



Advanced Technologies
Solutions

PROFESSIONAL MINING
EQUIPMENT FOR DATA
CENTERS

Advanced Technologies Solutions

Aleksandr Tvaradze
atvaradze@atsol.rs

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Professional crypto mining solutions for datacenters

Our solutions have 2 components: equipment and software.

Solution provide possibility to mining main market. And it is more flexible solutions when hardware miners like as Antminer. Solution can provide mining for any cryptocurrency what can be effectively mined on GPU.

Universal crypto miners UMG и UMGI

Hardware core for our solutions are universal crypto miners UMG и UMGI. Different in models in GPU, what are used in crypto miners. Crypto mainer UMG based on Nvidia 1080 chipset and have 8 GB video memory. Crypto miner UMGI based on Nvidia 1080 Ti and 11 GB video memory. Each model of crypto miners have 8 graphics cards and rack-mount ready for в 19'' datacenter's racks.



Operation system for UMG/UMGI are possible like Linux/Windows – up to order. Power of crypto mining UMG more then UMG.

ETH Crypto currency-oriented crypto miners EMG

Crypto miner EMG oriented for ETH (Ethereum) crypto currency. It is based on Radeon 580 chipset and more recommended for ETH crypto currency mining. It possible use for mining another crypto currencies, but no so effective like as in model UMG/UMGI

Software



Solution included software for control different algorithms of crypto mining. On current momenf we are supported 11 types of crypto mining software: Cgminer, Bfgminer, Sgminer, Ccminer u few types of Claymore miners. Supported 26 popular algorithms, for example, SHA-256, Scrypt, X11, Ethereum and Zcash. Software can change algorithms using for mining in manual or automatic modes. If already have installed ASIC miners – software can monitor and control it with crypto miners UMG/UMGI/EMG together.

Coin	Blocks	Difficulty	Exchange Rate	Revenue / Profit
 Zcash (ZEC) Equihash	Blocks: 116 350 Block time: 2,5 min Block reward: 10,0	1 263 110,98	0,04967752 BTC \$92,28	Day: \$8,94 / \$5,77 Month: \$270,81 / \$174,82
 Ethereum (ETH) Ethereum	Blocks: 3 728 203 Block time: 15,9 s Block reward: 4,9	408 858 598 362 901,00	0,05010128 BTC \$93,06	Day: \$7,51 / \$5,78 Month: \$227,63 / \$175,27
 Ethereum Classic (ETC) Ethereum	Blocks: 3 748 559 Block time: 14,3 s Block reward: 4,9	29 269 754 544 085,00	0,00337001 BTC \$6,26	Day: \$7,06 / \$5,33 Month: \$213,88 / \$161,52
 Monero (XMR) CryptoNight	Blocks: 1 312 968 Block time: 2,0 min Block reward: 7,6	7 812 848 221,00	0,01610367 BTC \$29,91	Day: \$7,00 / \$5,27 Month: \$212,06 / \$159,70

Software provide full monitoring about harware’s status:

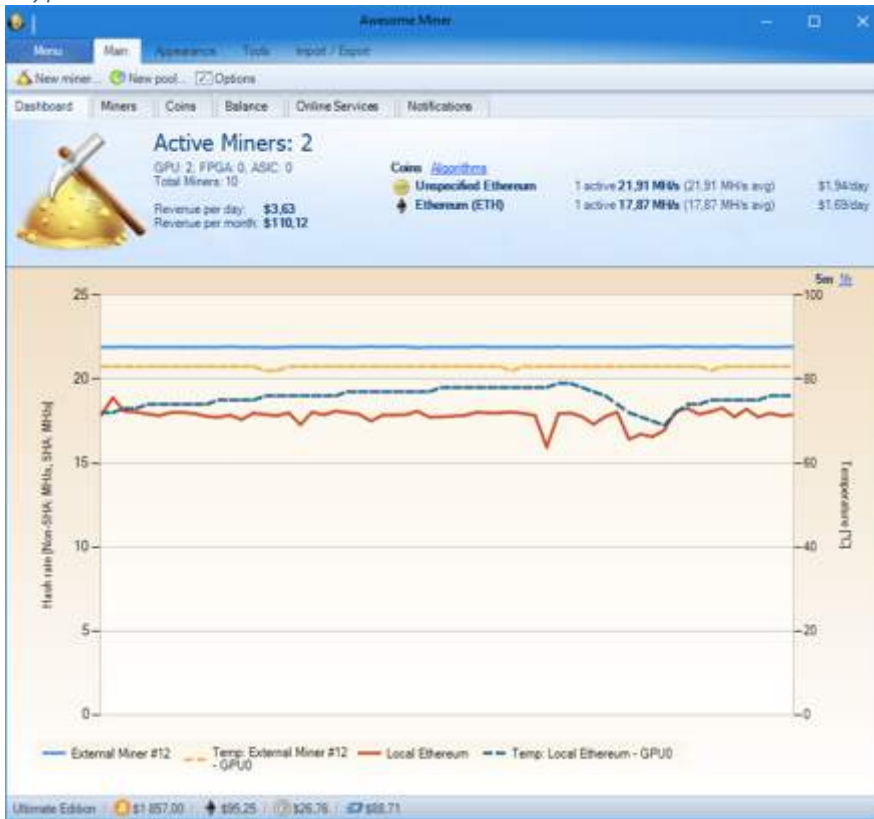
- Processors
- GPU Status
- Memory
- SDD

