# NemosMiner relies on the 3rd party tool HWiNFO64 to gather power usage information

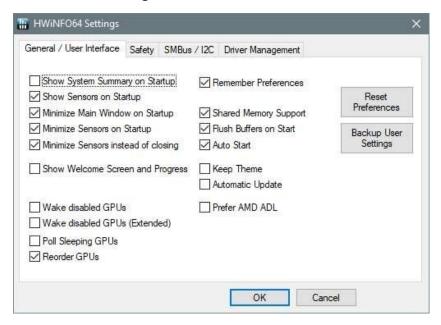
The following document describes the necessary integration steps.

#### 1. Download and install HWiNFO64

https://www.hwinfo.com/download/

Both variants (Installer & Portable) will do, just ensure you are using the x64 version. Accept the default installation directory (any other directory will be fine too).

### 2. Run HWiNFO64 and configure like this



This will autostart HWiNFO64 on each boot and will keep it running in the task bar.

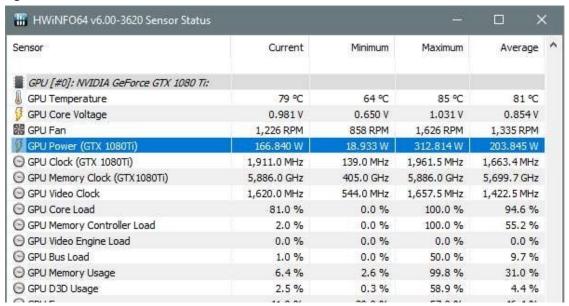
Important: HWiNFO64 needs to be left running while NemosMiner is running, otherwise the power usage readout will fail.

#### 3. Configure the hardware sensors

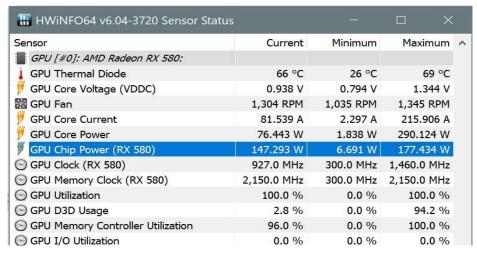


#### 3.1 Identify the power usage relevant sensors

E.g. for a Nvidia GTX 1080ti

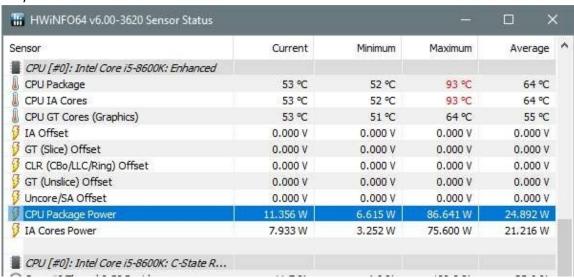


#### or for a AMD RX 580:



Important: for AMD make sure you select 'GPU Chip Power' and NOT 'GPU Core Power'!

#### for your CPU:

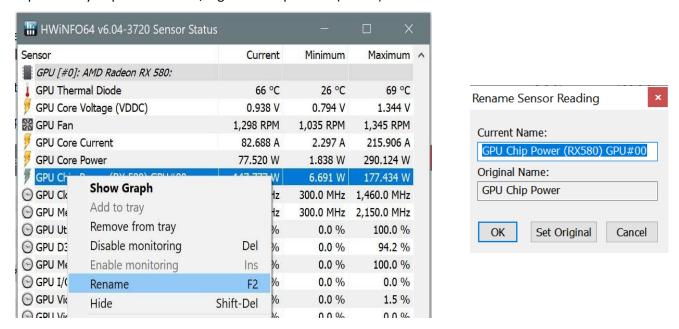


#### 3.2. Rename the power sensor

**Important:** Steps 3.2 and 3.3 must to be done for each enabled mining device.

Select the sensor, then right-click and select 'Rename F2':

Then rename the sensor name so it ends with the device name (as found in the web GUI), separated by a space character, e.g. 'GPU Chip Power (RX580) GPU#00'



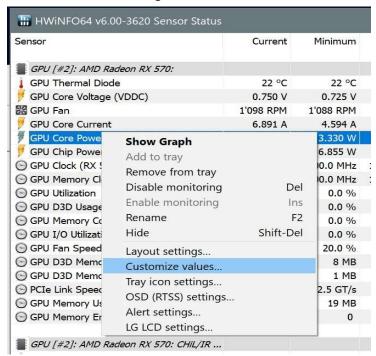
Note: You can also add other information, e.g. (RX580) to the sensor name. However it is essential that the sensor name ends in GPU#nn / CPU#nn as shown above.

