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r/pikvm



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[Log In](#)r/pikvm • 2 yr. ago
Restinpieces123

Trying to figure out if I can use the ATX board without pikvm to turn my computer on.

I am trying to turn my computer on remotely from a full shutdown in a relatively cheap and easy way. Would I be able to use the ATX board for this or would I need the pikvm as well? Could I use something like a pico connected to my other computer that's always on to do this? Any advice is appreciated.



4



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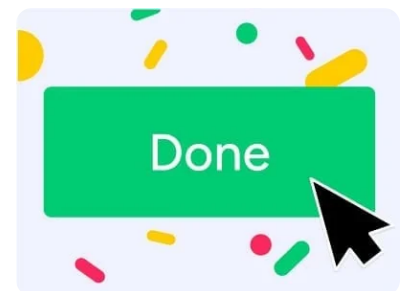
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Bobbler23 • 2y ago • Edited 2y ago

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premise is that all that a modern motherboard needs is a short of a couple of pins to tell it to turn on. GPIO on the pi/pico acts as a switch to just that - you go via the optocoupler which isolates the two electrically - so no chance of passing current between the two.

You can then either send the pi a command to do it via ssh - which would be to few lines of code to tell it to activate pin X to complete the circuit. Or if you want to get fancy, you can host a simple web interface with a couple of buttons on it to the job - even then shortcut on your web browser can send the command too from any machine that can talk to it on your network. Or use a wget to the URL.

Additionally you can program a short press and also a longer one to "force" off if you get a full lock up.

Example of what you can use to do this - <https://www.ebay.co.uk/itm/172833416321> - signal switch on from the pi end, which tells the relay the other side to activate, essentially acting the same as the power button on the front of your computer case.

I did this same thing just with a 4 way relay board to switch on my ITX boxes and pair of Mac minis as the PiKVM only does one.

⊖ ↑ 3 ↓ ○ Reply ...



Restinpieces123 OP • 2y ago

Wow, this is a fantastic response! Thank you so much! I picked up a pico H and the octocoupler. I should be able to figure out the programing. Thanks again!

↑ 2 ↓ ○ Reply ...



Restinpieces123 OP • 2y ago

Hi again. I am having a little trouble getting this to work. I have not done much with electrical and Raspberry Pi's so this is new to me.

Using [this diagram](#) and [this pinout](#) I connected VCC on the Optocoupler to the 3v3(out) on the Pico, Ground to Ground, and Out to one of the GPIO pins on the Pico but nothing seems to happen.

This is currently my code. I can make the internal LED blink but the light on the Optocoupler does not.

```
import machine, time
from machine import Pin
led = Pin(22, Pin.OUT)

led.toggle()
time.sleep_ms(500)
led.toggle()
```

Thanks again.

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ground to the pc power pins.

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wamo90 • 2y ago • Edited 2y ago

There's a simpler, less elegant solution that'd cost about \$7 and take 3 minutes to setup:

- 1.) Buy a smart plug. I've had good luck with the Kasa brand, or Hue but they're way expensive.
- 2.) Change your motherboard bios settings so the PC turns on when power is restored after a power loss. This setting will vary by motherboard manufacturer, but most modern motherboards support it (assuming it's a desktop, no idea about laptops). Generic guide here: <https://www.wintips.org/setup-computer-to-auto-power-on-after-power-outage/>
- 3.) Plug PC into smart outlet.
- 4.) Any time you need to power on PC turn smart outlet off then back on.

I've been using this as my "remote on" approach for my desktop for years and had no issues.

⊖ ↑ 4 ↓ ○ Reply ...



alirz • 2y ago

This is assuming you shutdown your computer, which no one normally does and nor should they. Second if your computer goes into standby mode there isn't anything you can do with a smart switch except a hard power off/ on which is not good in this case. Best to have this along with wake on lan or even wake on wan setup

↑ -1 ↓ ○ Reply ...



[deleted] • 2y ago

I use a fingerbot like this one to turn on my pc remotely https://www.amazon.com/MoesGo-Generation-Bluetooth-Fingerbot-Compatible/dp/B0B97G3B8G/ref=sr_1_1_sspa?crid=VXSR9SR3QRZA&keywords=fingerbot&qid=1688610458&srefix=fingerbot%2Caps%2C140&sr=8-1-spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&psc=1

-You can find it half the price on aliexpress

-You'll need to buy the smarthub as well

It will let you turn on the pc using an app on your phone just like a smartplug.

