

EHash Project

The 100% Open Miner

@qinfengling Date: 20190330

@qinfengling

- Interests: Open Source Software & Hardware

- Experiences:

2008 - 2013, DVB

- * GUI (Microwindows apps)

- * Driver porting (OSD, OS, Demux, Descramble, Tuner etc)

2013 - 2014, IoT

- * IOT gateway (JenNet-IP, OpenWrt, TL-WR703N porting)

2014 - 2019, Mining Hardware

- * Avalon Miner (OpenWrt, CGMiner, LuCI, AUC, MM, from AvalonMiner 3)

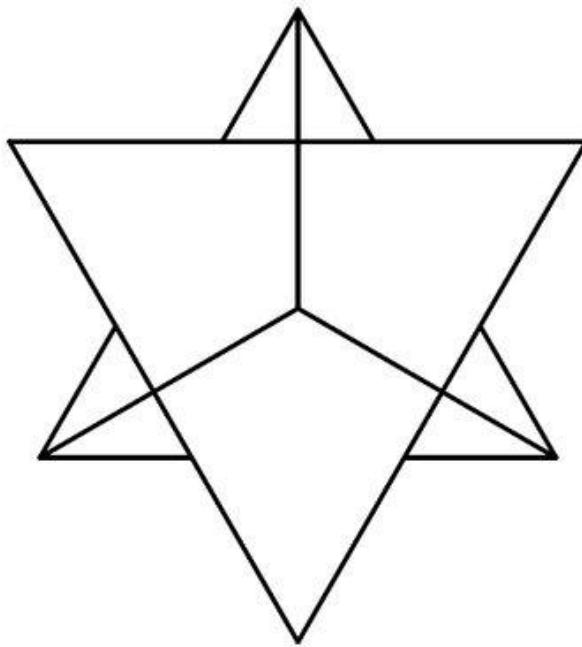
2019 - Now, Blockchain

- * EHash, Wallet, Full Node, Lightning Network, Proof of Existence ...



Canaan

Prove Open EXcellence



POEX.IO



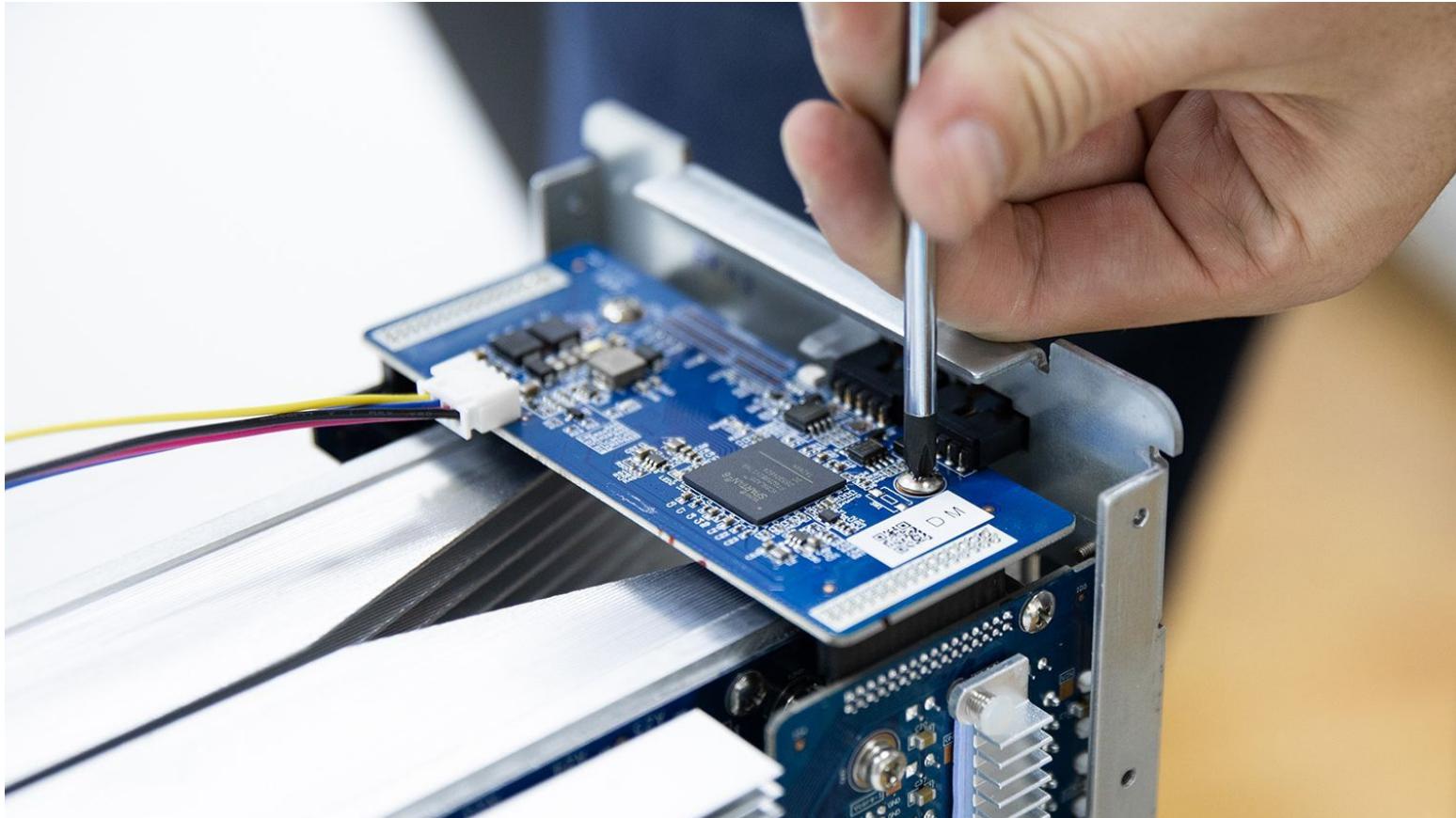
Growing the commons by bringing together
people in **software, hardware & crypto**.

