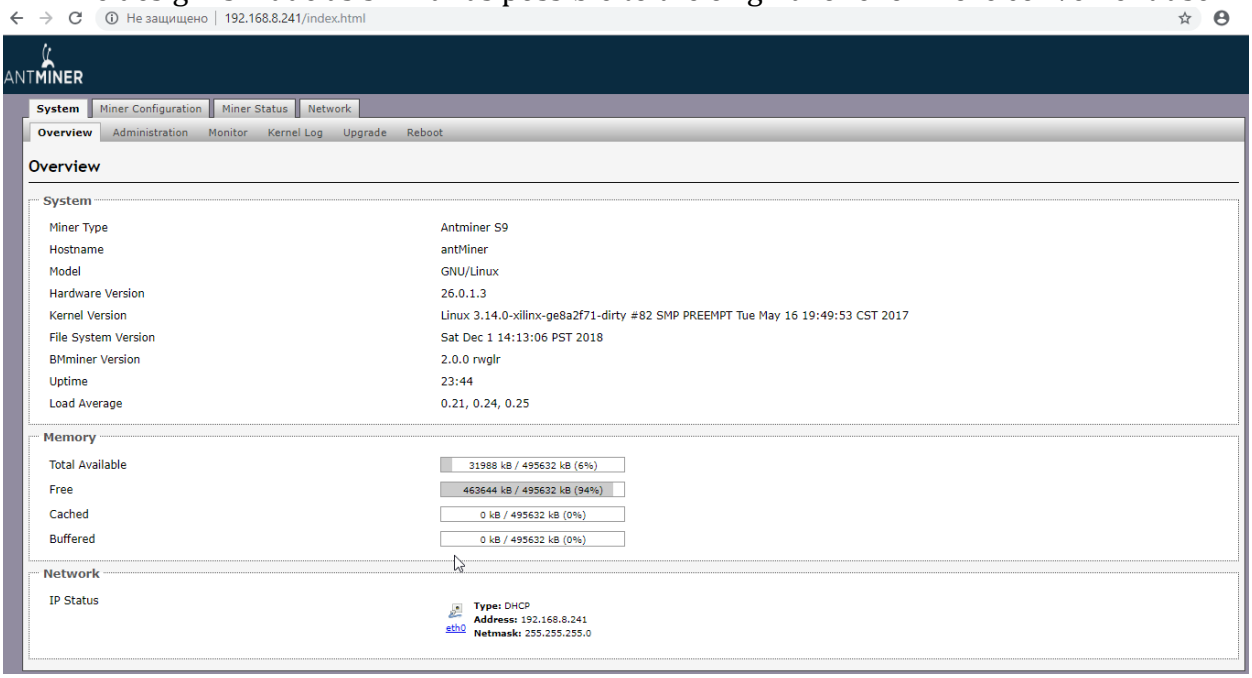
AsicFW.io

AntMiner s9 / s9i / s9j

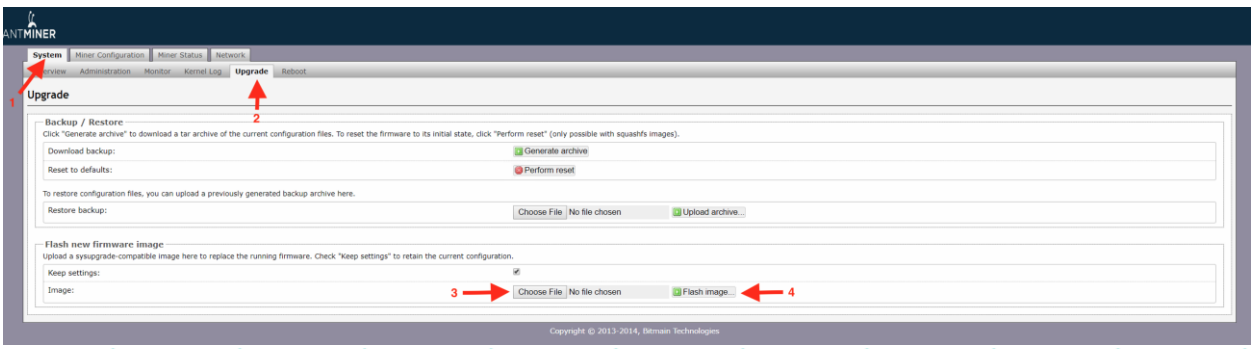
The firmware from asicfw.io is available for download free of charge, but it has a Dev Fee of 1.3% -2% (mining is not interrupted, the dev fee works parallel to the main mining). The firmware from asicfw.io makes it possible (with the same consumption as standard firmware from Bitmain) to get more computing power and extend the life of AntMiner 5 times due to the tuning of each chip separately.

