OCTOMINER

BLOCKCHAIN & MINING *HARDWARE SPECIALISTS*
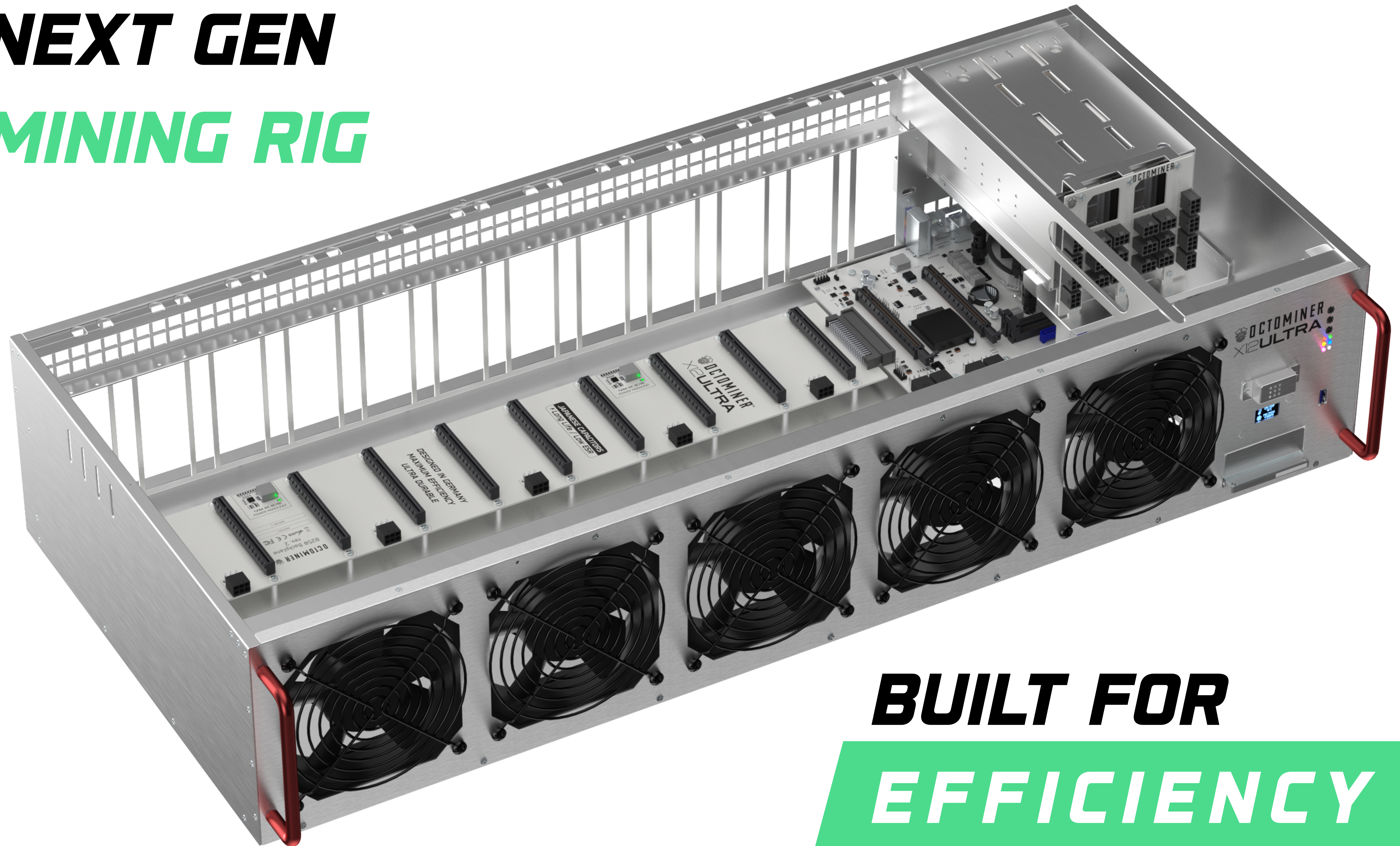
OCTOMINER

