

User Name:

Current Password:

Select Time Zone:

Save Timezone

Current SSID: <none>

Select WiFi:

WiFi Password:

Save WiFi

Note: the fan setting only works with HATs and Pi 3/4.
Pi 5 has its own built in fan management.

Fan PIN:

Fan Temp:

Set Fan Configuration

Machine Name:

Save Machine Name

New Password:

Confirm New:

Change Password

Current Version: 1.0.11

Available Version: 1.0.11

Update

View Logs

Reboot

- Option 2 – Configure via Keyboard, Mouse, and Monitor
 - Connect a display, keyboard, and mouse, use the OS UI to set your time zone, change your system password, and if you are not planning on using Ethernet to configure the WiFi.
- You should now be able to access GenMon at <http://genmon:8000/>, <http://genmon.local:8000/> or if you have the IP address <http://{ip}:8000/>.

Physical Installation:

- If the generator's status light is RED stop and resolve that issue before continuing.
- Put the generator's mode switch to the MANUAL position to ensure it starts and let it run for 1 minute.
- Put the generator's mode switch to the OFF position and note any messages on the screen to compare with later. If there appears to be any errors present, stop and resolve those before continuing.
- You should have your CAT5/6 cable run directly from the generator to the point you want to install prior to continuing.
- RJ45 Kits:
 - Install the RJ45 Injector (image below for help with the injector layout):
 - **!!!FAILURE TO FOLLOW THESE INSTRUCTIONS CORRECTLY MAY RESULT IN DAMAGE TO YOUR GENERATOR AND GENMON EQUIPMENT!!!**
 - Connect the short Molex cable to the GENERATOR plug on the Injector, this is the plug that is by itself.
 - Connect your CAT5/6 Cable to the RJ45 port.
 - If you have and want it connected, connect MobileLink to the MobileLink plug on the injector. If you have it, then you will be unplugging it from the generator.
 - **NOTE: Only RS-485 MobileLink devices can be used at the same time as GenMon.**
 - At the other end, plug the USB cable into the Pi and the USB RJ45 Adapter.
 - Plug the CAT5/6 cable into the USB RJ45 Adapter
 - Power up the Pi
- RS-485 Kits:
 - Connect your Ground, A, and B conductors to the USB Adapter's screw terminals.
 - Plug the RS-485 adapter into the Pi
 - Connect the 3 conductors to the Ground, A, and B on the generator. A to A, B to B. If that doesn't work, try A to be and B to A. While the A/B labeling is common, the meaning is not. It does not do damage if they are backwards, it just won't communicate.
 - Power up the Pi
- Check GenMon to see if it is communicating with the generator. Change configuration as necessary to have the right config settings.
- Check the screen on the generator to make sure it is not displaying any problems.
- If everything is good so far, set the mode switch to the AUTO position for normal operation.

- Close up the generator.
- Your install is now complete. You may continue and do any custom configurations you desire to have on the system.