Teraflux™ AH3880

The Auradine Teraflux portfolio of Bitcoin miners offers industry-leading performance, quality, uptime, security, and demand response features to deliver the lowest total cost of ownership for Bitcoin mining solutions.

The Auradine Teraflux AH3880 is an ASIC-based hydro-cooled Bitcoin miner. Miners can be managed using APIs and a web console that is available for each miner, and with FluxVision™ (purchased separately), the cloud management solution for pre-deployment configuration and tuning of Auradine miners at scale.

Uptime

Auradine Bitcoin miners possess exceptional uptime performance due to several key attributes that ensure reliability and better financial outcomes for Bitcoin mining operations.

- Superior Build Quality — High-quality components and construction reduce the likelihood of common failure modes seen in traditional systems. This is crucial for reliably maintaining continuous operation and avoiding downtime.
- Wide Operating Temperature Range — Bitcoin mining operations often take place in various environments with different temperatures. A wider operating temperature range allows the miners to function effectively even in extreme conditions, preventing unexpected shutdowns.
- Demand Response Capabilities — The ability to seamlessly adjust the operating point on the performance-power spectrum enables the miners to slow down and keep running, instead of shutting down completely. Unlike traditional Bitcoin miners that take ten minutes per iteration and require frequent reboots to adjust the operating frequencies and voltages of the mining ASICs, the Auradine miners have a sophisticated, built-in Dynamic Frequency and Voltage Scaling (DVFS) mechanism that perform these optimizations in half the time. To maximize profitability and minimize downtime, operators can respond to the time-based rates or signals from the electric grid and adjust power consumption during peak periods, and promptly resume desired hashing levels thereafter.

Software Specifications

Power Management

Auradine is the only hardware OEM to directly integrate with the power grid and Qualified Scheduling Entities (QSEs) such as Voltus. A QSE can modulate power consumption on your mining farm based on demand response to grid supply and load curtailment for cost savings. Power Management is available with FluxVision.

EnergyTune™

EnergyTune uses Dynamic Voltage and Frequency Scaling (DVFS) to set the desired power consumption (in Joules) per miner by suitably varying all other system parameters. In addition to this default mode where you can customize your preference, the web console on the miner also allows the operator to select an operating mode of ECO (least power consumed per TH or maximum efficiency) or Turbo (highest TH/s performance). EnergyTune is configurable using APIs and the web console that is available for each miner.

AutoTemp

Temperature regulating mechanism that continuously monitors the internal junction temperature of the ASICs and reduces the TH/s to ensure that the ASICs are operating in a safe zone. AutoTemp is enabled on every miner and automatically tuned to a pre-determined threshold to dial down performance and prevent damage from overheating.

User-friendly Interface and API Support

The miners support a user-friendly web-based console and a set of APIs, as well as FluxVision, the cloud management solution. The dashboard on the miner web console displays system information and statistics on memory consumption, hash rate, power consumption and efficiency with additional details on frequency, voltage, and temperature for each installed hashboard. It also makes it very easy to install and upgrade Auradine firmware on the miner.
You can also leverage the API integration with Foreman or AwesomeMiner for fleet management.

FluxVision™

FluxVision is the cloud management solution for pre-deployment configuration and tuning of Auradine miners at scale. It is a standalone product that helps Bitcoin operators organize miners as 'miner groups' to simplify the configuration and reporting for different sets of miners, and leverage Zero Touch Provisioning (ZTP) so that the miners can start hashing as soon as they are plugged into the network.

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Preliminary Hardware Specifications

AH3880 Product Specifications	Value
Crypto Algorithm	SHA-256
Hashing Performance (TH/s at Joules/TH)	Range: 0- 600TH/s[1] Normal: 14.5 J/TH at 450TH/s[1] Turbo: 16.75 J/TH at 600 TH/s[1]
Cooling Mechanism	Hydro
Coolant per miner	Approximately 1L
Coolant Temperature Range	10°C to 60°C
Coolant Flow Rate	~5L/min to 20L/min
Power	10000 Watts[2]
Power Supply AC Input Voltage, Nominal, Min/Max (Three phase AC input)	380-480V, 320-528V
Power Supply AC Input Current	20 Amps per phase
Power Supply AC Input Frequency	48-62Hz
Power Cable	1 x SA2-30 to SA2-30
Connectivity Options	RJ45 Ethernet 10/100/1000
Dimensions (Length/Width/Height)	26.2 x 19.1 x 3.5 inches / 665 x 485.65 x 88 mm
Weight	64 lbs / 29 kg
Storage Temperature	-40 to 158°F (-40 to 70°C)
Operation Humidity, RH	20-80% RH non-condensing
Operation Altitude	9,840ft (3,000M)[3]

1) Preliminary estimates, ±8% , 2) PSU spec; system maximum may be slightly lower, 3) Operating temperature will vary based on altitude

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