X12 ULTRA™

THE ONLY SMART GPU MINING RIG

NEXT GEN

MINING RIG
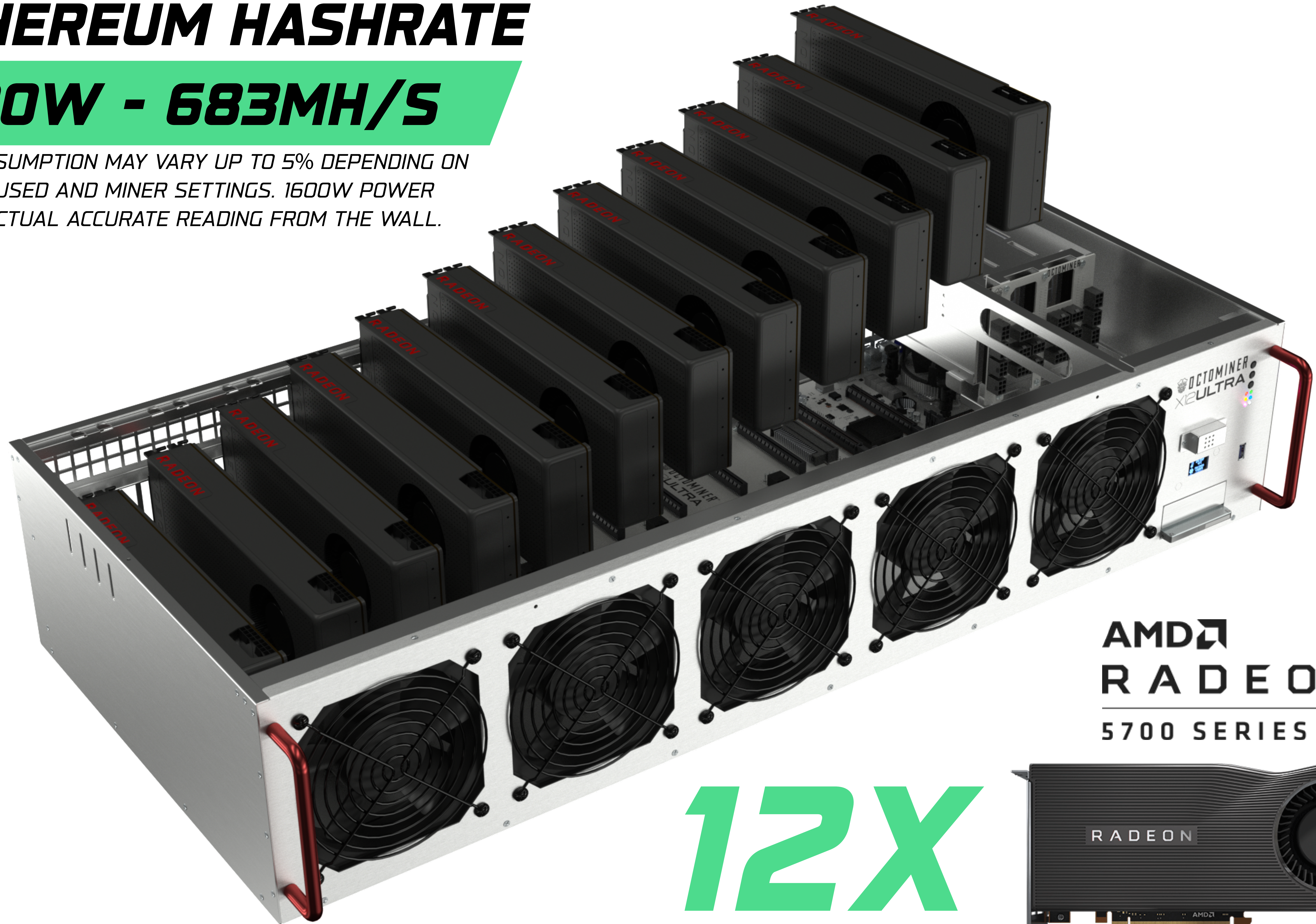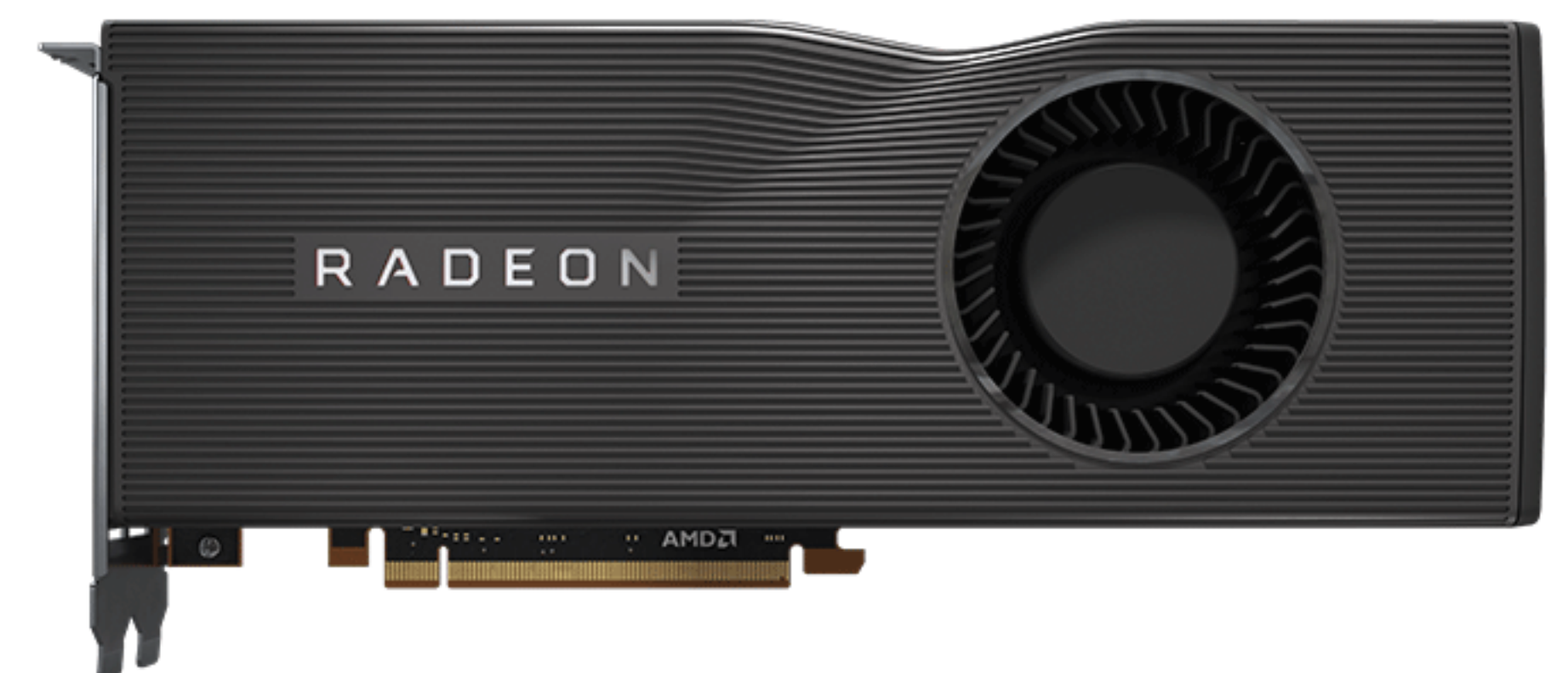
BUILT FOR

EFFICIENCY

ETHEREUM HASHRATE

1600W - 683MH/S

*POWER CONSUMPTION MAY VARY UP TO 5% DEPENDING ON
EXACT GPUS USED AND MINER SETTINGS. 1600W POWER
READING IS ACTUAL ACCURATE READING FROM THE WALL.

AMD
RADEON RX
5700 SERIES

12X
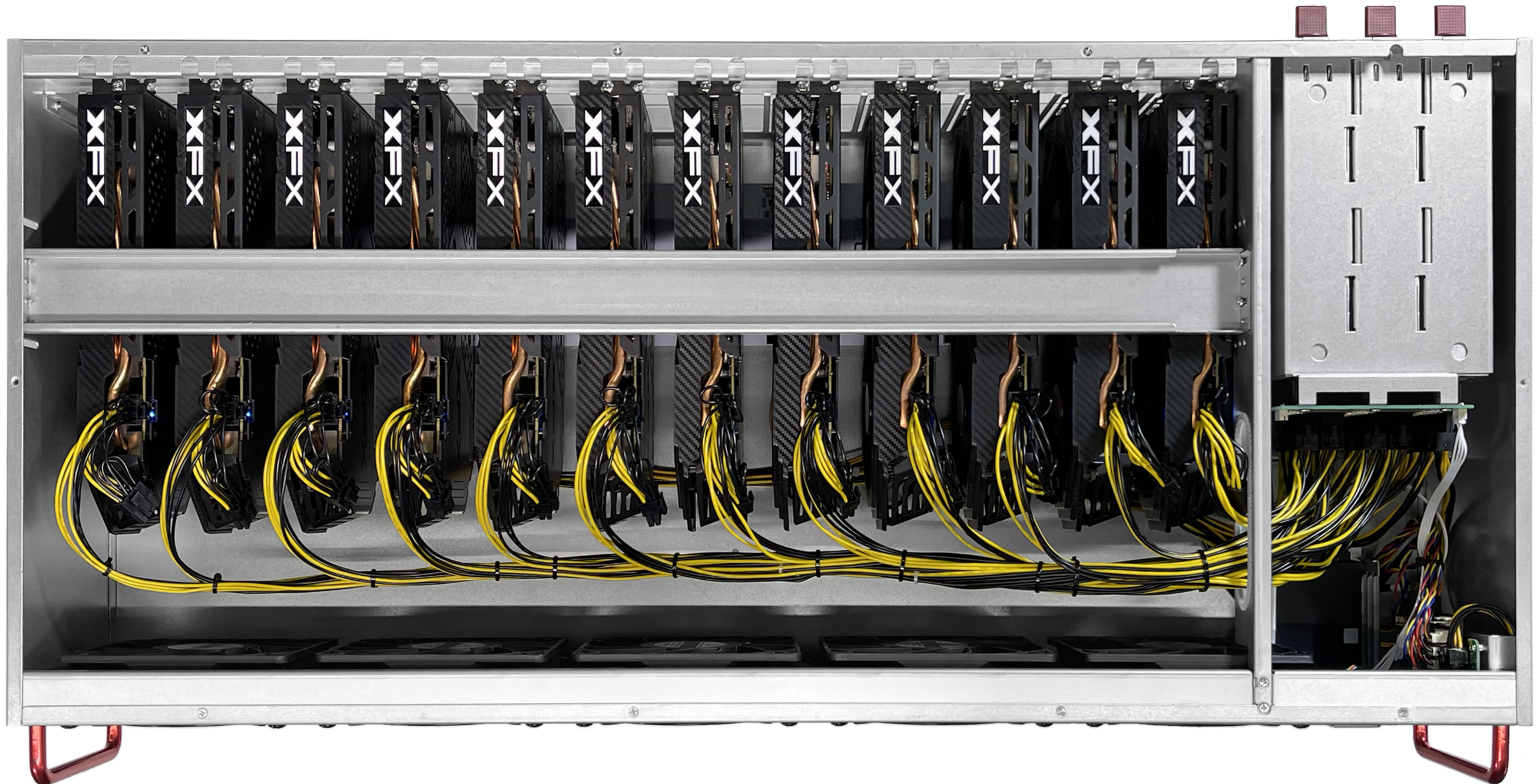
DESIGNED FOR LARGE SCALE
BLOCKCHAIN DEPLOYMENTS