AntMiner s9 / s9i / s9j firmware from asicfw.io fits all models. The first custom firmware with AsicBoost S9 saves up to 250W on pools that support AsicBoost technology (slushpool, antpool, btc.com, f2pool and others).

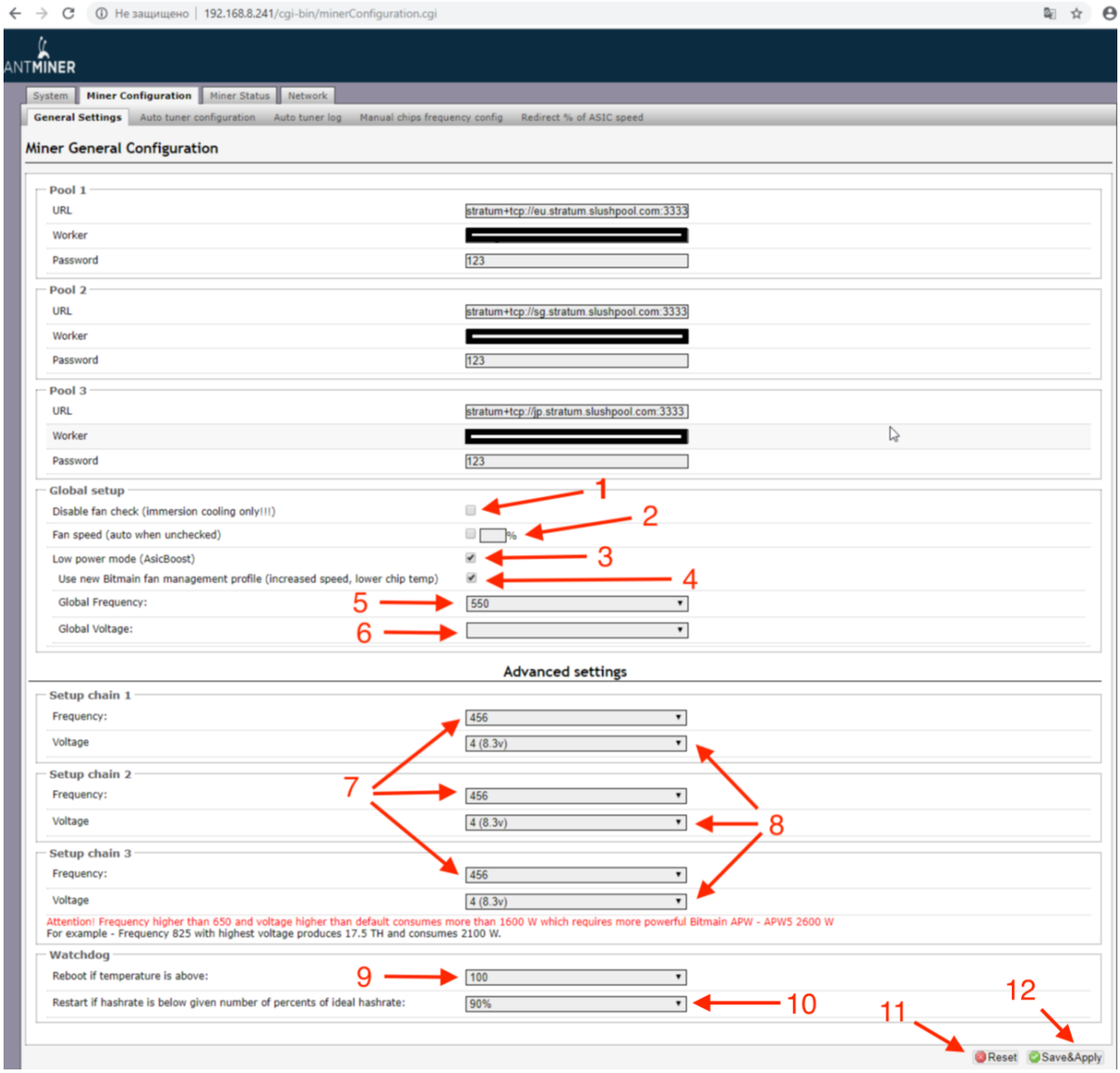
The design is made as similar as possible to the original one for more convenient use.



