

I encountered a hardware issue in the provided AID-IOT kit's Simcom A7672S module. It was quite challenging and took more time than expected due to the module not detecting the SIM card. Each time I sent the **AT+CPIN?** command, it responded with "**SIM REMOVED**".

I was able to mention this problem to faculties or in whatsapp group just after getting error, but the main reason why not asked is because I find that it responded **OK** when I send **AT** Command to it, which means that module is working and the another issue maybe the sim card I am using is not supported (as faculty mentioned in lecture and even according to A7672S's datasheet).

I tried multiple codes and uploaded them to different microcontrollers, but nothing worked. Then, I began inspecting hardware's each component using my soldering station's magnifying glass and discovered that two pads of the transient **voltage suppression (TVS)** diode (**ESDA6V1-5SC6**)—specifically, **IO2** and **GND** - were soldered together, causing the SIM error. Here are the attached images showing the issue before and after the fix.