CLEAN AND HIGH QUALITY POWER DELIVERY

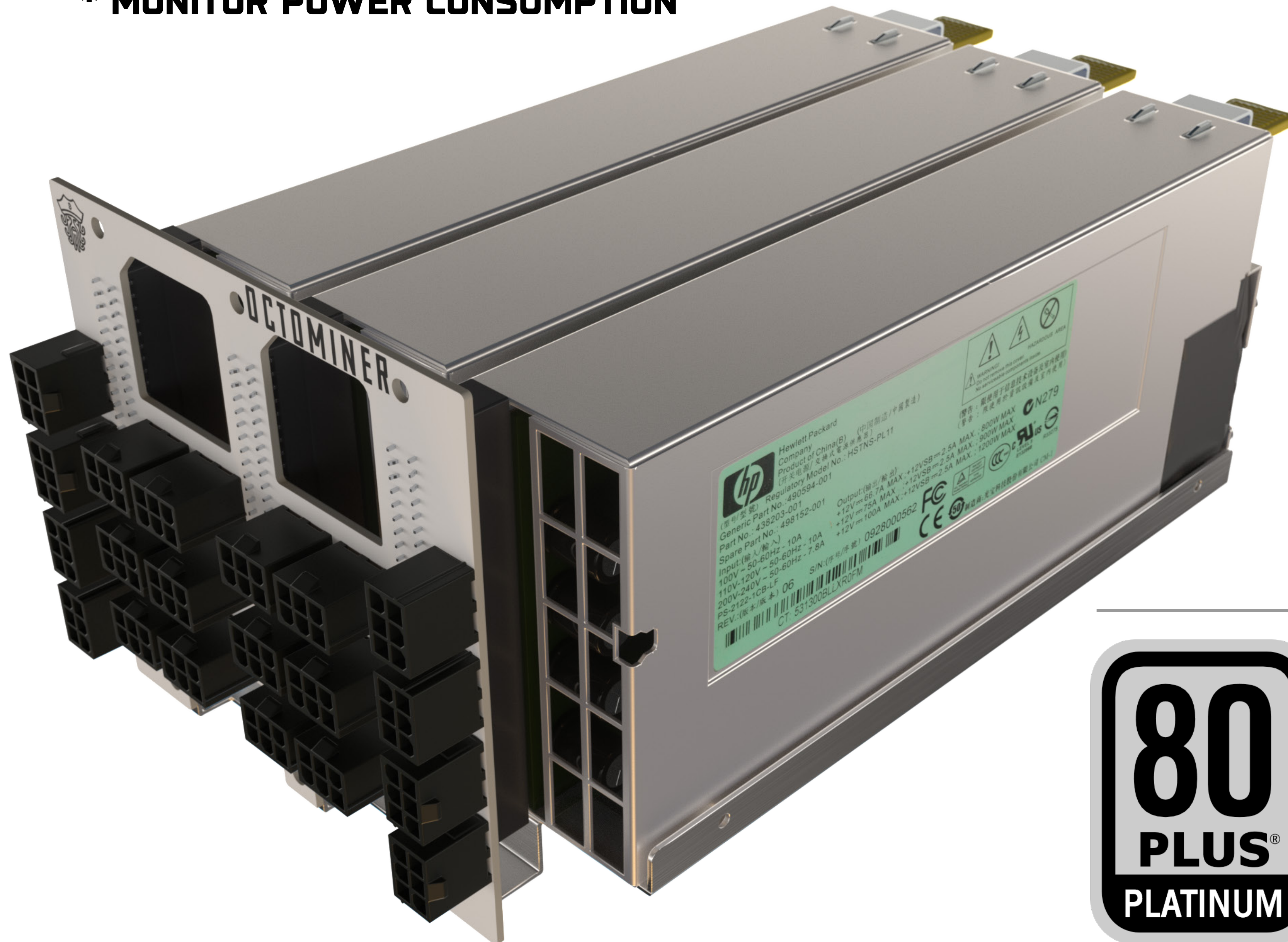18AWG CABLES - 24X PCIE 6+2P CONNECTORS

60.96MM GPU TO GPU SPACING

COMPATIBLE WITH ALL TRIPLE SLOT WIDTH GPUS

ENTERPRISE GRADE
POWER DELIVERY

OCTOMINER SMART POWER SUPPLY TELEMTRY FEATURES:

* MONITOR PSU INPUT AND EXHAUST TEMPERATURE
* MONITOR AND CONTROL PSU FAN SPEED
* MONITOR PSU 12V OUTPUT VOLTAGE
* MONITOR PSU AC INPUT VOLTAGE
* MONITOR POWER CONSUMPTION

SMART POWER SUPPLY TELEMTRY READOUT EXAMPLE:

AC:	Vac = 232.7V	Iac = 0.50A	Pac = 105.0W
DC:	Vdc = 12.20V	Idc = 7.4A	Pdc = 94.0W
TEMPS:	T1 = 25.9°C	T2 = 27.5°C	FAN = 1525RPM
PEAKS:	Pac = 111.0W	Idc = 9.4A	Wac = 0.003kWh

*ALL 3 POWER SUPPLIES HAVE THEIR INDIVIDUAL READOUT. ABOVE EXAMPLE SHOWS READOUT FOR SINGLE PSU.