The firmware is installed in a standard way.



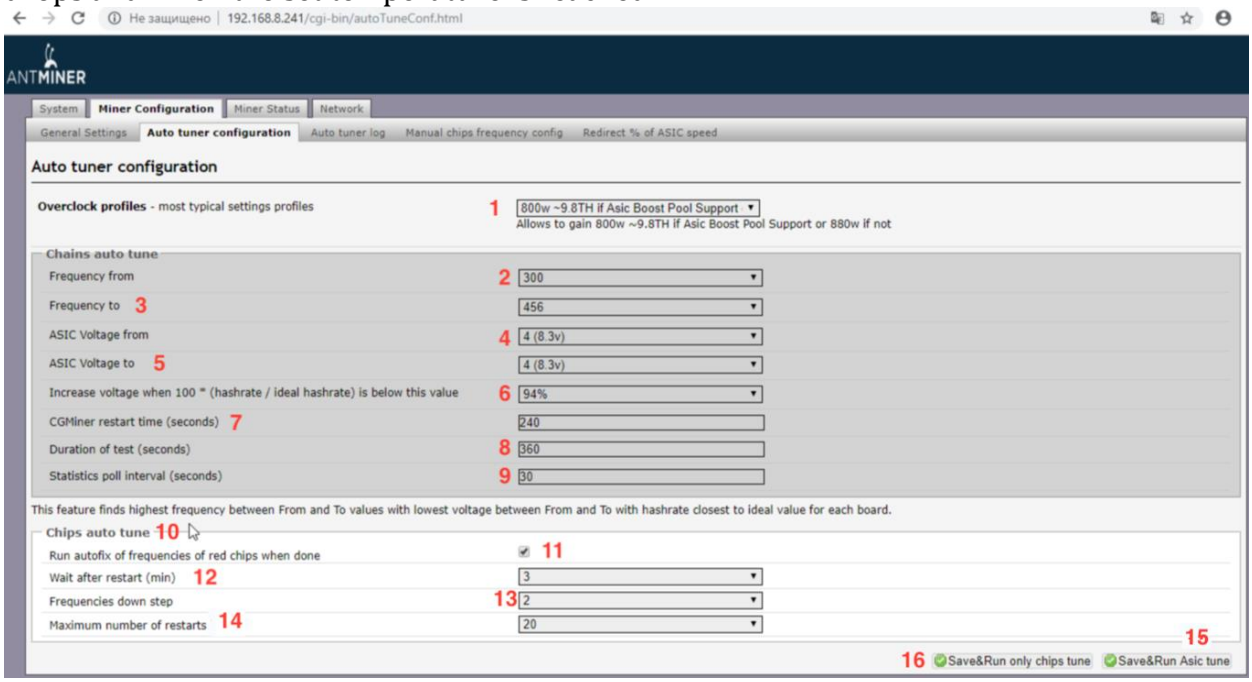
The firmware AsicFW.io for S9 / S9i / S9j with control of each hashboard's frequency, voltage and overclocking templates up to 18 + TH in the air and 19-22TH in immersion cooling. (Be careful, the overclocking requires a more powerful power supply. You can use 2 standard power supplies or 3 standard power supplies (1600W) for 2 Antminers **– You must not connect one hashboard to two different power supplies!**



1. Fan check disable for immersion into the immersion cooling.
2. Manual change of the fan speed in % or auto.
3. Enable or disable the AsicBoost feature.
4. Enable or disable low-noise fan auto mode.

5. Change the frequency of all hashboards.
6. Change the Voltage of all hashboards.
7. Change the frequency of each hashboard individually.
8. Change the Voltage of all hashboards.
9. Watchdog - reboot when reaching the set temperature.
10. Watchdog - restart when the hashrate drops.
11. Reset.
12. Save and apply.

- The Watchdog function allows you to automatically configure a reboot when the hashrate drops and when the set temperature is reached.

