



APU4 can't read SIM card

mcjamez · Sep 9th 2021



mcjamez

[Beginner]

Posts:

Sep 9th 2021

I have 2 APU4D4 's and have installed Quectel EC25 modems in mPCIe slot 2. I'm running Ubuntu server 20.04 and I've also tried DD-WRT. In both OS's the modem can't read the SIM card. I've tried both slots with no luck. I took the modem out and put it in a mPCIe to USB adapter that had a built in SIM card slot and everything worked perfectly, I was able to read the SIM and attach to the cellular network.

In looking at the schematics it appears that there is a SIM switch between the SIM sockets and the mPCIe slots. I wonder if that is the source of the problem?

Any thoughts on trouble shooting my 2 APU4D4 boards that act the same?

-James



miczyg

[Beginner]

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Hi James,

Please refer which slots may be used for USB modems with SIM card slots:

<https://github.com/pcengines/a...ties.md#apu4a-apu4b-apu4c>

(https://github.com/pcengines/apu2-documentation/blob/master/docs/APU_mPCIe_capabilities.md#apu4a-apu4b-apu4c)

If you put the Quectel EC25 to mPCIe1 slot it won't work with SMI slots on the board. Regarding the SIM swap pin, it simply selects the SIM switch behavior. By default SISMWAP pin is in low state which means the SIM cards are "crossed":

- mPCIe2 slot is connected to SIM2
- mSATA slot is connected to SIM1

So basically if you have tried both SIM slots, one of two should work for mPCIe2 slot. We have some Quectel EC25 I believe and may test something out.

Best regards,

Michał Żygowski

Firmware Engineer

GPG: 6B5BA214D21FCEB2

<https://3mdeb.com> (<https://3mdeb.com>) | @3mdeb_com



computersalat

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Apr 21st 2022

Code



```

1. I am having the same problem after a firmware upgrade
2.
3. mmcli -m 0
4. -----
5. General | dbus path: /org/freedesktop/ModemManager1/Modem/0
6.         | device id: c233bea49daf74b6a7d142455188d4790e530ac3

```

I tried randomly different firmware version without success.
Any idea what I can do ?

