. Zcash Eth BTC Apps BA.Net

ZEC Mining Calc . free Nvidia Mining OS

Hardware . Miner Stats . Menu . **PRO**
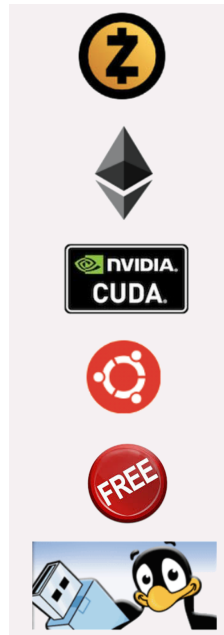
free BA.net Nvidia Mining OS
Mine ZEC, ETH on a Turnkey Linux Pendrive

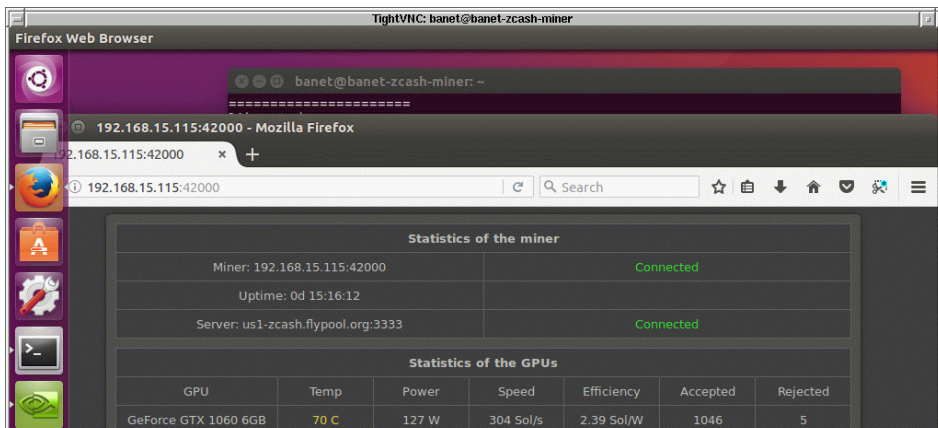Easy Boot from USB Pendrive. Smallest Distro Image. No Drivers to Install.

• No User Registration. Free OS.

• Stable Mining that works with up to 16 Nvidia GPUs.

• Free Download banet-miner-os-v47.img.gz (1.5 GBytes)

Readme.txt FAQ.txt

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Screenshots

GeForce GTX 1060 6GB	70 C	126 W	307 Sol/s	2.44 Sol/W	1033	5
Total	-	253 W	611 Sol/s	2.42 Sol/W	2079	10

EWBF 0.3.4b

TightVNC: banet@banet-zcash-miner

NVIDIA X Server Settings

NVIDIA X Server Settings

X Server Information
X Server Display Configuration
▼ X Screen 0
    X Server XVideo Settings
    OpenGL Settings
    OpenGL/GLX Information
    Antialiasing Settings
    VDPAU Information
▼ GPU 0 - (GeForce GTX 1060 6GB)
    Thermal Settings
    PowerMizer
▼ GPU 1 - (GeForce GTX 1060 6GB)
    Thermal Settings
    PowerMizer
Application Profiles
nvidia-settings Configuration

PowerMizer Information

Adaptive Clocking: Enabled

Graphics Clock: 1972 Mhz
Memory Transfer Rate: 8100 Mhz

Power Source: AC

Current PCIe Link Width: x1
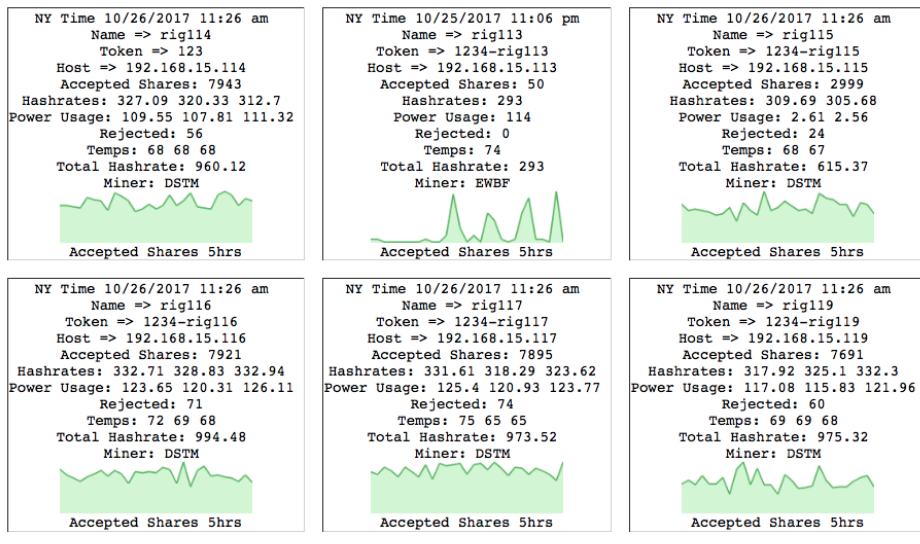Current PCIe Link Speed: 5,0 GT/s