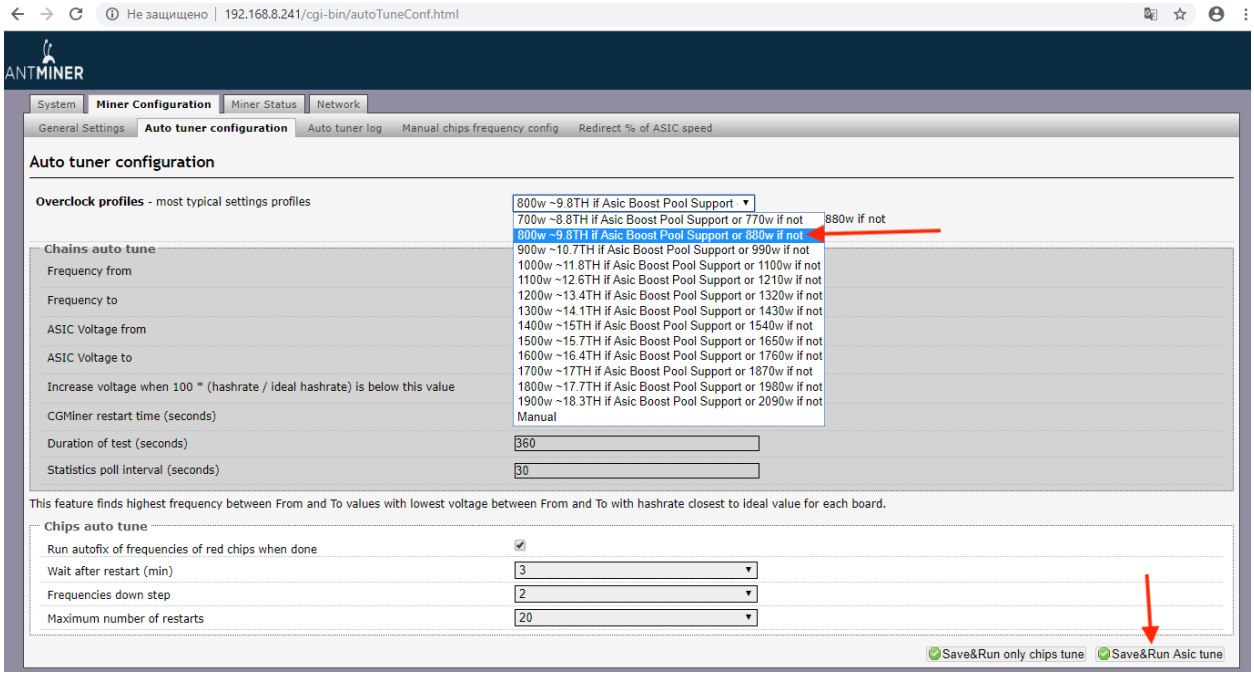


1. Auto tuner profiles depending on power consumption.
2. Available in Manual - minimum frequency value. At this value the Auto tuner finishes tuning.
3. Available in Manual - maximum frequency value. From this value the Auto tuner starts tuning.
4. Available in Manual - minimum Voltage for Auto Tuner.
5. Available in Manual - with this value the Auto tuner starts tuning the Voltage.
6. Available in Manual - setting in % the amount of chips on the hashboard that work perfectly when changing the Voltage settings.
7. Available in Manual - time in seconds for CGMiner restart while the Auto tuner is being set.
8. Available in Manual - Auto tuner check duration.
9. Available in Manual - statistics poll interval.
10. Chip tuning section.
11. Running Auto tune chips that are not working perfectly.
12. Time in minutes for restart.
13. Frequency step auto tune settings.
14. Maximum amount of restarting auto tune chips.
15. Save and run auto tune settings.
16. Save and run only auto tune chips.

Manual mode is not recommended to be used by ordinary users!

