

Assume You're Doing It Wrong

- Things change quickly and what worked yesterday may not work today.
- The crypto currency community is full of immature players. Be prepared for some to fail.

This Is A Speculative Market

- If you can't afford to loose your investment, this isn't for you.
- If you need to go into massive debt to do this, this isn't for you.

There Are Huge Upsides

- The technology solves fundamental problems.
- The market is sorting out efficiency and effectiveness





Simplify Your Build

- More than 3 mining rigs is a problem if your configuration isn't standardized.
- Try to reduce the number variations and build for long term reliability.

An Example Build

- Windows 10 Home
- A local account with no password
- Remove all network services except IPv4
- Remove all software except Awesome Miner and it's dependencies
- Isolate mining to a separate network with a good firewall



Don't Set Your Rig On Fire

- Avoid PCI-E Bridges SATA power connections.
- Put no more than two PCIE Bridges on a power lead.
- Put no more than one GPU on a power lead.
- Use every power lead possible from your power supply to balance load.

An Example Build

- Asrock H110 Pro BTC+ Motherboard w/G4400 CPU
- EVGA 1000w Power Supply
- 6x Asus Dual GTX 1060-03G GPUs
- Total Power Budget 660w



Manage Your Power

- Use a Monitoring Power Distribution Unit
- 210v Power is slightly more efficient (±5%).
- Derate 20% off the top from your stated capacity.
- Derate 15% for constant load.
- Assume 80°F and 12AWG Cable in a Single Conduit

An Example

- A 210v 20amp circuit is derated to 13amps
 That yields 2.73 kVA
- A 110v 20amp circuit is derated to 13amps
 That yields 1.43 kVA



Use a Mining Manager

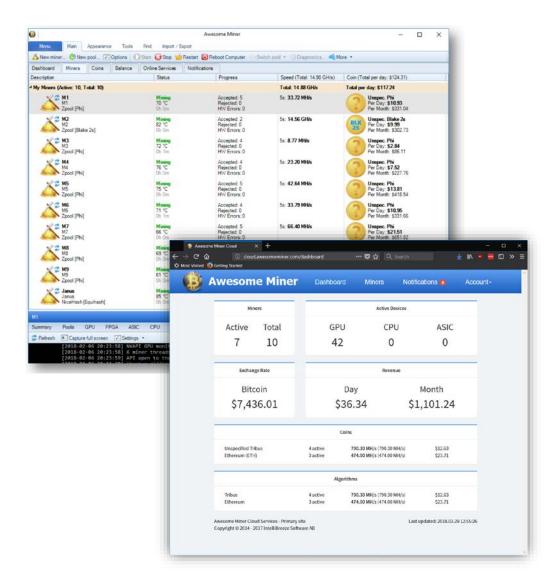
Miners do unexpected things.
 You can watch your miners, or hire a manager.

Choose Your Tools

- ASICs will always outperform GPUs
- General Purpose GPUs will hold more value than specialized ASIC hardware

An Example

 Awesome Miner can manage ASIC, static GPU miners, and automated profit GPU miners.



Source: https://awesomeminer.com

Is It Profitable?

Capital Investments

- 6x 1st Generation Mining Rigs \$2,100 x 6 = \$12,600
- $3x 2^{nd}$ Generation Mining Rigs $$3,800 \times 3 = $11,400$
- Electrical Improvements (\$2,000)
- 24m 40% Salvage on Hardware No Cost of Money
- Total CapEx per Month \$683

Operational Costs

- Electricity7.1kw x 7¢ per kwh x 720h per month = \$358
- Cooling 20'x20'x14' Room with a 30° Change 18,340 BTU or 5.345kw of power 5.345kw x 7¢ per kwh x 720h per month = \$270
- Total OpEx per Month \$628



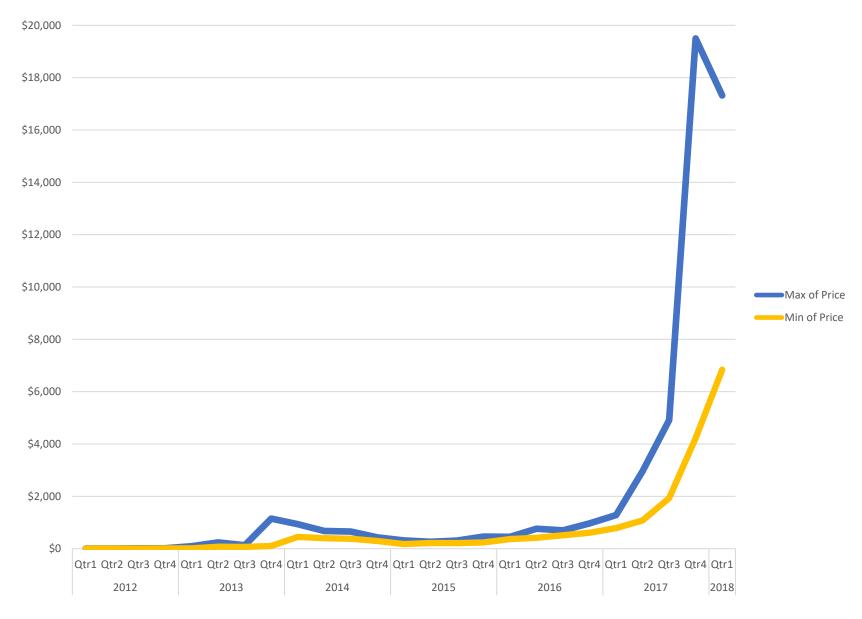


Choose Your Crypto Coin and Answer These Questions Three



Is this a store of value?

Bitcoin as a Store of Value



Bitcoin as a Store of Value

Q: Is this a store of value?

