

How do I Power my Motherboard?

From the looks of the motherboard, it appears to have two outlets/inlets of power, which are the P4 MB connector and a DC power jack. My first thought is to find a power bank of some sort that is relatively flat that has a P4 MB connector to power the motherboard (and possibly GPU) and use the DC jack to charge the battery through the motherboard.

Are there any 'non-standard' motherboards with DC input?

There are also plenty of 'non-standard' motherboards with DC input. Usually Mini-ITX designed for automotive or other purposes. If you are just after a desktop PC that you can power off the grid, there are plenty of heavy duty power banks on the market now. Bit expensive though.

How do I charge a P4 MB battery?

Another possible option is using a Pico-PSU and connecting the 24ATX end and plugging it into a battery and then plugging one of the modular cords into the P4 MB (and maybe GPU, once again) and using the DC jack to charge, like the earlier solution. However I still can't find any battery that has a 24ATX connector either.

Do I need a 5V or 3.3V motherboard?

Particularly if you are going all NVMe storage there is no need for internal 5V and 3.3V. GPUs run on only 12V if you are looking at getting a GPU. You could actually adopt one of the few available 12V0 motherboards. There are also plenty of 'non-standard' motherboards with DC input. Usually Mini-ITX designed for automotive or other purposes.

What is a Mini-ITX power bank?

Usually Mini-ITX designed for automotive or other purposes. If you are just after a desktop PC that you can power off the grid, there are plenty of heavy duty power banks on the market now. Bit expensive though. Then again, so is a pile of 18650 cells with enough power to run a desktop for more than a few minutes.

Are there any heavy duty power banks?

If you are just after a desktop PC that you can power off the grid, there are plenty of heavy duty power banks on the market now. Bit expensive though. Then again, so is a pile of 18650 cells with enough power to run a desktop for more than a few minutes. Just remember, you are only likely to get one or two major upgrades...

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I would highly recommend using the most power efficient components possible, but from your post it looks like you're using old components you already have. If starting from scratch, I'd look into ...

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I have a motherboard with a barrel-shaped rechargeable CMOS battery. The board has the four-pin external battery connector, and I'd like to use that and snip off the barrel ...

Hey all, I stumbled onto the thread, looking for data on power consumption for the Pi 5. I've been building a portable power pack unit in the hopes of making a raspberry pi based cyberdeck. ...

If the board does not have an external battery connector, you can try connecting an external battery pack (for example, a 3 x AA holder containing alkaline batteries) to the ...

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