Icarus (First Open FPGA Miner)



Design File: <https://github.com/EHash/Icarus>

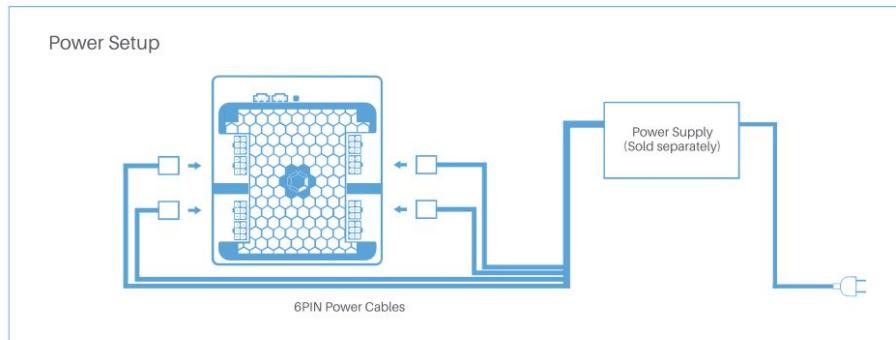
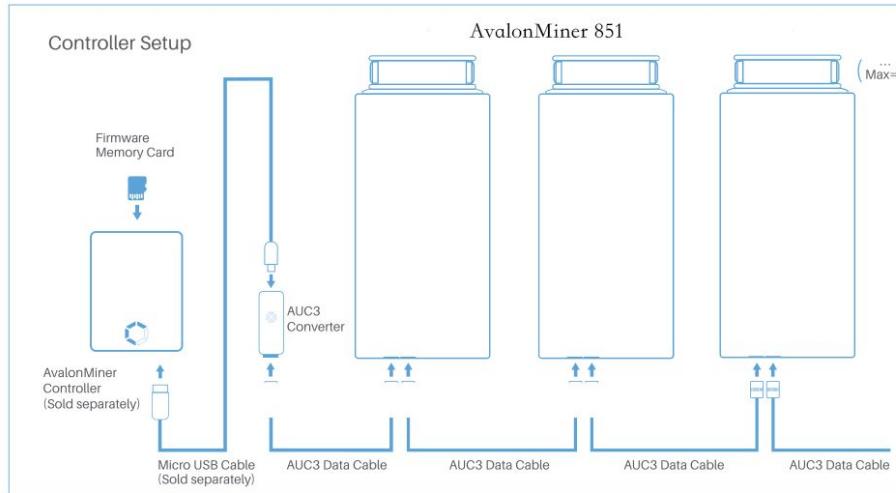
Open Hardware - 851



Design File: <https://github.com/EHash/Open-Hardware-Canaan-A851-A3210M>

Open System Both in HW & SW

AvalonMiner 851



Embedded Open Firmware - AvalonMiner Controller



LuCI

CGMiner

mm-tools

OpenWrt

Embedded Open System - OpenWrt, CGminer, MM-Tools

OpenWrt | OpenWrt Designated Driver 50019 | Load: 0.02 0.03 0.00 Changes: 0

Status System Network Logout

Overview Firewall Routes System Log Kernel Log Processes Realtime Graphs CGMiner Configuration CGMiner API Log CGMiner Status MM Upgrade

No password set!
There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.
[Go to password configuration...](#)

CGMiner Status [Restart CGMiner]

Please visit <https://canaan.io/support> for support.