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VettedBot • 2y ago

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- Easy installation process (backed by 1 comment)
- Compatible with smart home systems (backed by 1 comment)

Users disliked:

- Device fails to connect to wi-fi or bluetooth (backed by 4 comments)
- Confusing and poorly designed app (backed by 2 comments)
- Manual and instructions are lacking (backed by 2 comments)

This message was generated by a (very smart) bot. If you found it helpful, let us know with an upvote and a “good bot!” reply and please feel free to provide feedback on how it can be improved.

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r/retrocomputing • 6 mo. ago

ATX to AT power supply conversion

8 upvotes · 7 comments



r/IKEApets • 5 mo. ago

My computer isn't working for some reason, did I put it together correctly?

454 upvotes · 39 comments



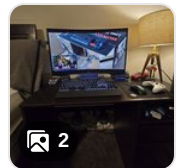
r/AverageBattlestations • 8 mo. ago

Pretty happy with what I built, a pretty entry level gaming PC that looks simple and neat.

63 upvotes · 19 comments



r/AverageBattlestations • 6 mo. ago

I need an actual PC

109 upvotes · 24 comments

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107 upvotes · 12 comments



r/retrocomputing • 3 mo. ago

What is this computer?

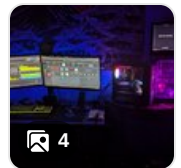


181 upvotes · 21 comments



r/HomeLabPorn • 9 mo. ago

My home lab. I really like building gaming PCs with toys in them.



83 upvotes · 8 comments



r/shittybattlestations • 7 mo. ago

When one PSU isn't enough



87 upvotes · 26 comments



r/Minimal_Setups • 6 mo. ago

My first computer



286 upvotes · 12 comments



r/dosgaming • 21 days ago

i picked up this PC for \$55 and i want to turn it into a retrogaming pc



56 upvotes · 44 comments



r/e28 • 14 days ago

I've built an upgraded On-Board Computer



107 upvotes · 35 comments

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26 upvotes · 14 comments



r/pihole • 2 yr. ago

Recently got the idea to flash OpenWRT onto my router, BUT I also want to set up a pi. What is the order of operations here and whats the best way to achieve this?

12 upvotes · 28 comments



r/retrocomputing • 8 days ago

Help with dumb terminal with weird port?

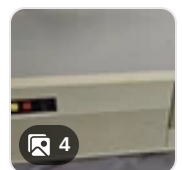


34 upvotes · 28 comments



r/vintagecomputing • 4 days ago

Need help identifying a computer.



81 upvotes · 42 comments



r/laptops • 2 yr. ago

How can I get this laptop to work again?



3 upvotes · 7 comments



r/GamingPCBuildHelp • 2 yr. ago

What can I do to install an NVMe M.2 SSD into my computer?

1 upvote · 7 comments



r/computers • 2 yr. ago

Is there an HDMI switcher I can use that will allow me to INSTANTLY switch sources?

3 upvotes · 4 comments



r/yuzu • 2 yr. ago

Is there a way to transfer my TOTK save data from my switch into an emulator?

1 upvote · 1 comment



r/gpdwin • 2 yr. ago

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r/pcsetup • 5 mo. ago

Finally got a pc!

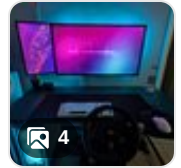
411 upvotes · 28 comments



r/AverageBattlestations • 3 mo. ago

Upgraded my peripherals. Awaiting a keyboard tray for the Sim setup

36 upvotes · 7 comments



r/pcmasterrace • 2 yr. ago

NVME SSD From My ASUS ROG Laptop Will Not Work in My Desktop

1 upvote · 3 comments



r/Minimal_Setups • 6 mo. ago

Just a wireless monitor missing...

198 upvotes · 6 comments



r/LinuxCirclejerk • 24 days ago

What distro should I install on this guy?

86 upvotes · 14 comments

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