A: No: If your job paid you \$1,000 and tomorrow it might be worth \$2,000 or \$20; how comfortable would you be knowing you had to pay the rent?

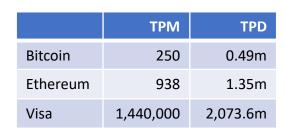
\$8,000

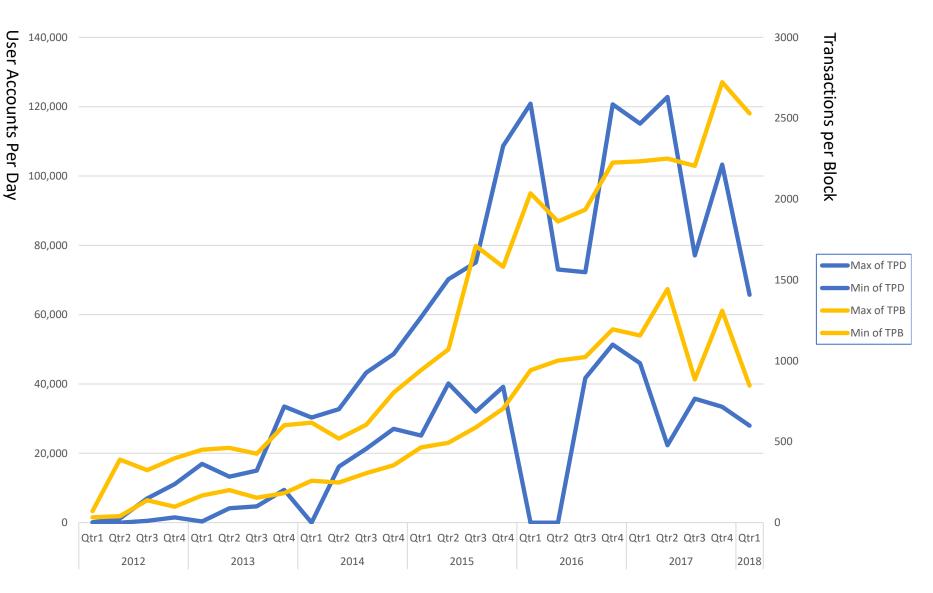
Crypto Currencies have few underlying assets which can make their value highly influenced by speculation. Violitility can deter people from entering and remaining in the market.



Is this a fungible currency?

How Active is the Network





How Active is the Network

Q: Is this a fungible currency?

A: No. In it's current state, Bitcoin cannot technically scale to accommodate the capacity or velocity necessary to be

considered a fungible currency.

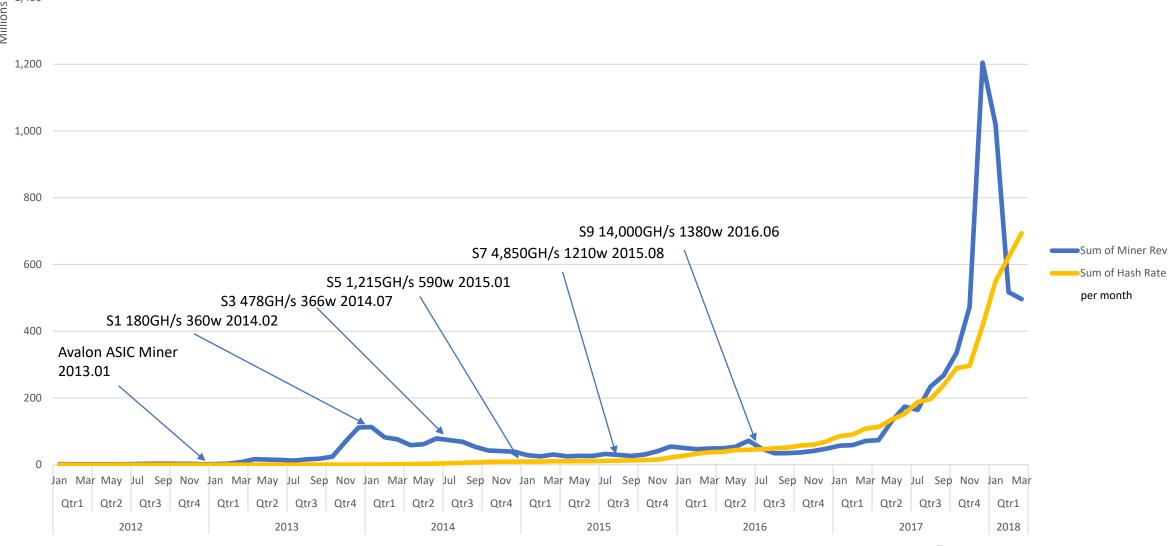
Similar to the problem of known value, because there is no underlying asset, Bitcoin is further destabalized because it is not a substitute currency when exchanging for a known commodity.

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Is the underlying platform stable?

The Future of Proof of Work



Revenue

(number of bitcoins mined per day
+ transaction fees) * market price

The Future of Proof of Work

Q: Is the underlying platform stable?

A: No. Consider the number of altcoins, projects and technologies that are just starting to emerge.

S5 1,215GH/s 590w 2015.01

per month

We are at the beginning of a wave of technical innovation that will provide many exciting applications that can

transform the world.

an Mar May Jul Sep Nov Jan Mar

Revenue

(number of bitcoins mined per day + transaction fees) * market price

Should You HODL?

Think Short Term

- Is there any Technical Analysis that explains the financial model of market capitalization for Bitcoin / Altcoin?
- What are the sentiments that would drive speculative value?
- What is the cost to hold?

Think Long Term

- Look for technologies that meet these three tests
- Look for projects that create fundamental improvements in how we solve existing problems
- Look for applications that can't otherwise exist as effectively or efficiently without blockchain