Summary

Elapsed	GHSav	Accepted	Rejected	NetworkBlocks	BestShare
2m 23s	16911.33	135	4	3	1,425,105

Pools

Pool	URL	StratumActive	User	Status	StratumDifficulty	GetWorks	Accepted	Rejected	Stale	LST	LSD
0	stratum+tcp://stratum.kano.is:3333	true	canaan.3333	Alive	12267	7	135	4	0	Sun Mar 12 11:02:18 2017	12267
1	stratum+tcp://stratum80.kano.is:80	false	canaan.80	Alive	0	1	0	0	0	Never	0
2	stratum+tcp://stratum80.kano.is:81	false	canaan.81	Alive	0	1	0	0	0	Never	0

Avalon Devices

Device	Enabled	Status	GHSav	GHS5s	GHS1m	GHS5m	GHS15m	LastValidWork
ASC0-AV7-0	Y	Alive	6494.68	13090.31	6447.67	2440.02	933.17	Sun Mar 12 11:02:18 2017
ASC1-AV7-1	Y	Alive	10879.63	9083.98	8900.94	3966.49	1550.07	Sun Mar 12 11:02:18 2017

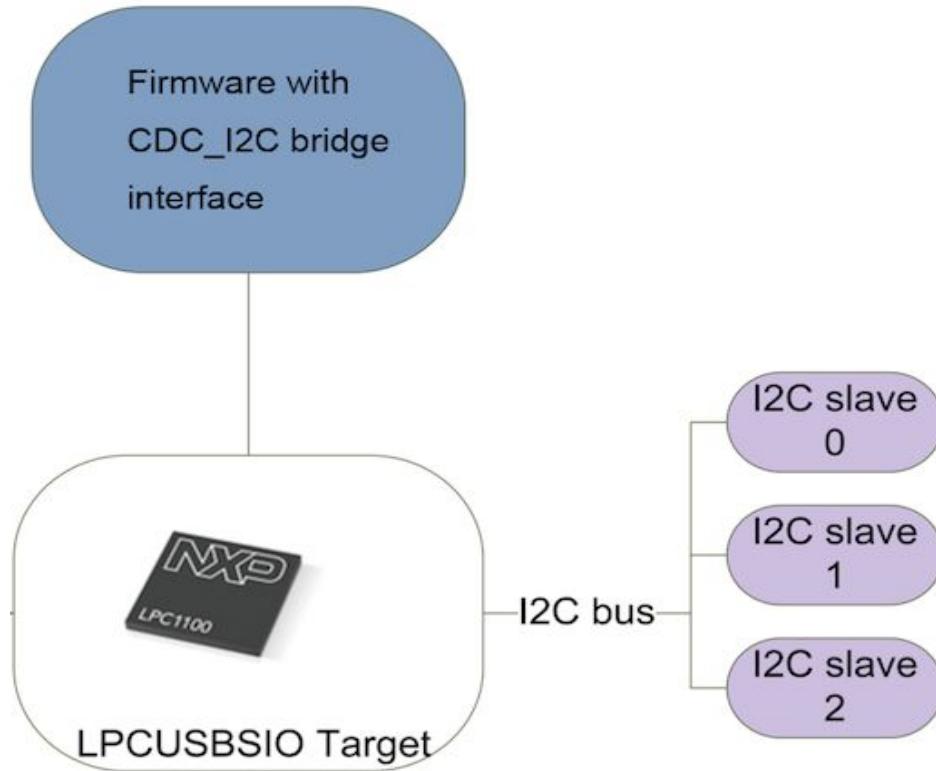
Avalon Devices Status

Indicator	Reboot	Elapsed	Device	MM	DNA	LocalWorks	DH	GHSasc	WU	Temperature(C)	Fan	PG
LED OFF	Reboot	24s	A741S-0-1	7411703-a6ef750	fa46	968	0.000%	6776.98	46559.04	36 / 97	3480RPM / 53%	15
LED OFF	Reboot	2m 26s	A741S-0-2	7411703-a6ef750	c184	6292	0.000%	6959.50	81953.96	35 / 85	5430RPM / 89%	15
LED OFF	Reboot	2m 25s	A741S-1-1	7411703-a6ef750	f223	6336	0.000%	6954.45	79356.37	35 / 85	4380RPM / 69%	15
LED OFF	Reboot	2m 25s	A741S-1-2	7411703-a6ef750	9306	6336	0.000%	6898.69	81863.54	34 / 82	3450RPM / 53%	15