Software system can support overclocking, but you can understand what is out of warranty for equipment.

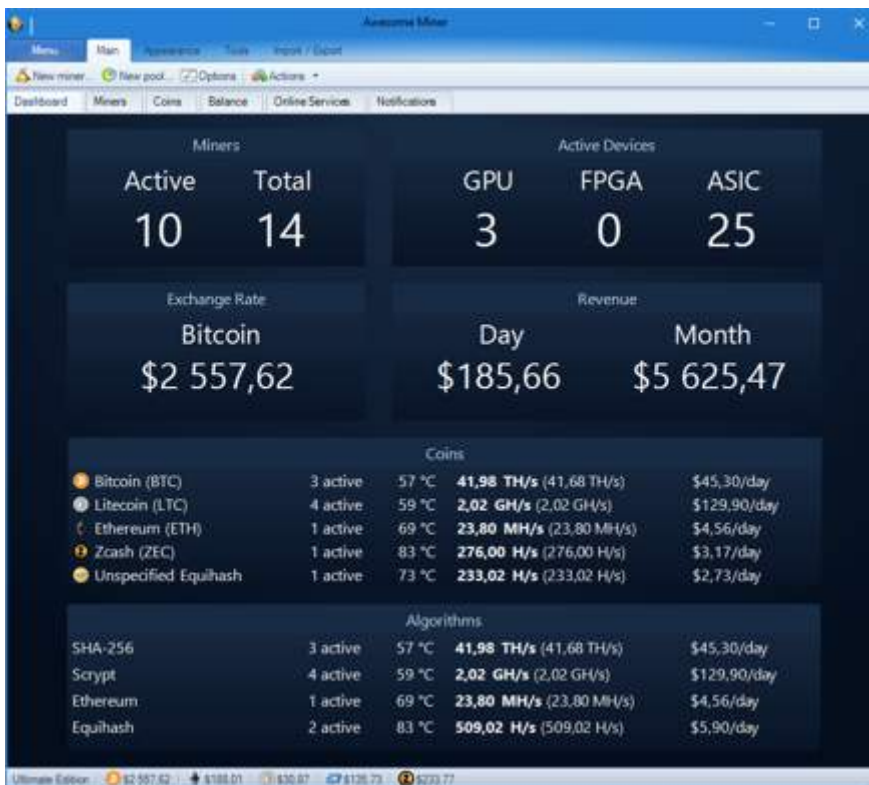
Mini Miner 2 (Scrypt)				
GPU settings				
GPU	Clock / Power	Fan	Temperature	Progress
 GPU 0: MSI Enabled Activity: 99% Intensity: 13	GPU: 1060 MHz Memory: 1500 MHz GPU Voltage: 1,2 V Powertune: 0	40 % (1774 RPM)	80 °C	Accepted: 147 Rejected: 8 HW Errors: 0
 GPU 1: Sapphire Enabled Activity: 99% Intensity: 13	GPU: 1060 MHz Memory: 1500 MHz GPU Voltage: 1,2 V Powertune: 0	46 % (1604 RPM)	80 °C	Accepted: 183 Rejected: 7 HW Errors: 0

