# SenseCAP M1 Local Console Guide
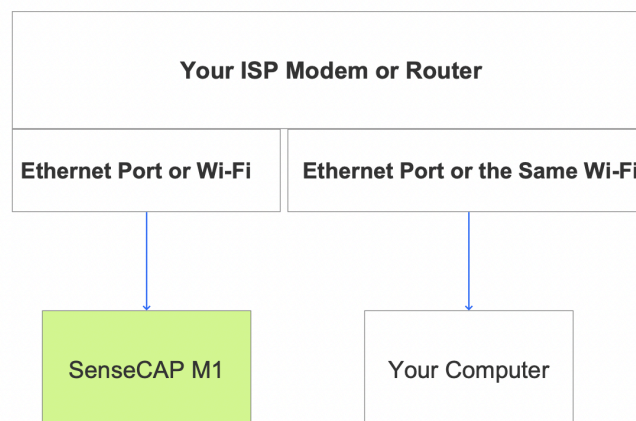
Latest features updates on Jan13, 2022:

To enhance the security level of SenseCAP Local Console, an extra password is added to log in to the Local Console besides CPUID, the default password is the Serial Number of the hotspot. It is highly recommended to change the password after the first login.

SenseCAP M1 Local Console is a tool for SenseCAP hotspot users to manage hotspots easier. In this article, we will guide you on how to use the SenseCAP M1 Local Console.

## How to log in to Local Console?

**Note:**

Your computer and your hotspot should be connected to the same router and you are not supposed to log in remotely if you don't have access to the local network.



**Steps:**

1. **Register an account on SenseCAP Dashboard (https://status.sensecapmx.cloud)**
2. **Add your hotspot to the Dashboard**
3. **Get your hotspot CPU ID from the dashboard**

Wi-Fi Name:

Wi-Fi IP Address: 0.0.0.0

Click the icon on the right of the CPU
LAN IP Address: 192.168.0.169
ID to copy

Firmware Version: 2021.10.07.0

CPU ID: 1000⬛⬛⬛a1c3

4. **Click the Wi-Fi IP Address or LAN IP Address link which directs to the Local Console page.**



Wi-Fi Name: Click the Wi-Fi IP Address or

Wi-Fi IP Address: LAN IP Address 0.0.0.0

LAN IP Address: 192.168.0.169

5. **Use the hotspot CPU ID and the default password (Serial Number) to log in.**



## SenseCAP M1 Local Console

CPU ID: 1000⬛⬛⬛⬛⬛

Password: •⬛⬛⬛⬛⬛⬛ 👁

Login

**The Local Console Interface**

## SenseCAP M1 Local Console

Flat ▭ Cougar

Your device token: 7a1f78 ▭ c112f38f685d82e725fec481bf804eb9ffea
This will be used when you're operating the miner with API.

[ Change Password ]

Security Reminder
Please don't forward the port 80 to the public internet on your router before you know the risk.

[ Reboot ]

Or using the API:
curl -X POST -H "Authorization: Basic <TOKEN>" http://192.168.177.241/reboot

[ Shutdown ]

Or using the API:
curl -X POST -H "Authorization: Basic <TOKEN>" http://192.168.177.241/shutdown

[ Reset Blocks ]

Or using the API:
curl -X POST -H "Authorization: Basic <TOKEN>" http://192.168.177.241/resetblocks

[ Turbo Sync ]

Or using the API:
curl -X POST -H "Authorization: Basic <TOKEN>" http://192.168.177.241/turbosync

---- log stream connected to the host ----

## 6. Change the default password

After the first login, please do click the "Change Password" button to modify your default password. The new password should contain 8~32 digits with at least two combinations of the numbers, letters and symbols. The password will be encrypted and be only stored in your SenseCAP M1 locally.

For security concerns, we do not provide a "Forget Password" function yet, so please do remember your password well, and you will need to reflash the MicroSD card to resume the default password if you lost it.

For the CLI users, please note that everytime the password has been changed, the Local Console device token will be automatically updated as well. Reflash the Local Console webpage and you will see the new device token. Please keep your device token safe and do not share it to any third party in any circumstance.

## SenseCAP M1 Local Console

Your device token: e9c017
This will be used when you're operating the miner with API.

Change Password

Security Reminder
Please don't forward the port 80 to the public internet on your router before you know the risk.

Reboot

## Change Password                                          ✕

Current Password:  [ •                                ⊙ ]

New Password:  [ •                                ⊙ ]
8~32 digits (two of numbers, letters, symbols)

Confirm Password:  [ •                                ⊙ ]
Two inputs don't match!

Cancel          Confirm

## Change Password ✕

Current Password: _____

New Password: _____

Confirm Password: _____

Cancel   Confirm

password is changed! please reflash the page to update your device token

# How to Turbo Sync

**Note:**

Turbo Sync may lead to frequent erasing and writing in the micro SD card and it is only suggested to do when it is necessary.

If the synced block height of your device is very close to the blockchain(less than 200 blocks), Turbo Sync is not necessary for your device and you could not enable it.