[Change Theme](#)

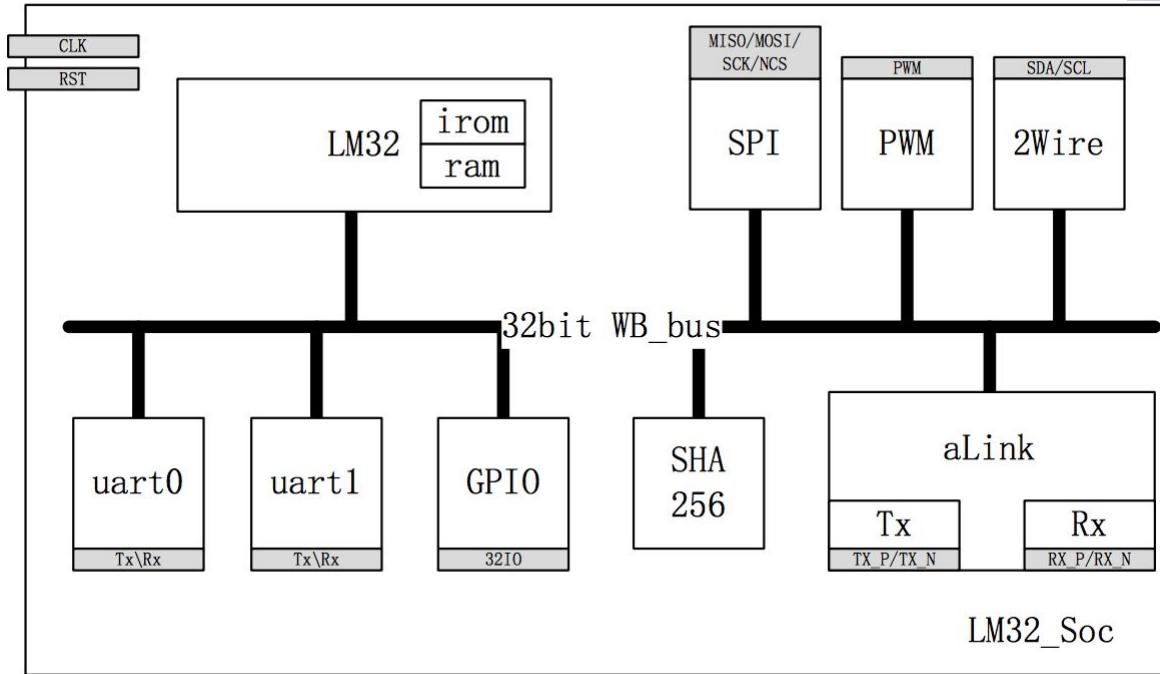
Powered by LuCI trunk-38010-g851a890 Release (git-17.069.16064-ac134a1)

Open Hardware - AUC3



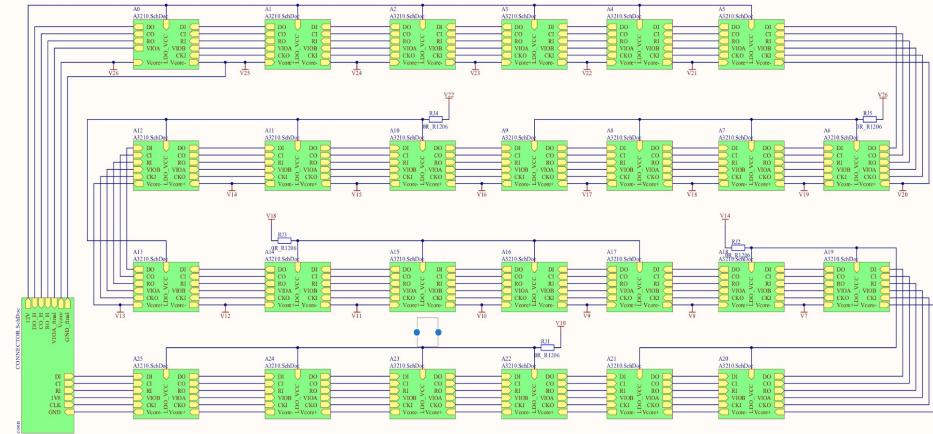
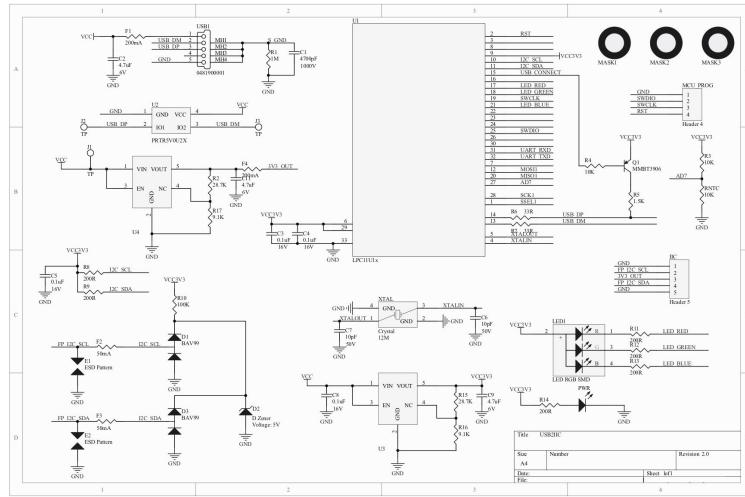
Design File: <https://github.com/EHash/Open-Hardware-Canaan-AUC3>