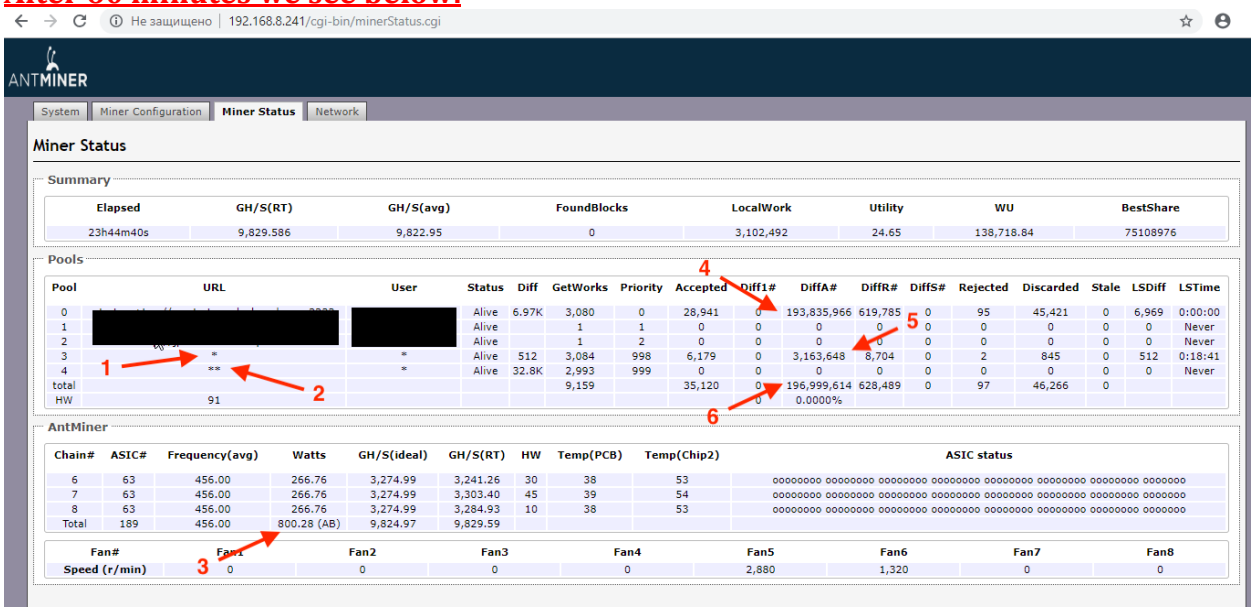
THE AUTO TUNE SETTING TAKES FROM 30 TO 60 MINUTES. IT IS NECESSARY TO WAIT UNTIL THE AUTO TUNE SETTING IS DONE!

- When the antminer is connected to pools for more than 6 minutes - the auto tune finishes setting, then you can make changes.



There are auto tuning profiles from 700W to 1900W here that allow to adjust the optimal power and frequency on each board in one click. And after that to adjust the optimal mode of each chip separately.

After 60 minutes we see below.