Performance Level: 2

Performance Levels

Level	Graphics Clock Min	Max	Memory Transfer Rate Min	Max
0	253 MHz	759 MHz	810 MHz	810 MHz
1	253 MHz	2062 MHz	1620 MHz	1620 MHz
2	253 MHz	2062 MHz	8104 MHz	8104 MHz
3	253 MHz	2062 MHz	8508 MHz	8508 MHz

Editable Performance Levels

Level	Graphics Clock Offset Current	Min	Max	Memory Transfer Rate Offset Current	Min	Max
0	50	-200 MHz	1200 MHz	500	-2000 MHz	2000 MHz

PowerMizer Settings

Preferred Mode: Auto   Current Mode: Adaptive

```
NY Time 10/26/2017 11:26 am        NY Time 10/25/2017 11:06 pm        NY Time 10/26/2017 11:26 am
       Name => rig114                     Name => rig113                     Name => rig115
       Token => 123                       Token => 1234-rig113               Token => 1234-rig115
    Host => 192.168.15.114             Host => 192.168.15.113             Host => 192.168.15.115
    Accepted Shares: 7943              Accepted Shares: 50                Accepted Shares: 2999
 Hashrates: 327.09 320.33 312.7          Hashrates: 293                 Hashrates: 309.69 305.68
Power Usage: 109.55 107.81 111.32     Power Usage: 114                  Power Usage: 2.61 2.56
       Rejected: 56                       Rejected: 0                        Rejected: 24
       Temps: 68 68 68                    Temps: 74                          Temps: 68 67
   Total Hashrate: 960.12            Total Hashrate: 293               Total Hashrate: 615.37
       Miner: DSTM                        Miner: EWBF                        Miner: DSTM

    Accepted Shares 5hrs              Accepted Shares 5hrs              Accepted Shares 5hrs
```

```
NY Time 10/26/2017 11:26 am        NY Time 10/26/2017 11:26 am        NY Time 10/26/2017 11:26 am
       Name => rig116                     Name => rig117                     Name => rig119
       Token => 1234-rig116               Token => 1234-rig117               Token => 1234-rig119
    Host => 192.168.15.116             Host => 192.168.15.117             Host => 192.168.15.119
    Accepted Shares: 7921              Accepted Shares: 7895             Accepted Shares: 7691
Hashrates: 332.71 328.83 332.94     Hashrates: 331.61 318.29 323.62   Hashrates: 317.92 325.1 332.3
Power Usage: 123.65 120.31 126.11   Power Usage: 125.4 120.93 123.77  Power Usage: 117.08 115.83 121.96
       Rejected: 71                       Rejected: 74                       Rejected: 60
       Temps: 72 69 68                    Temps: 75 65 65                    Temps: 69 69 68
   Total Hashrate: 994.48           Total Hashrate: 973.52            Total Hashrate: 975.32
       Miner: DSTM                        Miner: DSTM                        Miner: DSTM

    Accepted Shares 5hrs              Accepted Shares 5hrs              Accepted Shares 5hrs
```

Farm Hashrate
4811.81

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Mining Farm Features – PRO Version

- Overclock and Power Settings Optimization
- Autorestart Optimization
- Remote SSH Control Access with Integrated NAT Tunnel
- Optimizing Proxy
- Mobile Telegram Notifications
- Unlimited Mining Rigs

Unlimited Mining Rigs
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- One year updated miners and drivers
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BA.net Zcash Nvidia Mining OS

A 64-bit linux OS that mines Zcash, ZEN, Ethereum, Monero, and other GPU-minable coins. Altcoins can be autotraded to Bitcoin Cash.

Features

- Boots and mines: Automatic IP assignment, no need to install any drivers, configure XWindows, or compile any software.
- No user registration. Free Linux OS with full root access.
- Smallest linux boot image file 1.5 GB
- No need of SSD or hard drive
- Supports up to 16 Nvidia GPUs: Any 2GB+ GTX 900 and GTX 1000 series.
- Headless mining. No attached monitor needed. Remote VNC or SSH access.
- Supports multiple coins: Ready to mine Zcash, ZEN, Eth and other gpu-minable coins.
- EWBF Zcash Miner, DSTM, Claymore Dual, Ethminer.
- Works on your nvidia hardware: Running on hundreds of rigs with hundreds of different components.
- Individual GPU card overclocking, power and fan control settings.
- Remote configuration: Remote reboot, set core clocks, mem clocks, fan control, pool info, and other settings remotely.

- Lightweight: Works with weakest possible CPU made in the last 5 generations on only 2GB of ram.
- GPU overheat protection: GPUs will automatically throttle or turn off if they reach temperature thresholds.
- Stratum enabled: Automatically configured to mine via efficient stratum.
- Automatic reporting: Web panel with detailed rig statistics, charts

- Fast miner startup, low disk/cpu usage, and no out-of-space issues.

