



## Crypto Solution Brief

### Why Liqid

Liquid delivers the unrivaled flexibility, utilization, and efficiency required for crypto mining, one of today's most demanding workloads.

### Key Advantages

- » Deploy precise GPU performance at massive scale to a single workstation via software
- » Adapt to evolving demand in seconds and eliminate stranded resources
- » Reduce costs by maximizing GPU utilization, reducing footprint, and eliminating manual tasks.



# Accelerate Crypto Mining

Deliver Massive GPU Performance with Unmatched Efficiency

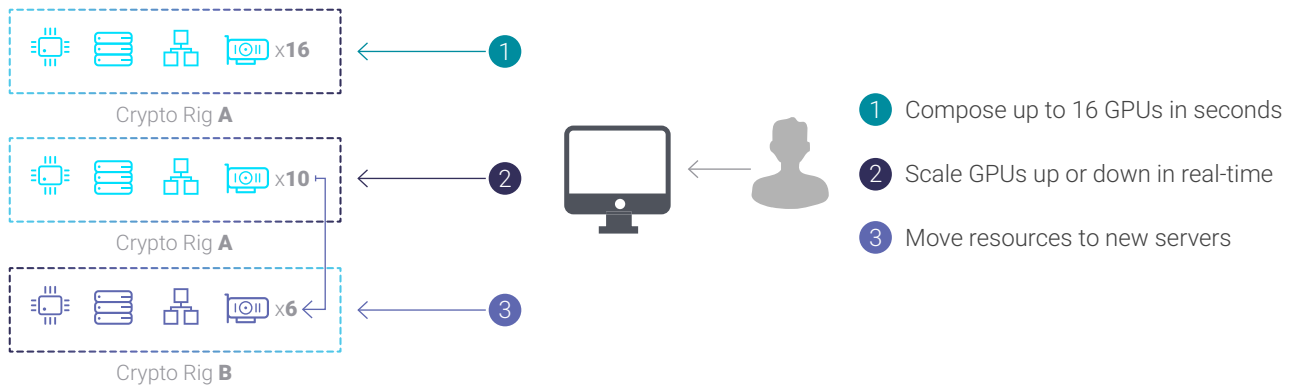
### Overview

The amount of infrastructure required to generate a single crypto coin has increased exponentially since 2009, with a design goal of slotting as many GPU behind a small CPU footprint as possible. GPU capacity has been bound by the number a server chassis can support, typically maxing out at eight. This low GPU:CPU ratio means capital and operational costs are being wasted on overbuying CPU to deploy GPU. Additionally, underutilized GPU trapped in servers are wasted. What once was done with a single computer now takes a room full of inefficiently managed resources.

Liquid offers a new way to deploy, add and move valuable resources like GPU called composable disaggregated infrastructure (CDI). With Liquid Matrix® CDI software, resources are provisioned to workstations and servers in seconds to meet a workload's exact performance and capacity requirements. When GPUs are not being utilized by one system, simply move them to another via Liquid's UI or API to maximize utilization and accelerate results.

Crypto miners can create previously impossible configurations, with the ability to compose up to 20 GPUs into a 1U server to support and accelerate their computational heavy workloads. Scale resources up or down to meet changing demand, in real-time. NVMe SSD solutions from Liquid can also be composed into servers, ensuring GPUs receive data as quickly as possible for faster results.

## Unlock New Levels of Speed and Efficiency



### Increase Flexibility

Define GPU compute for mining rigs by provisioning the precise number of GPUs required by a workload, not by how many GPUs a server can hold. Start with exactly what's required and scale up or down as demands evolve. Liquid ensures the highest degree of utilization for GPUs and storage.

### No stranded assets

GPUs are valuable resources and are wasted when underutilized. Liquid enables GPUs to be quickly moved between servers via software only, zero touch. Re-map new components to different servers to best align with new workloads and ensures your assets are being utilized 100% of the time and as efficiently as possible.

### Lower Costs

By enabling massive GPU scale to a single server, there's no need to buy a server each time GPU is needed. Additionally, with a software-defined approach to bare metal infrastructure, Liquid reduces the tedious manual infrastructure task associated with traditional infrastructure. Compute, storage and GPU resources are interconnected over our Matrix PCIe fabric, so deployment, scale and rebalancing resources is done via software which lowers operating expenses.

### Increased Sustainability

As the annual rate of energy consumption associated with cryptocurrency mining has become larger than that of many countries, sustainability has come to the forefront of the crypto mining discussion. With Liquid Matrix software-defined solutions, IT users can architect crypto mining environments that better prepare organizations for more sustainable operations while creating a path forward for continued innovation in high-performance computing.

Since GPU and other resources can be pooled for more efficient utilization, and shared via software in previously impossible quantities, Liquid Matrix software increases performance and efficiency while reducing waste for a more efficient, sustainable compute environment.

[Learn More at Liquid.com](https://www.liquidmatrix.com)