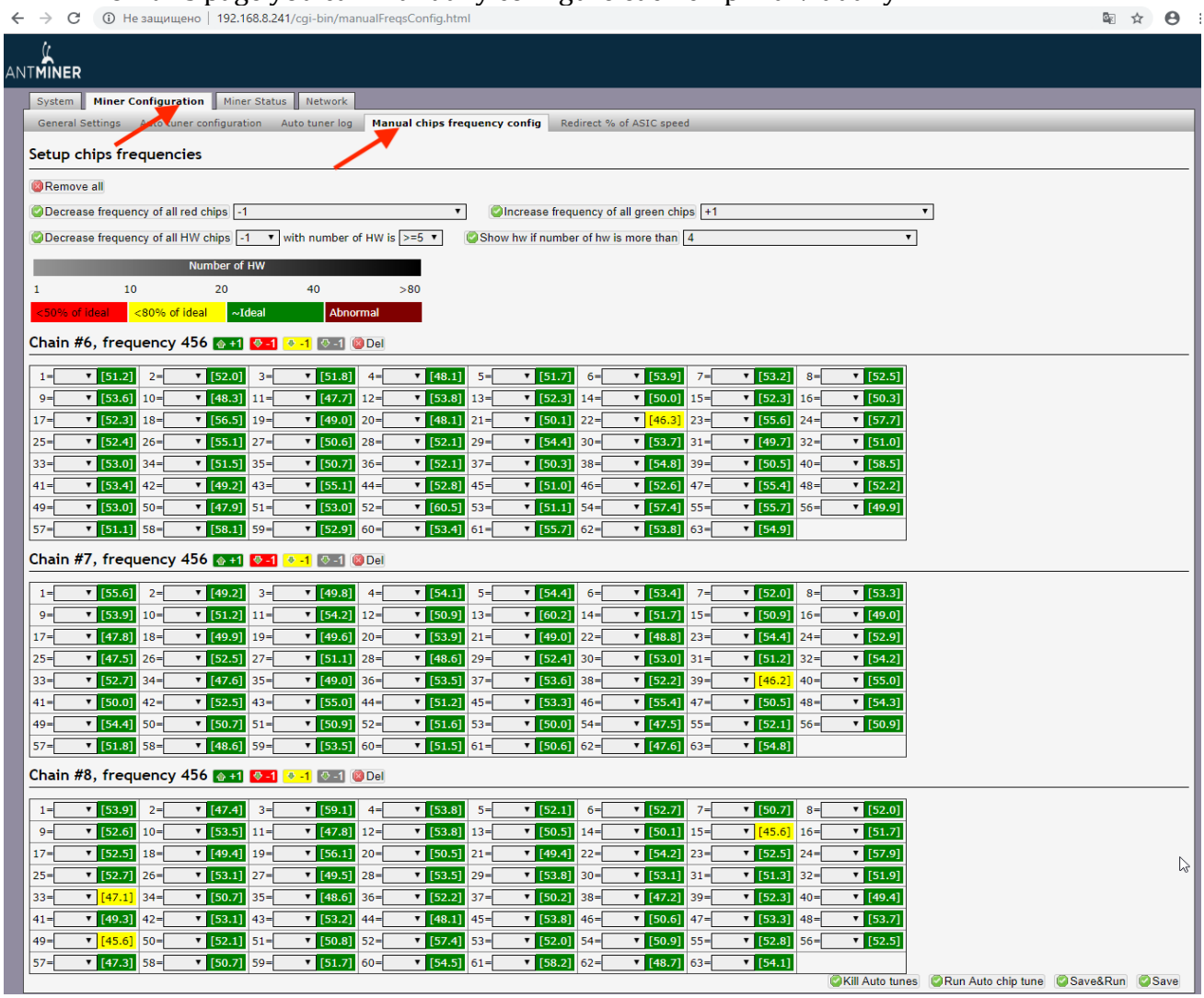
1. The Dev fee is from 1.3% to 2%.
2. Reserve address of dev fee if the primary one is not available.
3. Power usage indicators of each hashboard and the total one.
4. The number of DiffA# (work performed by a worker) user antminer.
5. The number of DiffA# (work performed by a worker) Dev fee.
6. The sum amount of DiffA# work done.

How to calculate % dev fee = (“5”/”6”)*100%=dev fee %

(3163648/196999614)*100%=1,6% dev fee

Setting of each chip individually allows you to reach the maximum power of Antminer and extend its service life, and sometimes it even makes it possible to bring a dead hashboard back to life.

On this page you can manually configure each chip individually.



COLOURING CHIPS:

- Red chip - means an unacceptable deviation from the ideal operational mode.
- Yellow chip - means tolerance from the ideal operational mode.
- Green chip - means an ideal operational mode.
- Gray and black chip - means that these chips give HW (errors).

***Decrease frequency of all red chips** – 1 frequency step down for all red chips.

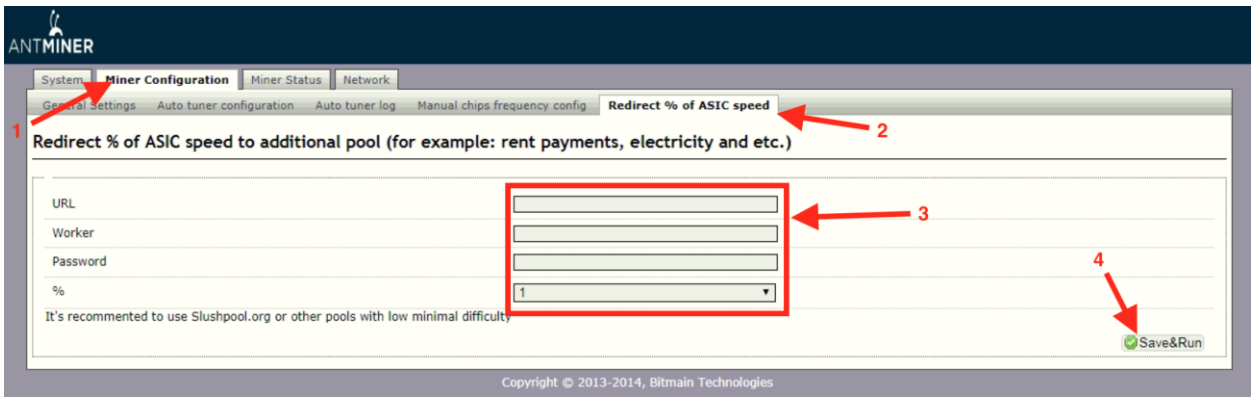
***Increase frequency of all green chips** - 1 frequency step up for all green chips.

