



BITCOIN

MAGAZINE®



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MADE IN CANADA

THE ORANGE PARTY ISSUE

HASHING THE HIGH

VISUALIZING THE ALL-TIME HIGH HASHRATE

HOW BIG IS THE BITCOIN NETWORK HASHRATE?

The Bitcoin network is made up of a staggering amount of miners, referred to as ASICs, or Application-Specific Integrated Circuits, which use a diverse energy mix to submit hashes to find the next Bitcoin block. In June of 2022, the network surged to an all-time high of 266.5 EH/s.

266,500,000,000,000,000,000

Hashes per Second at All-Time High

Let's try to better understand the size and scale of the Bitcoin network by looking at a current generation ASIC: the S19j Pro 100t Model. This ASIC was released in June 2021 with a stated power consumption of 3050 Watts. We will be using this model as the point of reference in visualizing this data.

The total amount of S19j Pro 100t's needed to equal the Bitcoin network:

2,665,000
S19j PRO 100t'S

HOW MUCH POWER DOES THAT NECESSITATE?

8,128,250,000 Watts

TO MAKE THIS EASIER TO UNDERSTAND; LET'S TURN WATTS INTO MEGAWATTS. 1 MEGAWATT = 1,000,000 WATT

8,128
Megawatts

**HOW MANY
ASICS PER
MW?**

328
S19j Pro 100t
per Megawatt

Many bitcoin miners use custom shipping containers to hold their ASICs.

These containers vary in capacity anywhere from half a megawatt to 2.5MW.

For these purposes, a 40-foot shipping container with 1MW of power capacity is a common deployment size, thus we can say:

1MW = 1 SHIPPING CONTAINER

40" L X 8" W X 8.5" H

A shipping container is a globally standardized size.

320
Square Feet

How many of these shipping containers could you fit on a football field, measuring 360' L x 160' W?

180 Shipping Containers
Per Football Field

**IF THE ENTIRE BITCOIN NETWORK
WAS LOCALIZED ENTIRELY IN
SHIPPING CONTAINERS:**

46 Football Fields of 1MW
Shipping Containers

It is estimated that around nearly half a trillion cubic feet of natural gas is flared or vented each year.

420,000,000,000
Cubic Feet

If you were to store that gas in the Superdome, in just one year you would fill 3,360 stadiums.

3,360
SUPERDOMES

This flared and vented gas could power the Bitcoin networks nearly twice over.

1.7 BITCOIN MINING NETWORKS 