80 PLUS® PLATINUM

94% EFFICIENCY ENTERPRISE GRADE HOT SWAP POWER SUPPLY (UP TO 3x 1200W, TOTAL 3600W)

*OPTIONAL 277V UPGRADE POSSIBLE (3x 1400W 277V FOR COMBINED 4200W TOTAL)

CE

cULus
LISTED

UL & CE CERTIFIED

POWER SUPPLIES

*OCTOMINER X12ULTRA USES ONLY UL LISTED AND
FULLY CE CERTIFIED POWER SUPPLIES.*

OCTOMINER
X12ULTRA

COMPATIBLE WITH
RTX 3090

OCTOMINER X12 ULTRA

MAXIMUM
330W PER GPU

1 YEAR

INTERNATIONAL
WARRANTY

OCTOMINER
X12 ULTRA

HIGH PERFORMANCE & LONG LIFESPAN FANS

• OCTOMINER VENTUS FANS WITH HIGH STATIC PRESSURE AND CFM FOR INCREASED AIRFLOW AND OPTIMAL COOLING PERFORMANCE.

• HEAVY DUTY ROHS CERTIFIED PLASTIC BLADES AND HOUSING.

• OPTIMIZED PCB AND MOTOR DESIGN (UP TO 20% MORE EFFICIENT).

• IMPROVED RELIABILITY AND HEAT DISSIPATION DUE TO THICK COPPER PCB.

• RELIABLE JAPANESE NMB DOUBLE BALL BEARINGS FOR INCREASED LIFESPAN.

• HIGH PRECISION AND EFFICIENCY PWM MODULATION SPEED CONTROL.

• 140X38MM SIZE PROVIDES HIGHER AIRFLOW AND EFFICIENCY AND ALSO LOWER NOISE.

140X38MM

OCTOMINER
DC BRUSHLESS FAN - 12V 2.1A
240CFM - 59DB - 3200RPM

VENTUS
JAPANESE NMB DOUBLE BALL BEARING

RoHS CE FC

01/2021

MANUFACTURED BY SHENZHEN IH SUCCESS CO. LTD - MADE IN PRC
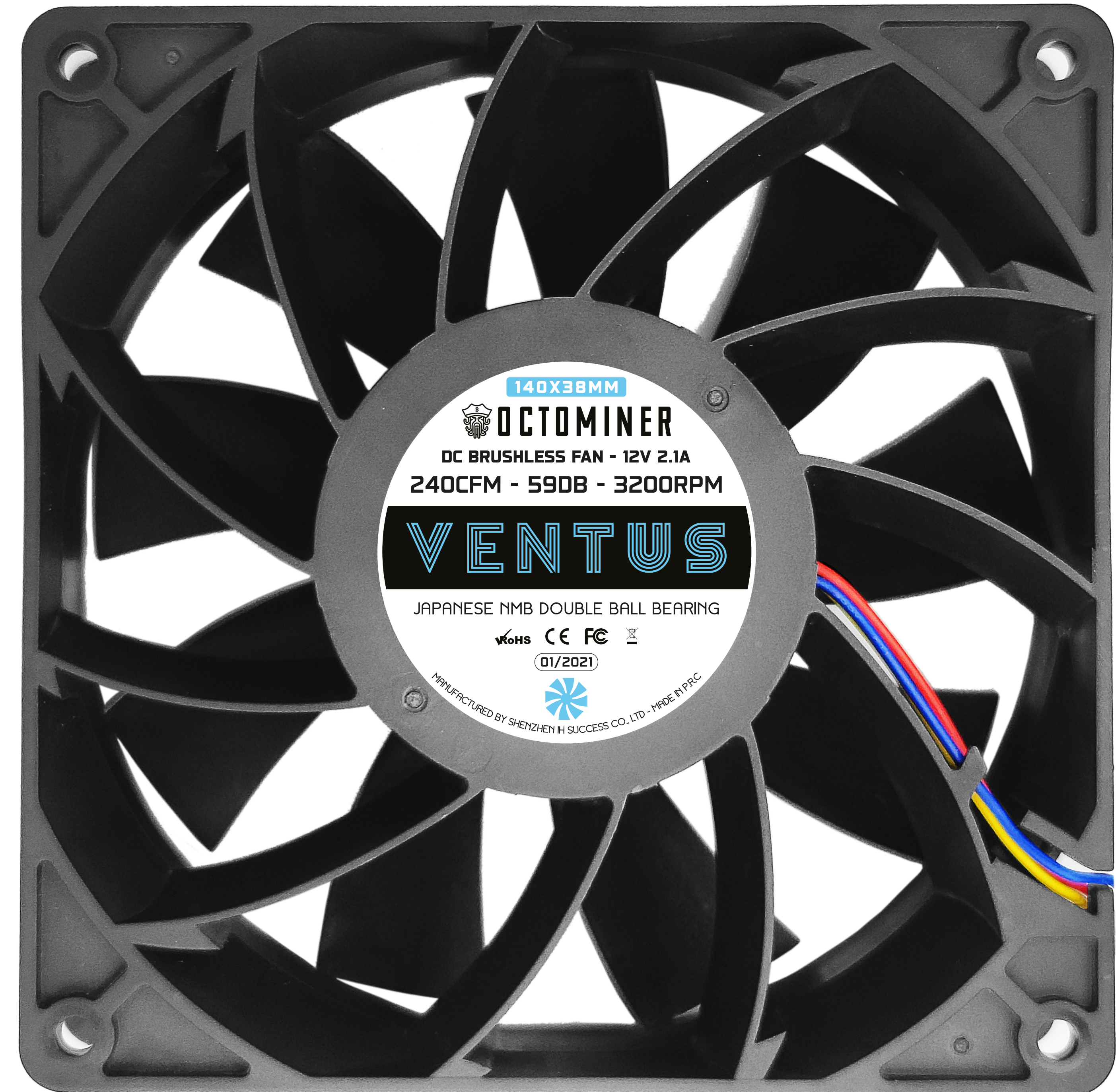
140x38MM FANS HIGH AIRFLOW & EFFICIENCY