***Decrease frequency of all HW chips** – 1 frequency step down for all chips that produce errors.
*** Show HW if number of HW is more than** - this value shows chips with the number of errors from 4 HW for 1 chip. The error gradation goes from light gray to black. The more errors the blacker the chip is.

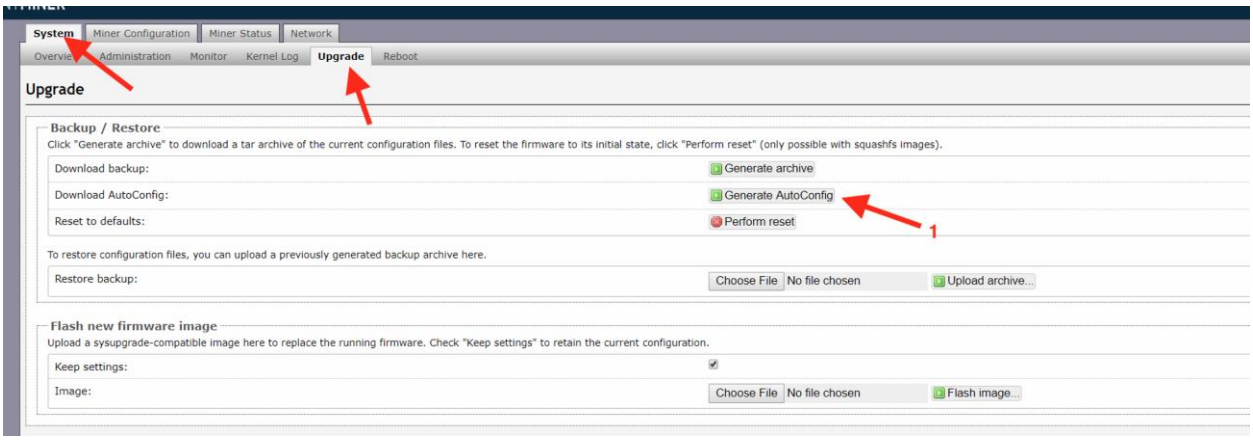
It also provides managing the hashboards separately.

- Green button - 1 frequency step up for all green chips on this hashboard,
- Red button - 1 frequency step down for all red chips on this hashboard,
- Yellow button - 1 frequency step down for all yellow chips on this hashboard,
- Gray button - step down for all chips on this board that have HW,
and also
- Button DEL – remove chip settings on this board.

The AsicFW.io firmware has an additional user's dev fee for a mining hotel and managers. It works the same way as the asicfw.io dev fee - parallel to the main mining.



The AsicFW.io firmware has file generation **(1)** with URL pool and auto tuner settings. This makes it possible to apply the settings massively to a large number of Antminers. The last 2 octets of the antminer IP address will be added to the worker.
(For example, worker: Alex ip 192.168.1.20 generates worker: Alex.1×20, etc.)



1. Configure the first Antminer as necessary - settings of pools and worker.
2. Run the selected Autotune W\Mhz mode
3. Without waiting for the Auto tuner setup **(1)** completion - save Patch AutoConfig - save the resulting Patch .tar file
4. In case you download this file as an update for AsicFW.io firmware to other Antminers, the config (pool, worker, auto tuner) will be applied to Antminer. Only .SUBNETxIP will be added to the worker to simplify the identification of Antminer on the pool.
5. You can do this procedure either manually or by using BTC Tools or Bitmain Toolkit for massively flashing of Antminers (upgrade firmware)- this really simplifies updating and tuning on large farms.