Open Hardware - MM



Design File: <https://github.com/EHash/Open-Hardware-Canaan-A851-A3210M>

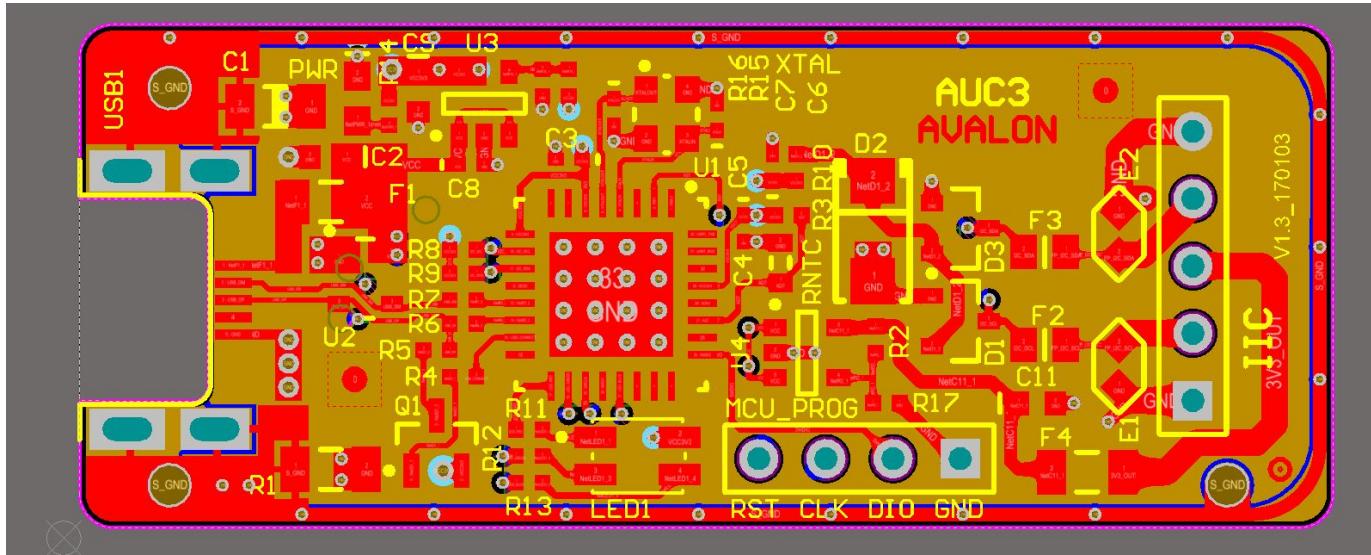
Open Hardware - Schematics



Schematics are all open source !

