

# The Open Source Autarkic Motherboard

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*Seeing shall be believing: A solar-powered, Raspberry Pi-like Board Design project that runs on 5mW*

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10/02/2023 at 19:54 • 0 comments

[Steve Jobs' 1984 Macintosh, & Why Designing a Sol...](#)**Review of project status (and some history of telecommunications)**

10/01/2023 at 02:48 • 0 comments

## History of Writing, Printing Press, and Internet



### Adapted Pi-Top for solar panel by replacing display cable outlet for DC cable

03/20/2021 at 13:17 • 0 comments

Was able to fit a 5" screen in Pi-Top v3, thus considering use as a cyberdeck instead of main panel.

### Solar powering Ambiq Micro Apollo3

03/17/2021 at 16:14 • 0 comments

Sparkfun Redboard Artemis Nano with Ambiq Micr...



### Powering the 5mW Artemis Nano fully on a 10.5 Phillips LED

03/09/2021 at 05:04 • 0 comments

Got my Artemis Nano to power on completely with a 10.5W LED, far less than the 45W Cowboy Studio CFL I was using with the 2V, 160mAh panel in my previous log . Since the bluetooth LED is is blinking, it must be using around 5mW, which is probably not very efficient, although it is the only way I can connect [using an Adafruit Universal USB / DC / Solar Lithium Ion/Polymer charger w/ TI BQ24074) the 5W panel to the USB-C input of the Artemis Nano at the moment. Some efficiency loss is likely, since it travels through the 500mA boost converter.



10.5 W Philips LED powering 96mhz Sparkfun Redb...



Later I put the lampshade back on the Philips and was able to get a red LEDd, but it took a while for current to flow through the entire circuit. With some efficiency improvements (i.e soldering the 500mV boost and panel placement), it is very likely that the Artemis Nano can be powered in a more ambient condition (i.e not a bulb directly on the panel as in the above photo.)

I'll also try my Powerfilm Dev-in-Basic w/ BQ25570 development kit sometime.

## 85W Cowboy Studio CFL & Artemis Nano comparison to 3.7V battery

03/05/2021 at 22:51 • 0 comments

Sparkfun Artemis Nano LED Powered by DFRobot S...