The Turbo Sync process might take a while, which depends a lot on the network speed. Please maintain the internet connection and be patient with the syncing process.

**Important:**

Please **do not power off the device** during the Turbo Sync process, otherwise, your miner will have a corrupted ledger in the next boot, and will start syncing again from the last blessed snapshot. In that case, you have to redo the Turbo Sync process.

**Steps:**
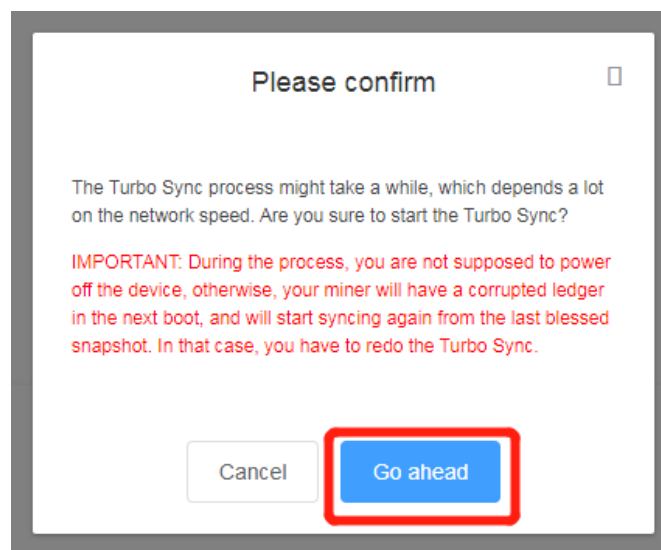
1. **Click the Turbo Sync button to start the process**

Turbo Sync

Or using the API:
curl -X POST -H "Authorization: Basic <TOKEN>" http://192.168.177.38/turbosync

---- log stream connected to the host ----

## 2. Read the note and click "Go ahead"



Please confirm

The Turbo Sync process might take a while, which depends a lot on the network speed. Are you sure to start the Turbo Sync?

IMPORTANT: During the process, you are not supposed to power off the device, otherwise, your miner will have a corrupted ledger in the next boot, and will start syncing again from the last blessed snapshot. In that case, you have to redo the Turbo Sync.

Cancel     Go ahead

## 3. Check the log window which shows the loading latest blocks progress

```
Turbo Sync

Or using the API:
curl -X POST -H "Authorization: Basic <TOKEN>" http://192.168.31.144/turbosync

---- log stream connected to the host ----
[turbosync] request sent ...
the block height of your device is 1
start to download snapshot 1033064        Latest snapshot with block number
start to monitor logs
start to monitor status
downloading 100.0%
download completed, used: 23s
check md5 ok
trying to load snapshot, this step may take more than 10 minutes
start to do Turbo Sync
start to do Turbo Sync
start to do Turbo Sync
start to do Turbo Sync
loading snapshot
2021-09-30 10:45:50.722 3055 [info] <0.1552.0>@blockchain_worker:handle_call:406 installing snapshot
<<134,67,95,52,158,225,44,48,30,183,111,88,162,212,205,117,118,104,240,231,149,171,23,88,175,241,193,120,187,135,81,244>>
loading snapshot
loading snapshot
loading snapshot
loading snapshot
loading snapshot        This will take a long time
loading snapshot
2021-09-30 10:46:48.784 3055 [info] <0.1552.0>@blockchain_ledger_snapshot_v1:load_blocks:618 ledger height is 1033064 before absorbing snapshot
2021-09-30 10:46:48.784 3055 [info] <0.1552.0>@blockchain_ledger_snapshot_v1:load_blocks:619 snapshot contains 73 blocks
loading snapshot
2021-09-30 10:46:57.656 3055 [info] <0.1552.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033042
2021-09-30 10:46:58.028 3055 [info] <0.1552.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033043
2021-09-30 10:46:58.175 3055 [info] <0.1552.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033044
```

This process will take around 15-30 mins, mainly depending on the internet connection speed and blocks that need to be synced.

During the Turbo Sync process, your dashboard will show "Unknown" in the blockchain status, which is normal.

**Note:**

If you want to do the turbo sync after Reflashing the firmware into the SD card, please wait for the dashboard showing the latest block record(it will take around 15mins), then you can do the turbo sync. otherwise, the turbo sync will not succeed.

4. **Finally, you will find "Turbo Sync Completed!" shown in the logs**

When you find "Turbo Sync Completed!" in the log, it means you have successfully completed the process.