ACCURATE ENVIRONMENTAL DATA

TEMPERATURE - HUMIDITY - AIR PRESSURE
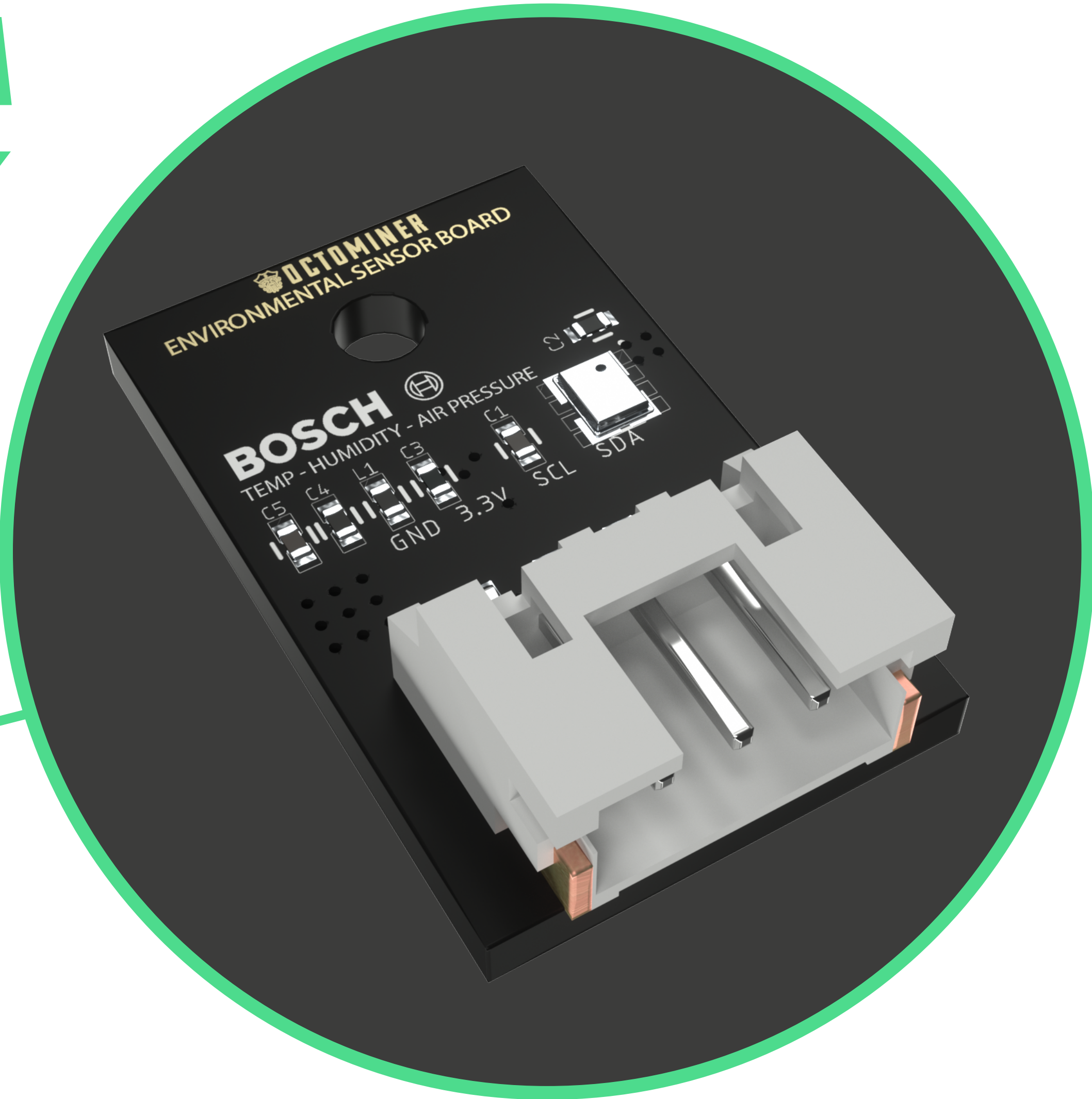
TAKE FULL CONTROL OF YOUR ENVIRONMENT. PRECISE AND FAST ENVIRONMENTAL DATA HELPS KEEP YOUR HARDWARE SAFE FROM EXTREME CONDITIONS AND HELPS MAINTAN OPTIMAL COOLING SETTINGS FOR THE CASE FANS. SAVE ON ELECTRICITY AND KEEP YOUR HARDWARE COOL!

ENVIRONMENTAL SENOSR TECHNICAL SPECIFICATIONS

Operation range (full accuracy)	Pressure: 300 ... 1100 hPa Temperature: -40 ... +85 °C
Humidity sensor	
Response time ($\tau_{63\%}$)	1 s
Accuracy tolerance	±3 % relative humidity
Hysteresis	≤2 % relative humidity
Pressure sensor	
RMS Noise	0.2 Pa (equiv. to 1.7 cm)
Sensitivity Error	±0.25 % (equiv. to 1 m at 400 m height change)
Temperature coefficient offset	±1.5 Pa/K (equiv. to ±12.6 cm at 1 °C temperature change)

OCTOMINER

SMART *HARDWARE* WATCHDOG & FAN CONTROLLER

Full integration with any mining OS allows the smart fan controller & hardware watchdog to automatically regulate the case fan speed based on the environmental readings to keep the GPU temperatures in the optimal zone. It is possible to choose the "optimal temperature" range in the mining OS and set the minimum RPM for the case fans. Or you can choose any RPM and lock the fans into a set RPM using the manual adjustment.
The hardware watchdog will reboot a frozen rig automatically after the microcontroller detects that the rig has frozen and needs a reboot.
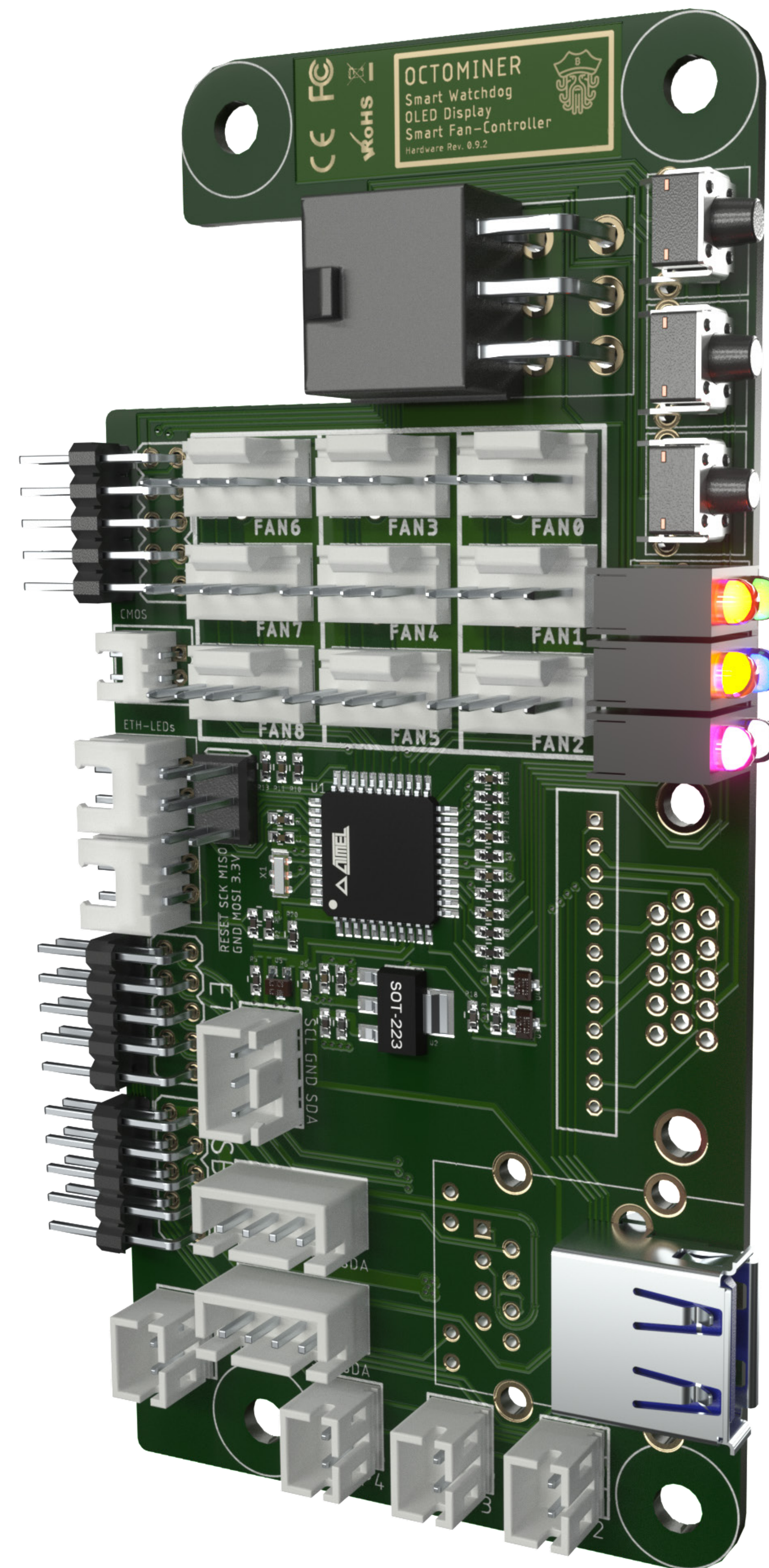
SMART CONFIGURABLE LED's