**Important:** Only ONE sensor name per device can contain the device name. This is the sensor NemosMiner will use to read the power usage from.

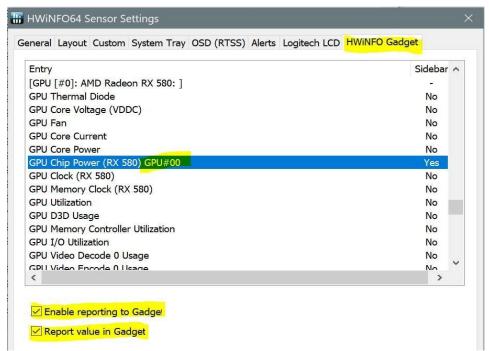
#### 3.3. Configure each relevant power usage sensor

**Important:** Steps 3.2 and 3.3 must to be done for each enabled mining device.

Select the sensor, then right-click and select 'Customize values...':



then select the tab 'HWiNFO Gadget':



### and tick both checkboxes:

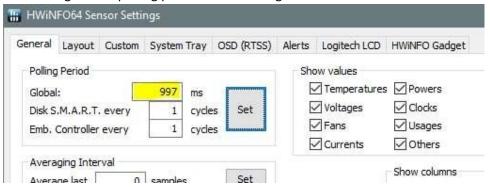
- Enable reporting to Gadget
- Report value in Gadget

### 4. Configure the sensor polling interval

In the sensors dialog click on

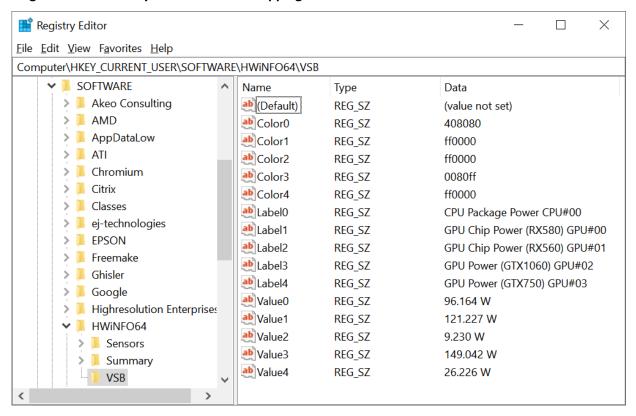


Then configure the polling period to something small like 997ms



**Important:** The polling period should be less than 2 seconds to ensure that MPM will have access to current data

### 5. Run Regedit.exe and verify that the sensor mapping information is available



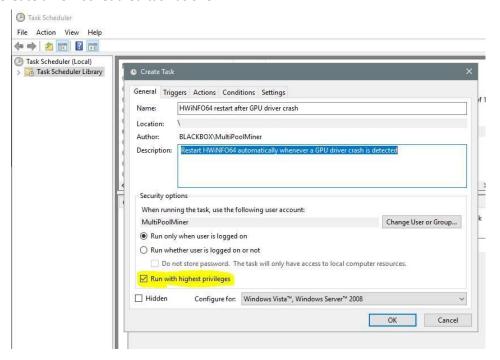
(press F5 repeatedly to verify that the values will get updated periodically)

## 6. Create scheduled task to restart HWiNFO64 after a driver crash (optional)

Under some circumstances HWiNFO64 needs to be restarted after a GPU driver crash. The following scheduled task takes care of this.

# 6.1. Open the scheduled task editor: CMD -> Schtasks.exe

#### 6.2. Create a new scheduled task as shown



## Make sure you tick 'Run with highest privileges'

