

Avalon 821 Specification

Performance

Minimum hashrate @ burn-in	11 TeraHash
Maximum hashrate @ burn-in	12.1 TeraHash

Every miner is stress tested to insure performance and reduce infant mortality.

Chip Performance

Number	104 A3210 16nm ASIC
Frequency	Dynamically optimized
Reliability	99% reliable hashes. Validated on chip

Power Consumption

Efficiency	.10J/Gigahash
Power consumption	1200W, +0% ~ +20% @ 11TH/s, 25°C, 93% PSU Efficiency, 12V AC, Wall-Plug
Rated Input voltage	12-12.6V

Cooling

Cooling is provided by 1 fan operating at a maximum 6000RPM. Our unique Airforming heatsinks reduce the need for multiple fans. Since mechanical parts are prone to failure this improves our reliability.

Environmental

Air Intake Temperature	-5°C ~ 30°C
Operating Temperature	-5°C ~ 30°C

Warranty

All Canaan products are designed to last beyond two years and we provide a two year limited warranty. Free replacement of failing parts is provided from 120 days of purchase.

Repair & Replacement

Canaan products are designed for maintainability. The entire device can be disassembled with a single screwdriver. In the event of a failure, we ship new components that can be replaced with no specialized training, reducing your downtime and eliminating the need to fix individual hash boards.

Contact

sales@canaan.io



Description

The Avalon 821 is an 8th generation SHA-256 miner from the creators of the first ASIC based Bitcoin Miner. Powered by 104 A3210 16nm ASICs, the 821 delivers a minimum hashrate of 11+ Terahash at a nominal 1200Watts. Designed, built, and tested to last, the 821 comes with a 2 year limited warranty. Not that you'll need it, since Canaan products consistently have a 99% reliability over a 2 year period.

Proof of Work Support

The 821 supports SHA-256 mining and can be used to mine Bitcoin, Bitcoin cash or any SHA-256 based proof of work cryptocurrency

Physical Dimensions

Dimensions	370mm x 150mm x 136mm
Gross Dimensions	430mm x 215mm x 205mm
Weight	4.7kg
Gross Weight	5.2kg

Every 821 is packaged to withstand the rigors of international shipping and guaranteed to arrive in working order

Noise

The 821 is rated to operate at below 65dB, utilizing a single fan designed to pull air through our unique Airform cooling design