Turbo Sync

Or using the API:
curl -X POST -H "Authorization: Basic <TOKEN>" http://192.168.31.144/turbosync

```
2021-09-30 11:56:13.308 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033180
2021-09-30 11:56:13.445 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:663 loading block 1033180
2021-09-30 11:56:14.273 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033181
2021-09-30 11:56:14.490 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:663 loading block 1033181
2021-09-30 11:56:16.633 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033182
2021-09-30 11:56:17.896 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:663 loading block 1033182
2021-09-30 11:56:19.901 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033183
2021-09-30 11:56:21.454 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:663 loading block 1033183
2021-09-30 11:56:26.641 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033184
2021-09-30 11:56:26.777 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:663 loading block 1033184
2021-09-30 11:56:27.808 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033185
2021-09-30 11:56:27.917 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:663 loading block 1033185
2021-09-30 11:56:32.395 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033186
2021-09-30 11:56:33.909 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:663 loading block 1033186
2021-09-30 11:56:35.300 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033187
2021-09-30 11:56:35.723 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:663 loading block 1033187
2021-09-30 11:56:37.201 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033188
2021-09-30 11:56:37.412 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:663 loading block 1033188
2021-09-30 11:56:39.460 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033189
2021-09-30 11:56:39.621 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:663 loading block 1033189
2021-09-30 11:56:42.251 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033190
2021-09-30 11:56:46.709 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:663 loading block 1033190
2021-09-30 11:56:49.439 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033191
2021-09-30 11:56:49.676 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:663 loading block 1033191
2021-09-30 11:56:55.081 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:656 saving block 1033192
2021-09-30 11:56:55.366 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:load_blocks:663 loading block 1033192
2021-09-30 11:56:57.638 354 [info] <0.1705.0>@blockchain_ledger_snapshot_v1:import:497 ledger height is 1033192 after absorbing blocks
Turbo Sync Completed!
Note: The status in the dashboard may have delay, and it is normal to find temporary "unknown" sync status, please just check later.
finish loading snapshot
finish monitor status
```

5. **Check the Dashboard status 5 mins later, and you would see the block height is near synced or fully synced status.**



| Blockchain Synced: ⑦ | | Fully Synced |
|---|---|---|
| **Blockchain Height:** | 1049274 / 1049272 | 100% |
| 2021-10-11 17:24:58(UTC+8) | (+5) 1049274 / 1049272 | 100% |
| 2021-10-11 17:19:54(UTC+8) | (+6) 1049269 / 1049268 | 100% |
| 2021-10-11 17:14:53(UTC+8) | (+3) 1049263 / 1049262 | 100% |
| 2021-10-11 17:09:50(UTC+8) | (+6) 1049260 / 1049258 | 100% |

If your dashboard still shows "unknown", please give it more time to update and check later.
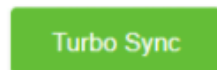
# How to Reboot

Click the orange Reboot button to start the reboot process.



**Note:**

Helium Blockchain ledger sometimes gets damaged by unexpected errors in the micro SD card, and the blockchain syncing process will be stuck somewhere and fail in syncing.

Rebooting the hotspot in the Local Console may help to resolve the potential errors in the micro SD card.
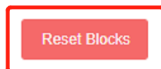
**Attentions:**

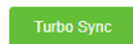Please do not reboot the hotspot frequently and only do it when necessary.

# How to Reset Blocks

When the block height got stuck and does not grow, or even the block height stays at -1 or 1, please do a block reset, wait for 30mins and then do turbo sync. The hotspot will be synced.

Click the Red Reset Blocks button to start the reset blocks process.

Reset Blocks

Or using the API:
curl -X POST -H "Authorization: Basic <TOKEN>" http://192.168.177.38/resetblocks

Turbo Sync

Or using the API:
curl -X POST -H "Authorization: Basic <TOKEN>" http://192.168.177.38/turbosync

```
---- log stream connected to the host ----
[resetblocks] request sent ...
tring to stop miner...
Stopping miner...
Stopping miner...
Stopping miner...
Resetting blocks...
Starting miner...
Reset Blocks Completed!
Note: SenseCAP M1 will start to load the latest blessed snapshot. The status in the dashboard may have delay, and it is normal to find temporary "unknown" sync status
Note: If you need to do Turbo Sync, please wait until the latest blessed snapshot is loaded (around 30 minutes)
```

**Note:**

SenseCAP M1 will start to load the latest blessed snapshot. The status in the dashboard may have delay, and it is normal to find temporary "unknown" sync status


If you need to do Turbo Sync, please wait until the latest blessed snapshot is loaded (around 30 minutes)
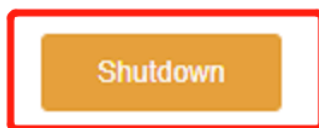
# How to Shutdown

**What is the Shutdown feature?**

The shutdown is suggested to use before unplugging the device in order to prevent the device from damage caused by a sudden power off.

**Step:**

Click the Shutdown button and confirm. The shutdown will take a few minutes, you will find the blue led and the Ethernet port LEDs are off when the shutdown is finished.

**Attention:**

Please confirm you are next to the SenseCAP M1 when you shut down since you will need to re-plug the adapter if you want to power up the device again.

Shutdown

Or using the API:
`curl -X POST -H "Authorization: Basic <TOKEN>" http://192.168.177.38/shutdown`

Please confirm ✕

Shutdown the SenseCAP M1 will take a few minutes, you will find the blue led and the Ethernet port leds are off when the shutdown is finished.

Please confirm you are next to the SenseCAP M1, you can power it on again by re-pluging the USB Type C adapter. Are you sure to Shutdown?

Cancel     Go ahead