4 Programmable LED that can help troubleshoot problematic rigs and save time during farm management.
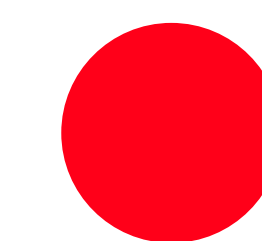
RED - SYSTEM DRIVE ACTIVITY
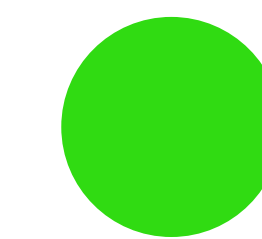
GREEN - SYSTEM POWER STATUS
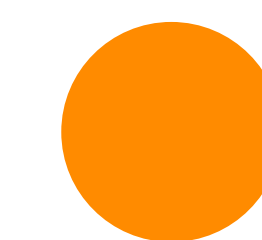
ORANGE - ERROR DEBUG
*The orange LED will slow blink if the system has a larger than normal amount of bad shares and fast blink if there are any serious errors in the mining OS.
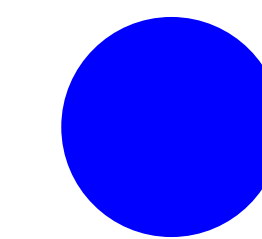
BLUE - HW WATCHDOG HEART BEAT
*Once the system has booted up and the Hardware Watchdog & Smart Fan Controller has established a link with the mining it will have a slow "heat beat" blink to indicate successful link to the OS.
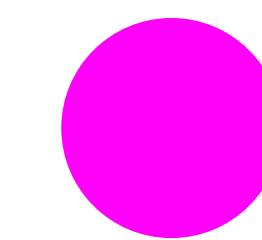
PURPLE - CUSTOM FEATURE
*Possible to program it for any custom feature.
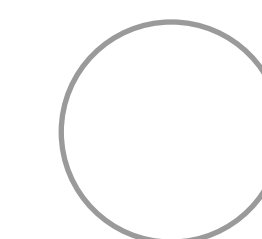
WHITE - FIND RIG
*Turn the bright white LED on from your mining dashboard to help quickly find a rig in your mining farm.

LET OUR SMART HARDWARE *DO THE WORK FOR YOU!*

FULL HARDWARE AND SOFTWARE INTEGRATION

Hive OS

CUDO MINER

minerstat

SimpleMining
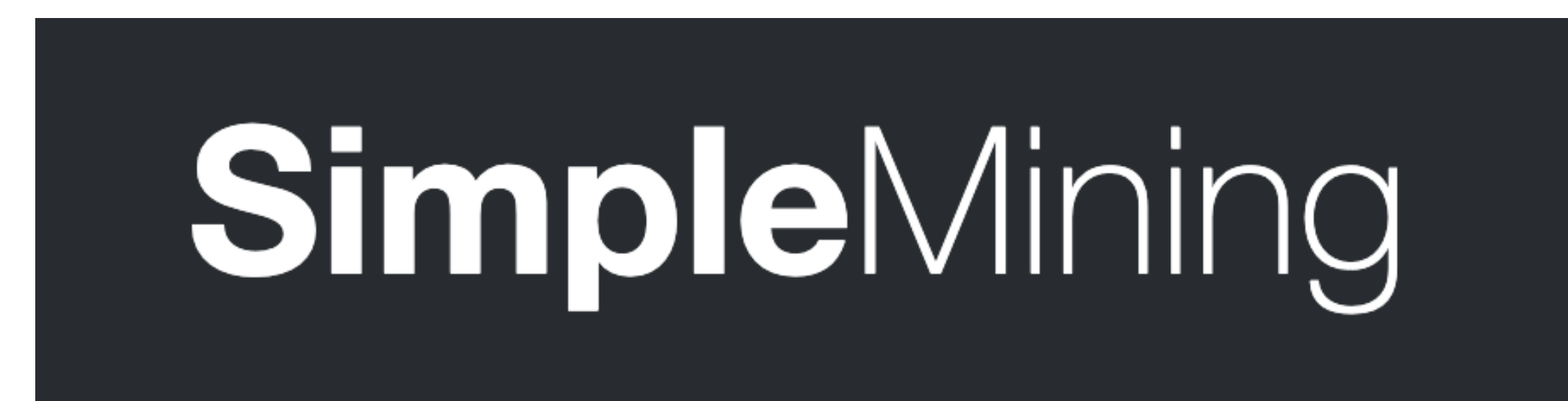
ONE OF A KIND SOFTWARE AND HARDWARE INTEGRATION HELP BOOST PROFITS, MINIMIZE RIG DOWNTIME, SAVE ON ELECTRICITY AND IN GENERAL REDUCES THE TIME AND MANPOWER NEEDED FOR LARGE FARM MANAGEMENT.