Design File: <https://github.com/EHash/Open-Hardware-Canaan-A851-A3210M>

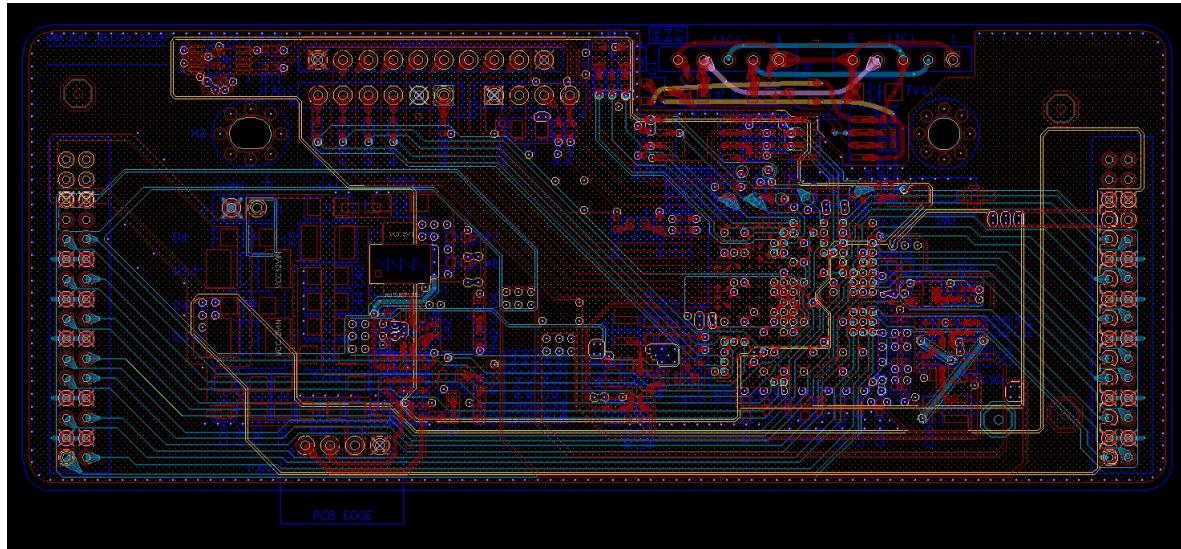
Open Hardware - PCB - AUC3



PCBs are all open source !

Design File: <https://github.com/EHash/Open-Hardware-Canaan-A851-A3210M>

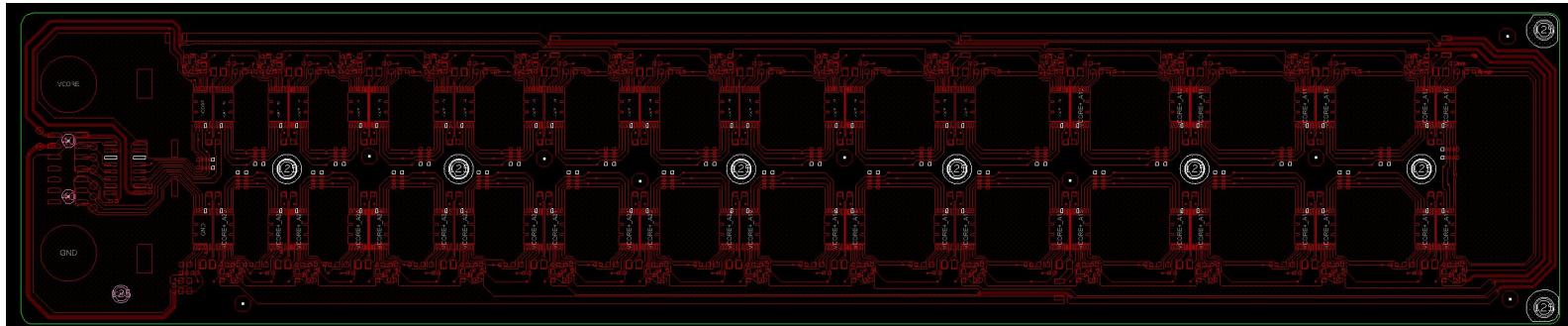
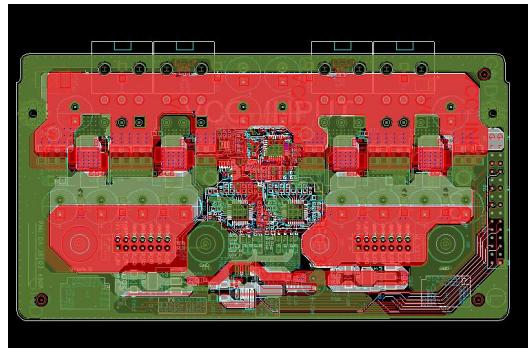
Open Hardware - PCB - CTRL



PCBs are all open source !

Design File: <https://github.com/EHash/Open-Hardware-Canaan-A851-A3210M>

Open Hardware - PCB - PMU & HU



PCBs are all open source !