Some screenshots

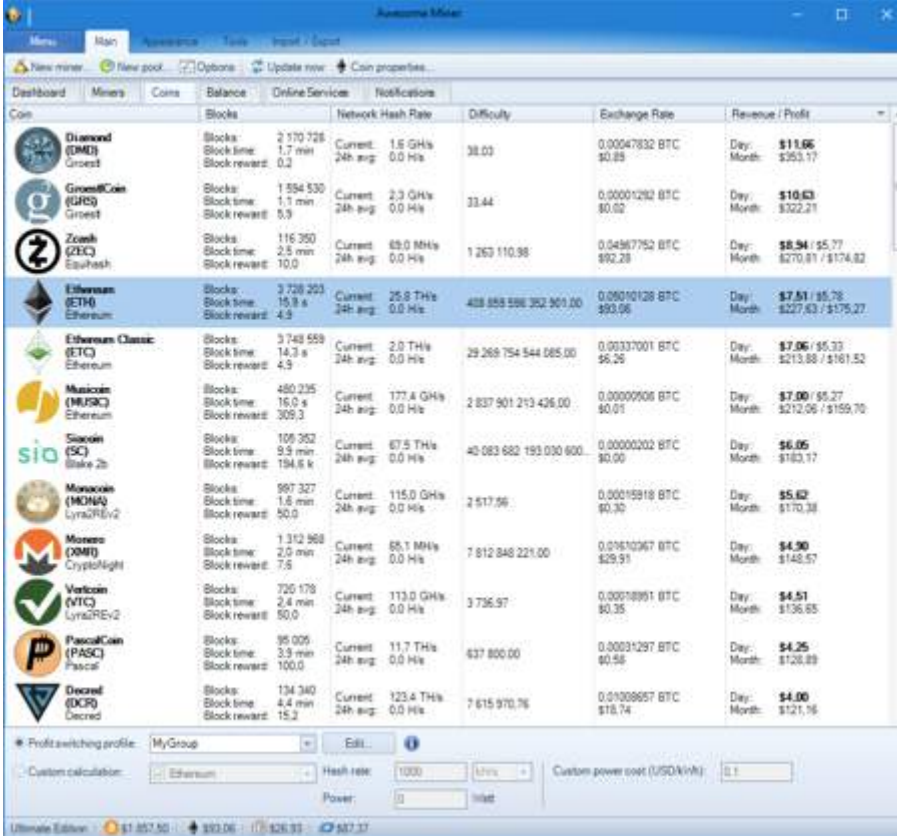
Crypto miners's statistics



Main console



Crypto currency status and statistics

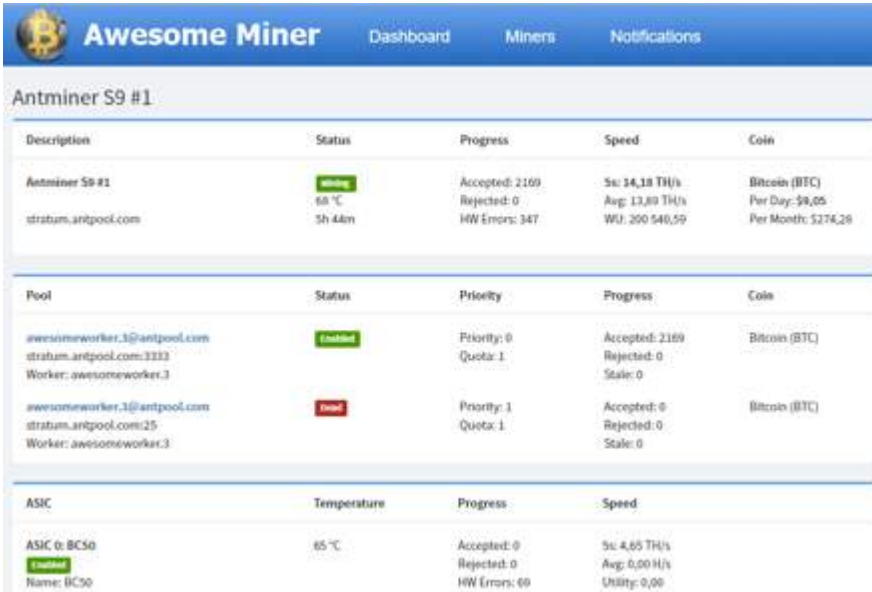


Coin	Blocks	Network Hash Rate	Difficulty	Exchange Rate	Revenue / Profit
Diamond (DMZ) Groestl	Blocks: 2 170 728 Block time: 1.7 min Block reward: 0.2	Current: 1.6 GH/s 24h avg: 0.0 H/s	38.00	0.00047832 BTC \$0.88	Day: \$11.66 Month: \$263.17
GroestlCoin (GRC) Groestl	Blocks: 1 554 530 Block time: 1.1 min Block reward: 5.9	Current: 2.3 GH/s 24h avg: 0.0 H/s	33.44	0.00001202 BTC \$0.02	Day: \$10.63 Month: \$322.21
Zcash (ZEC) Equihash	Blocks: 116 350 Block time: 2.5 min Block reward: 10.0	Current: 69.0 MH/s 24h avg: 0.0 H/s	1 267 110.98	0.04967752 BTC \$92.28	Day: \$8.94 / \$5.77 Month: \$270.81 / \$174.82
Ethereum (ETH) Ethereum	Blocks: 3 728 203 Block time: 15.8 s Block reward: 4.5	Current: 25.8 TH/s 24h avg: 0.0 H/s	438 888 586 352 301.00	0.00010128 BTC \$93.96	Day: \$7.51 / \$5.78 Month: \$272.43 / \$175.27
Ethereum Classic (ETC) Ethereum	Blocks: 3 745 559 Block time: 14.3 s Block reward: 4.5	Current: 2.0 TH/s 24h avg: 0.0 H/s	29 269 754 544 085.00	0.00337001 BTC \$6.26	Day: \$7.06 / \$5.33 Month: \$213.88 / \$161.52
Musicon (MUSC) Ethereum	Blocks: 480 235 Block time: 16.0 s Block reward: 309.3	Current: 177.4 GH/s 24h avg: 0.0 H/s	2 837 901 213 436.00	0.00000906 BTC \$0.01	Day: \$7.00 / \$5.27 Month: \$212.06 / \$159.70
Siacoin (SC) Blake2b	Blocks: 105 352 Block time: 9.3 min Block reward: 194.6 k	Current: 67.5 TH/s 24h avg: 0.0 H/s	40 083 682 193 030 600.	0.00000202 BTC \$0.00	Day: \$6.05 Month: \$183.17
Mosscoin (MCHN) Lyra2REv2	Blocks: 997 327 Block time: 1.6 min Block reward: 50.0	Current: 115.0 GH/s 24h avg: 0.0 H/s	2 517.96	0.00015918 BTC \$0.30	Day: \$5.62 Month: \$170.38
Monero (XMR) Cryptonight	Blocks: 1 312 968 Block time: 2.0 min Block reward: 7.5	Current: 66.1 MH/s 24h avg: 0.0 H/s	7 812 848 221.00	0.01610367 BTC \$29.91	Day: \$4.90 Month: \$148.57
Vertcoin (VTC) Lyra2REv2	Blocks: 720 178 Block time: 2.4 min Block reward: 50.0	Current: 113.0 GH/s 24h avg: 0.0 H/s	3 736.97	0.00018991 BTC \$0.35	Day: \$4.51 Month: \$136.65
PascalCoin (PASC) Pascal	Blocks: 95 005 Block time: 3.3 min Block reward: 100.0	Current: 11.7 TH/s 24h avg: 0.0 H/s	637 800.00	0.00031297 BTC \$0.58	Day: \$4.25 Month: \$128.89