* FULL CONTROL OVER CASE FAN SPEED
* AUTOMATIC CASE FAN RPM ADJUSTMENT BASED ON GPU CORE AND MEMORY TEMPERATURES.
* FULL POWER SUPPLY TELEMETRY READOUT AND INTEGRATION
* ACCURTE POWER CONSUMPTION AND VOLTAGE READINGS
* DEBUG LED (4 DIFFERENT COLOR LED'S ON THE FRONT OF THE RIG) TO HELP QUICKLY AND EFFICIENTLY FIND, DETECT AND TROUBLE-SHOOT PROBLEMATIC RIGS.
* FULL ENVIROMENTAL DATA READOUT PER EACH RIG. INPUT TEMPERATURE, EXHAUST, HUMIDITY AND EXHAUST TEMPERATURE.
* OCTOMINER SMART HARDWARE WATCHDOG INTEGRATION DOES AUTOMATIC REBOOTS ON FROZEN AND CRASHED RIGS.
* FRONT PANEL OLED SCREEN INTEGRATION THAT DISPLAYS ALL THE MAJOR DATA FROM THE RIG. HASHRATE, IP, MAC ADDRESS, POWER CONSUMPTION, BAD SHARES, FAN SPEED AND TEMPERATURE

SMART FEATURE INTEGRATION WITH ALL THE MAJOR MINING OS'S

HIVE OS

INTEGRATION EXAMPLE FOR X12ULTRA

* OCTOMINER AutoFan WILL REGULAT THE CASE INPUT FAN SPEED TO KEEP THE GPU CORE AND MEMORY TEMPERATURES IN THE OPTIMAL RANGE. POSSIBLE TO SENT THE MINIMUM AND MAXIMUM SPEED LIMITERS.

* MONITOR THE INDIVIDUAL SPEED OF ALL 5 CASE FANS. DETECT IF ANY OF THEM HAVE FAILED OR ARE OUT OF SPEC.

* MONITOR ACCURATE POWER DRAW FROM THE WALL. OCTOMINER RIGS IN HIVE OS DISPLAY THE ACTUAL POWER DRAW FROM THE WALL, NOT THE ESTIMATED POWER DRAW OF GPUS COMBINED.

FEATURED ON THE OFFICIAL AMD BLOCKCHAIN WEB

Hive OS · OCTOMINER farm · rig539AF3 · OCTOMINER

rig539AF3

X12ULTRA - 12 GPU 3W GPU SPACING(60.96MM) - 5X 140MM 3200RPM FANS
PHOENIX_SPARKPOOL flight sheet
phoenixminer-ver. 5.4c v.PM 5.4c - ETH 100% A 112 ETHASH
ETH ETHEREUM Nanopool (e... sparkpool 367.2 MH

	64°	66°	64°	66°
	40%	40%	37%	37%
	30.65	30.65	30.50	30.50

BOOTED an hour ago   MINER UPTIME 44m 3s   IP 10.0.0.11   0.6-201@210325

1.448 kW

RX 580 × 12

Settings panel:
LED Blink on errors — (on)
Turn White LED on to find rig — (on)
Manual fan speed — 40 %
AutoFan On
Enable fans control. It will keep case intake fans speed the same as max GPU fan speed
Min fan speed — 20 %
Max fan speed — 55 %
Target temperature — 71 °C
Advanced Settings >
Cancel   Apply

Overview   Flight Sheet   Overclocking   Tuning   Stats   Activity   Settings

ETHASH - H/s

TEMP   PL   all

* 00:02.0	HD Graphics 510 · Intel Corporation												75
GPU 0 01:00.0	Radeon RX 580 8192 MB · XFX Micron MT51J256M32 · 113-58085STD1-M80	30.65 MH		64°									75
GPU 1 02:00.0	Radeon RX 580 8192 MB · XFX Micron MT51J256M32 · 113-58085STD1-M80	30.65 MH		66°	40%	74 w	1125	1	755	2150	1	75
GPU 2 03:00.0	Radeon RX 580 8192 MB · XFX SK Hynix H5GQ8H24MJR · 113-58085SHD1-M81	30.50 MH		64°	36%	75 w	1125	1	755	2150	1	75
GPU 3 04:00.0	Radeon RX 580 8192 MB · XFX SK Hynix H5GQ8H24MJR · 113-58085SHD1-M81	30.50 MH		65°	36%	76 w	1125	1	755	2150	1	75
GPU 4 05:00.0	Radeon RX 580 8192 MB · XFX Micron MT51J256M32 · 113-58085STD1-M80	30.64 MH		64°	40%	75 w	1125	1	755	2150	1	75
GPU 5 07:00.0	Radeon RX 580 8192 MB · XFX Micron MT51J256M32 · 113-58085STD1-M80	30.64 MH		65°	34%	75 w	1125	1	755	2150	1	75
GPU 6 08:00.0	Radeon RX 580 8192 MB · XFX SK Hynix H5GQ8H24MJR · 113-58085SHD1-M81	30.50 MH		64°	40%	76 w	1125	1	755	2150	1	75
GPU 7 09:00.0	Radeon RX 580 8192 MB · XFX Micron MT51J256M32 · 113-58085STD1-M80	30.64 MH		64°	40%	74 w	1125	1	755	2150	1	75
GPU 8 0a:00.0	Radeon RX 580 8192 MB · XFX Micron MT51J256M32 · 113-58085STD1-M80	30.64 MH		65°	36%	75 w	1125	1	755	2150	1	75
GPU 9 0b:00.0	Radeon RX 580 8192 MB · XFX Micron MT51J256M32 · 113-58085STD1-M80	30.65 MH		64°	40%	73 w	1125	1	755	2150	1	75
GPU 10 0c:00.0	Radeon RX 580 8192 MB · XFX Micron MT51J256M32 · 113-58085STD1-M80	30.64 MH		65°	40%	75 w	1125	1	755	2150	1	75
GPU 11 0d:00.0	Radeon RX 580 8192 MB · XFX SK Hynix H5GQ8H24MJR · 113-58085SHD1-M81	30.50 MH		64°	40%	77 w	1125	1	755	2150	1	75

EXTERNAL FANS   48%   38%   38%   38%   38%
Intake 24.6° Exhaust 28.1° RIG AIR TEMP, °C
Intake 31.7° Exhaust 49.1° PSU AIR TEMP, °C
1.77 1min   1.86 5min   1.81 15min   LOAD AVERAGE
40° CPU TEMP

26 Gb FREE SPACE   2.1 Gb FREE RAM   1.448 kW CONSUMPTION   0.6-201@210325 OS VERSION   OpenCL 20.30 / 450.66 DRIVERS

Motherboard X12ULTRA OCTOMINER (5.12 01/27/2021)
CPU 2 × Intel(R) Celeron(R) CPU G3900 @ 2.80GHz AES
Disk Model ATA OCTODISK SSD 30G 32.0GB
System type linux
Kernel 5.0.21-201105-hiveos
Remote IP xxx.xx.xxx.xx

MINING RIG SPECIFICATIONS & FEATURES

THE SMARTEST AND MOST RELIABLE GPU MINING RIG ON THE MARKET. BUILT FOR EFFICIENCY AND EASE OF MANAGEMENT. FULL SOFTWARE & HARDWARE INTEGRATION WITH ANY MINING OS (DEBUG LED's, HARDWARE WATCHDOG FOR AUTO REBOOT ON FROZEN RIGS, SMART FAN SPEED CONTROLLER WHICH ADJUSTS THE CASE FAN SPEED TO KEEP GPUs AT OPTIMAL TEMPERATURES). UP TO 10% LOWER POWER CONSUMPTION COMPARED TO OTHER GPU MINING RIGS.