Design File: <https://github.com/EHash/Open-Hardware-Canaan-A851-A3210M>

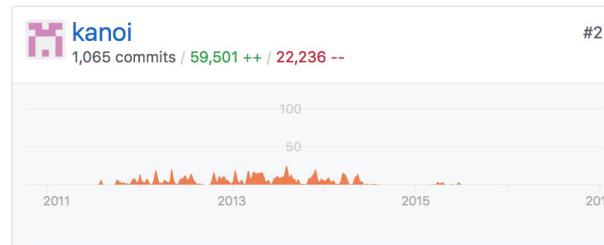
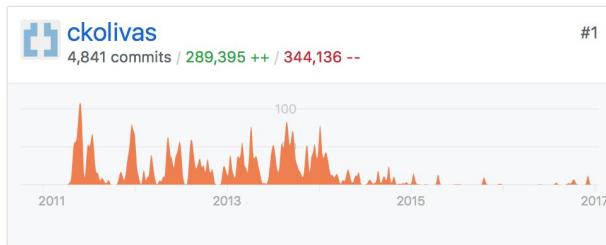
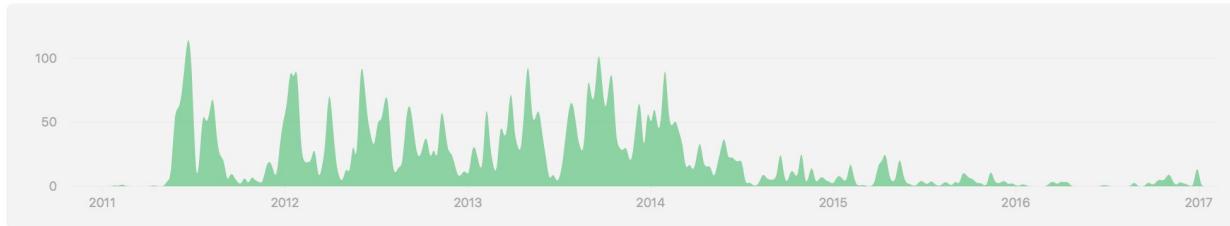
Contribute

To community

Nov 21, 2010 – Mar 4, 2017

Contributions to master, excluding merge commits

Contributions: **Commits** ▾



To EHash.org

← → C GitHub, Inc. [US] | https://github.com/EHash

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EHash

Crypto Future = Open * SW * HW + ASIC

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Find a repository... Type: All Language: All

lopp.net
Forked from jllopp/lopp.net
Personal web site of Jameson Lopp
HTML 147 Unlicense Updated 11 days ago

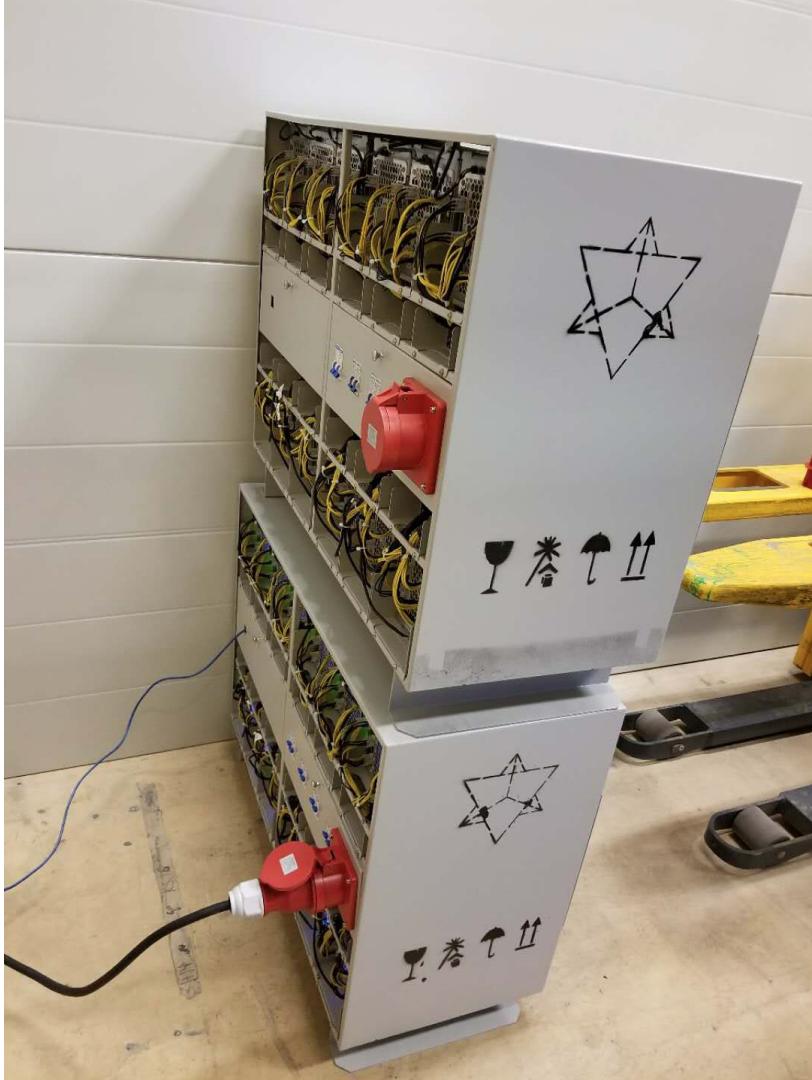
hardcoremining
Forked from poexio/FullNode
Full Node
Ruby 6 CC0-1.0 Updated 13 days ago