Decred (DCR) Decred	Blocks: 134 340 Block time: 4.4 min Block reward: 15.2	Current: 123.4 TH/s 24h avg: 0.0 H/s	7 615 970.76	0.01009657 BTC \$18.74	Day: \$4.00 Month: \$121.16

Remote control

You can control your crypto mining systems from anywhere. Software support desktops, tablets and mobile phones

Пример работы системы



Description	Status	Progress	Speed	Coin
Antminer S9 #1 stratum.antpool.com	Mining	Accepted: 2169 Rejected: 0 HW Errors: 347	Sp: 14,18 TH/s Avg: 13,89 TH/s WU: 200 546,59	Bitcoin (BTC) Per Day: \$8,05 Per Month: \$274,28
Pool	Status	Priority	Progress	Coin
awesomeworker.3@antpool.com stratum.antpool.com:3333 Worker: awesomeworker.3	Enabled	Priority: 0 Quota: 1	Accepted: 2169 Rejected: 0 Stale: 0	Bitcoin (BTC)
awesomeworker.3@antpool.com stratum.antpool.com:25 Worker: awesomeworker.3	Dead	Priority: 1 Quota: 1	Accepted: 0 Rejected: 0 Stale: 0	Bitcoin (BTC)
ASIC	Temperature	Progress	Speed	
ASIC 0: BC50 Enabled Name: BC50	65 °C	Accepted: 0 Rejected: 0 HW Errors: 60	Sp: 4,65 TH/s Avg: 0,00 H/s Utility: 0,00	

Železnička 50,21000, Novi Sad, Serbia
 +381 21 525-777
 atvaradze@atsol.rs



Additional options

Liquid cooled racks for equipment

On process of mining crypto currencies produce a lot of heat. And for effectively working with crypto miners are needed good cooling. Using standard air cooling systems very often not effective and need to spent a lot of money. It is mean what energy cost will by hi and interest from crypto minig low.

Our solution – it is industry produced 19” servers racks. Inside of this racks have special vents and water radiators. It is exclude possible contact between water and electronics.



Our Liquid cooled racks solution – it closed air circulation system. It is mean what decreased leaking power for cooling outside air. Small intenal air’s volume provide high speed of air cooling. It is make efficiency more high when in traditional air cooling system. Liquid cooled racks solution provide more effective cooling solution for crypto miners and save your money for electircity

In local climatic conditions your can use “free cooling” mode, use outside low temperature. In this mode working only chiller’s vents without compressors. It is save a lot of money.