FEATURED ON THE OFFICIAL AMD BLOCKCHAIN WEBSITE:
https://www.amd.com/en/technologies/blockchain

OCTOMINER X12ULTRA SPECS:	COMMON PSU CONFIGURATIONS:
CPU: Intel 1151 socket (UP TO 4 CORE i7)	2x 1200W 94% EFF - **2400W COMBINED**
CHIPSET: INTEL B250	2x 1400W 277V - **2800W COMBINED**
RAM: UP TO 32GB	3x 750W 94 EFF - **2250W COMBINED**
STORAGE: MAX 3X SATA + 1 X mSATA	3X 1200W 94% EFF - **3600W COMBINED**
PSU: MAX 3X HOT SWAP SERVER PSU	3x 1400W 277V - **4200W COMBINED**
PCIe Slots: 12X, MAX 60.96MM GPU WIDTH	
RIG DIMENSIONS: 90.5x17.5x40CM	

CUSTOMISATION POSSIBLE FOR LARGE SCALE BULK ORDERS
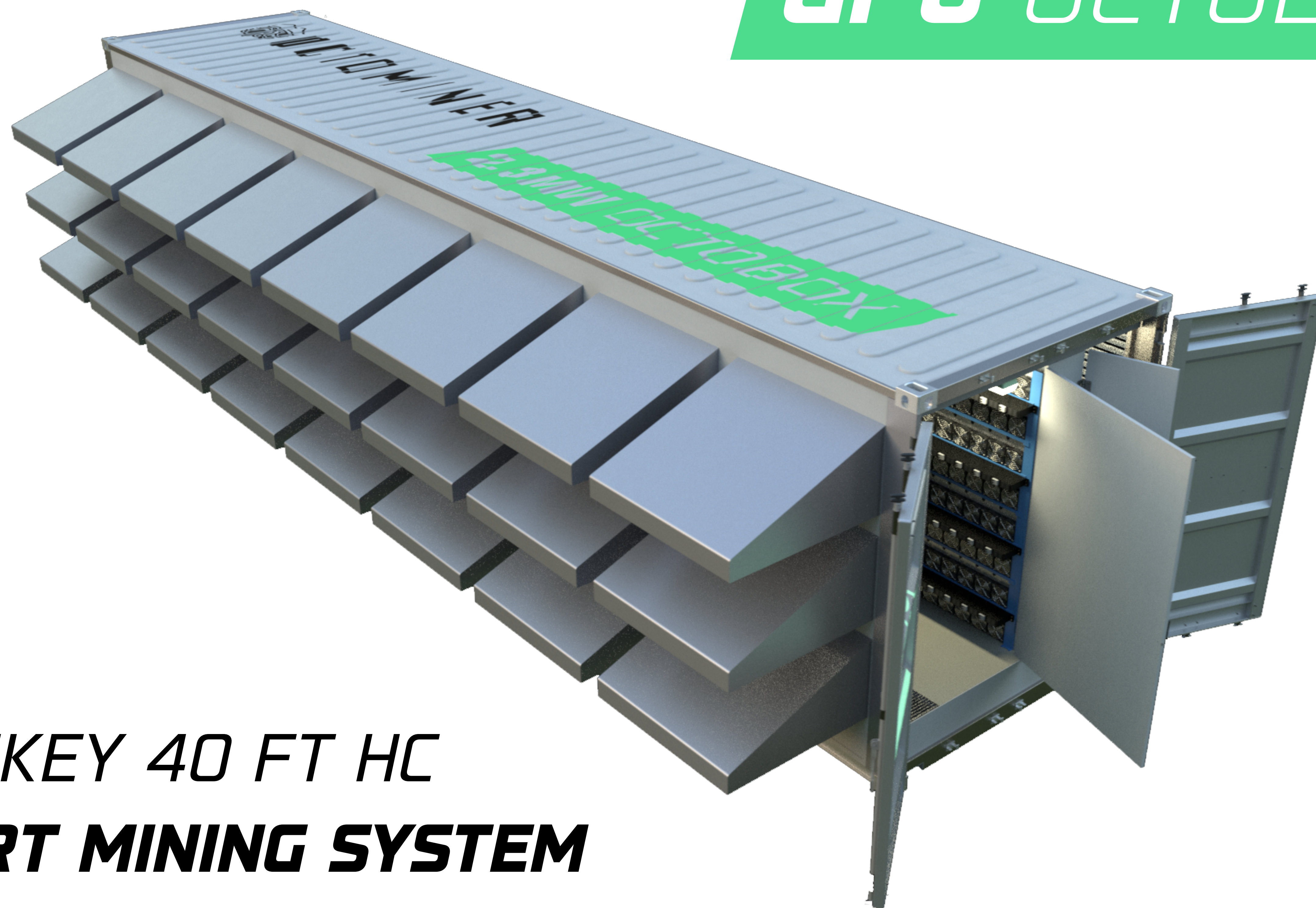
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X12ULTRA
GPU OCTOBOX

TURNKEY 40 FT HC
SMART MINING SYSTEM

ROH9ULTRA OCTOBOX DEPLOYMENT
Gavleborg County, SWEDEN
OCTOMINER

WHO WE ARE & *WHAT WE DO* OCTOMINER

Octominer specialises in designing & manufacturing high-density blockchain & compute hardware, that is equipped with the latest smart management features, offering customers multiple options for their data-centres. **Quality and cost efficiency are our key values.**

Octominer began manufacturing and selling unique riser-free GPU miners towards the end of 2017, making inroads in consumer sales and taking a large share of the retail market. With consistently positive feed-back online, Octominer has built a solid reputation in the close-knit mining community and has become a **market leader in GPU mining hardware.**

With headquarters based in Shenzhen and incorporated in Hong Kong, Octominer is a worldwide company with engineering capabilities in Canada and Germany, along with a regional sales-force in the US. Since the end of 2018, we have focused on building the company brand image with enterprise customers, boasting **over 300,000 GPU's deployed using Octominer hardware** in datacentres worldwide.

Due to these strong relationships with datacentres, Octominer can offer hosting in datacentres with high security and low power costs.
Octominer is an official AMD Blockchain partner, working closely with the management team on opportunities and product development.

AMD

AMD Blockchain Solution Partner

X12ULTRA™

WE MADE THE CHOICE EASY FOR YOU

OCTOMINER