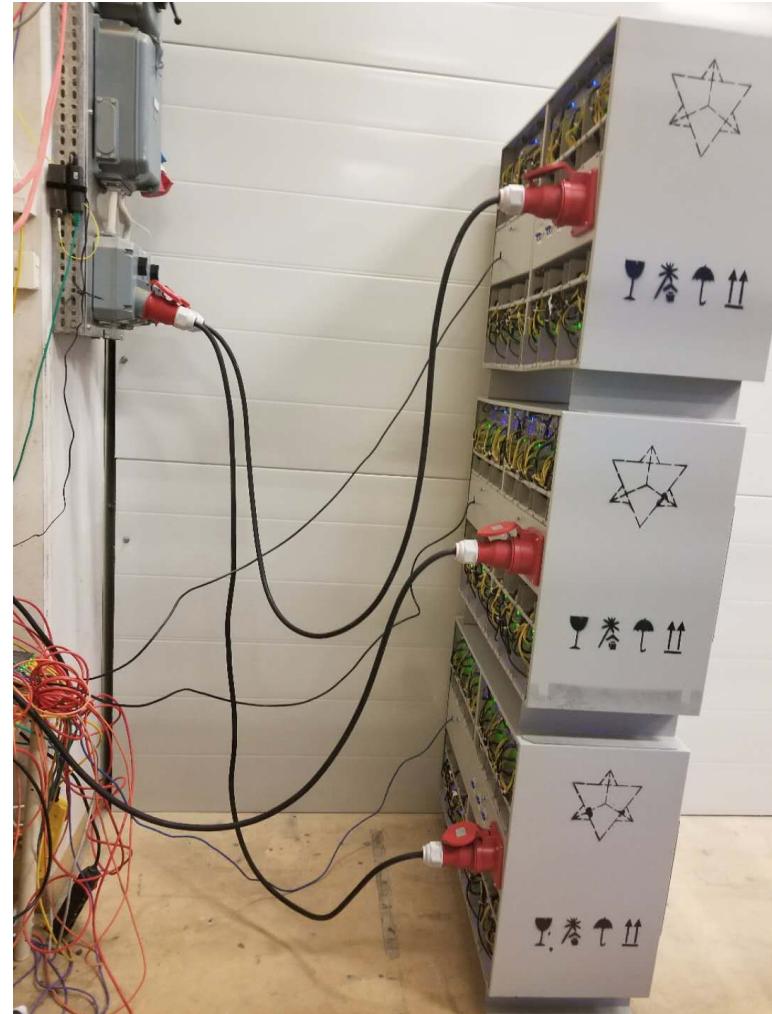
Open-Hardware-Canaan-AUC3
Avalon USB2IIC Converter 3 Design File
Updated 13 days ago

Top languages Ruby C HTML

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This organization has no public members. You must be a member to see who's a part of this organization.

What's the Next ?

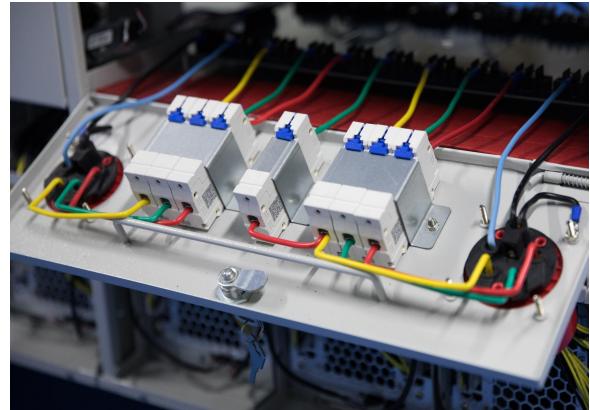




To Next Open Project: Moose

- Industry Standard: **IEC 60309**
- Size for Air Transport: 89cm x 45cm x 72.5cm
- Reduce power supply setup complexity
- Increase power efficiency
- Protect circuit inside
- Boost Setup, RJ45 x 1 and Power supply x 1
- Call for:

**Work together to develop a standard
in Mining Hardware**



WeChat Group



Valid until 4/2 and will update upon joining group