Requirements

- 8GB Flash Pendrive (or larger)
- Nvidia GPU Cards

BA.net Nvidia Miner OS

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iphone@ba.net

Mining Rig Hardware Howto

Zcash: Fulfilling The Digital Cash Promise of Anonymous, Private Transactions

Summary

ZCash is the first zero knowledge crypto protocol. Zcash offers total payment confidentiality, while still maintaining a decentralized network using a public blockchain. Unlike Bitcoin, Zcash transactions automatically hide the sender, recipient, and value of all transactions on the blockchain. Only those with the correct view key can see the contents. Users have complete control and can opt-in to provide others with their view key at their discretion.

The Zcash protocol offers total payment confidentiality, serving as a true digital cash that leaves little to no publicly identifiable information about the parties involved or nature of a transaction. Unlike Bitcoin, Zcash transactions can be shielded to hide the sender, recipient, and value of all transactions on the blockchain. Zero knowledge proofs are at the center of Zcash's confidentiality. Generally speaking, zero knowledge proofs allow for proving knowledge of some facts about hidden information, without revealing that information. The property of allowing both verifiability and privacy of data makes for a strong use case in a wide array of transactions.

Zcash uses a particular type of zero-knowledge proof called zk-SNARKs (or "zero-knowledge succinct non-interactive arguments of knowledge"). Within a Zcash transaction, there may exist a string of data that the sender of a transaction provides – the "zero-knowledge proof" – along with the encrypted transaction data which proves properties of the encrypted data cryptographically, including that the sender couldn't have generated that string unless they had ownership over the spending key and unless the input and output values are equal. The proof also guarantees creation of a unique nullifier, which is used to mark tokens as spent. This allows for verification that the transaction is valid, while preserving privacy of the transaction details.

The Zero Cash Electric Coin Company, led by Zcash founder Zooko Wilcox, has already announced partnerships with J.P. Morgan Chase and its Etherum-based Quorum network. We view potential application of Zcash privacy technology to financial market

transactions, in addition to global retail transaction volume, as a promising tailwind for network. 21 million Zcash currency units will be mined over time. Zcash is mined with new 2MB blocks being created roughly every 150 seconds. Token supply will mirror Bitcoin's, but Zcash blocks will be mined 4 times as frequently in 2MB blocks (instead of 1MB in the case of Bitcoin). The more frequent and larger blocks results in transaction capacity that is roughly 8x that of Bitcoin.

Overall, the Zcash project received 3 million dollars from a range of investors. Because Zcash was not

premined like many other coins, it instead utilizes a founder's reward to pay founders, employees, advisors and early investors. The ZEC monetary base is the same as Bitcoins, but of the maximum 21 million ZEC currency units mined over time, 90% will be distributed to miners and 10% (2.1 million) will be distributed to founders/advisors/investors of the company over the course of four years. Unlike a pre-mine or an ICO, this structure offers little or no opportunity for the founders to pump-and-dump their holdings. After four years, the Founders' Reward ends and all subsequent mining rewards go to miners.

Token Supply Experienced Management Team, Advisors & Early Investors Zooko Wilcox is the Founder and CEO. Zooko has more than 20 years of experience in open, decentralized systems, cryptography and information security, and startups. He is recognized for his work on DigiCash, Mojo Nation, ZRTP, "Zooko's Triangle", Tahoe-LAFS, BLAKE2, and SPHINCS. Zooko Wilcox has founded and served as CEO of both Zcash and the Zerocoin Electric Coin Company. Advisors include leading names in the crypto community, including Gavin Andresen (Bitcoin Foundation), Vitalik Buterin (Ethereum), Arthur Breitman (Tezos), among others. Early investors include Pantera Capital, Digital Currency Group, Roger Ver, Erik Voorhees, Fred Ehrsam, among others. The Investors' Debrief Reasons to Invest

Reasons to Sell Zcash addresses the privacy and

confidentiality concerns stemming from blockchain-based payments that have led many individuals and institutions to shy away from adopting such technologies, particularly among institutions operating in financial markets where transactional anonymity is extremely valuable.

Zcash has the backing of several of the most highly-respected investors and advisors in the crypto world, drawing support from across ideological sects within the community. While appealing to broad swathes of the crypto world, it is also partnering with large incumbent financial institutions such as J.P. Morgan, a balancing act that gives us confidence in the quality and strength of its product.

Future applications of zk-Snarks may create further use-cases, especially in enterprise settings where new Z-cash applications may amplify the demand for robust privacy solutions; the increase in real-life use cases with cutting edge technology would increase the value of ZEC tokens overtime The race for truly private transactions is hyper competitive. Traditional financial services providers are vying to develop their own products and services, while crypto competitors like Monero (XMR) have their own established products. Though we are encouraged by the strong team of advisors and partners that Zcash has established, there is clear competitive risk.

While difficult to say with certainty, many observers

have noted that the majority of Zcash transactions are actually not being conducted using the shielded, private functionality that Zcash offers. Instead most are "public" much like a Bitcoin transaction. Critics suggest this stems from slower transaction speeds for the private transactions, which may raise scalability concerns. Any network that facilitates truly anonymous transactions is likely to draw a skeptical eye from regulators.

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Open source code for this Bitcoin wallet and tools
available http://ba.net/bitcoin/src

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