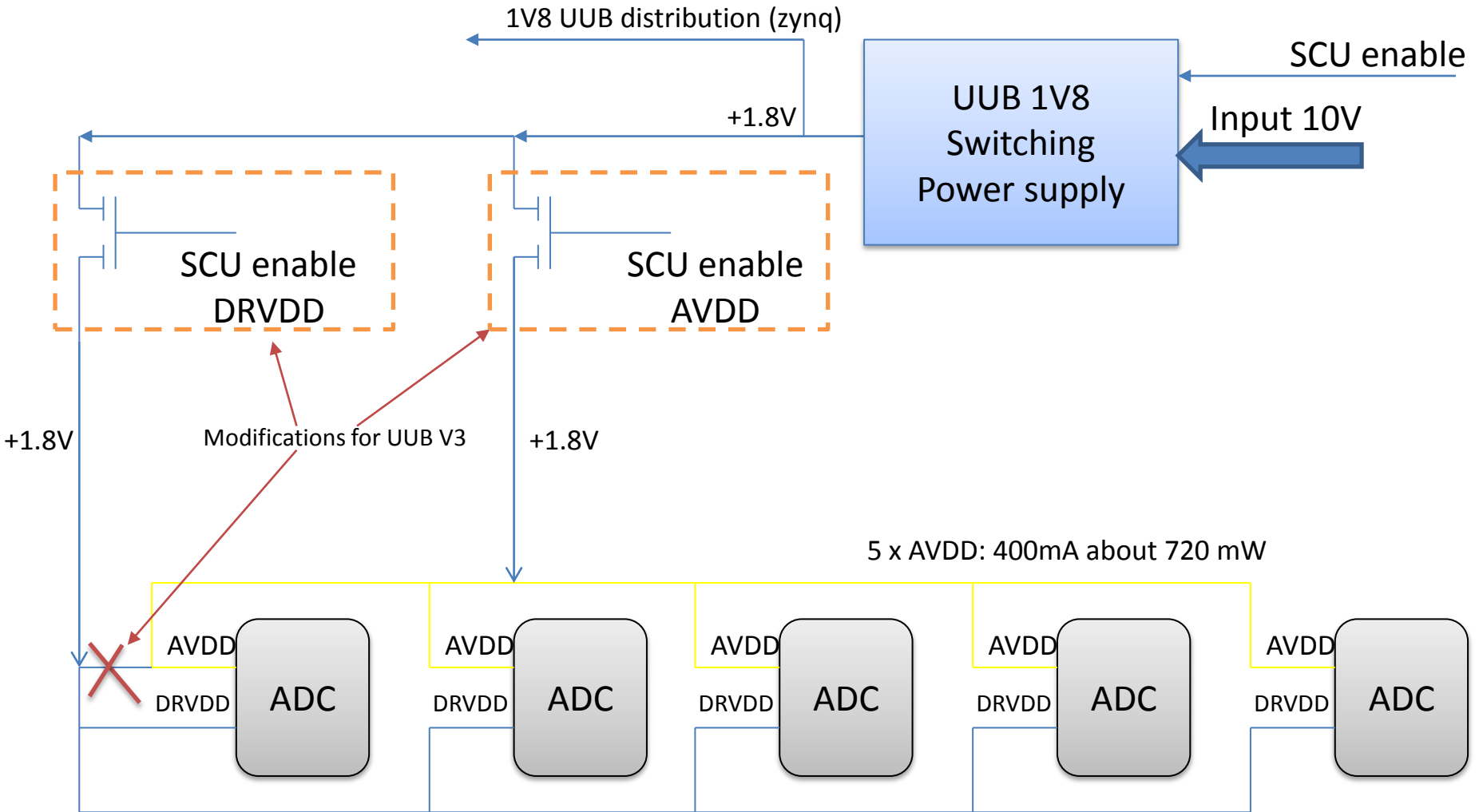


AD9628 power supply

Switch on/off by mosfet



Conclusions

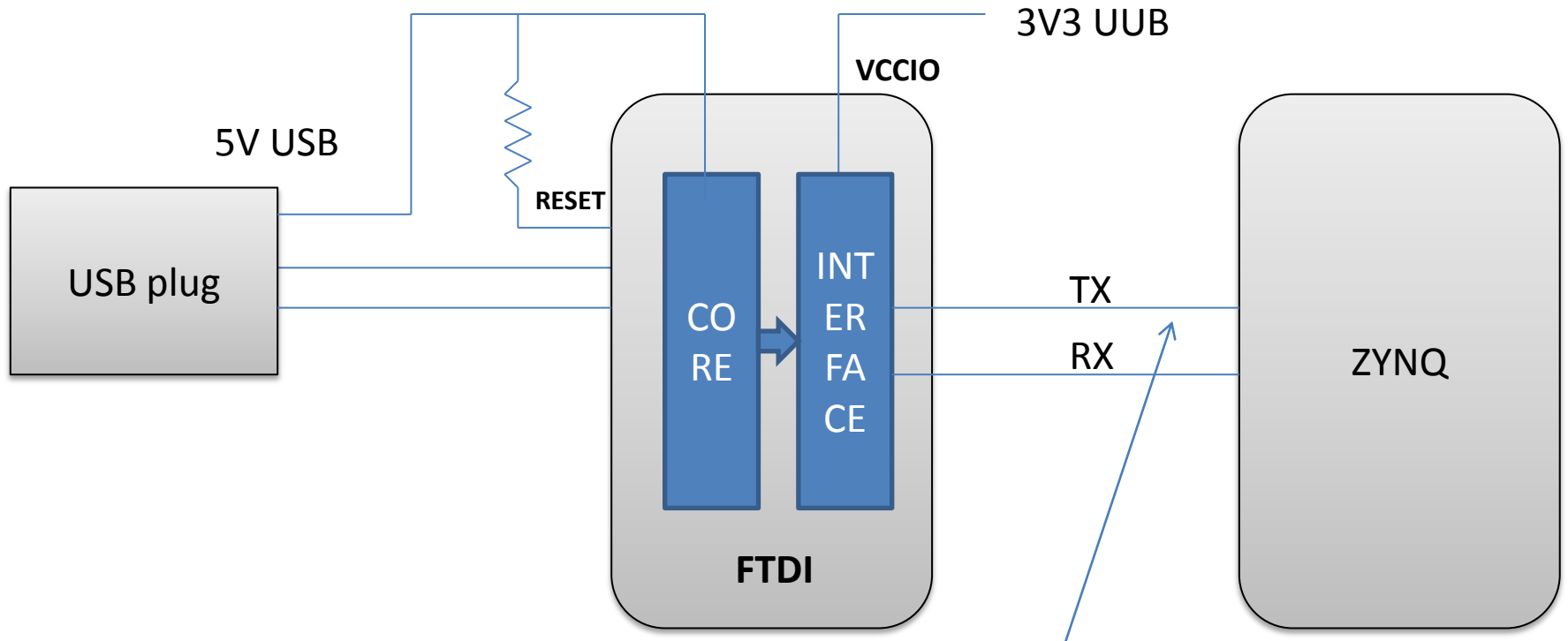
Random issue: ADC get stuck at power up

To solve the issue is needed:

- separated sources for AVDD and DRVDD pins of ADC (AD9628) for power supplies
- enable/disable by SCU of the power supply at least on AVDD

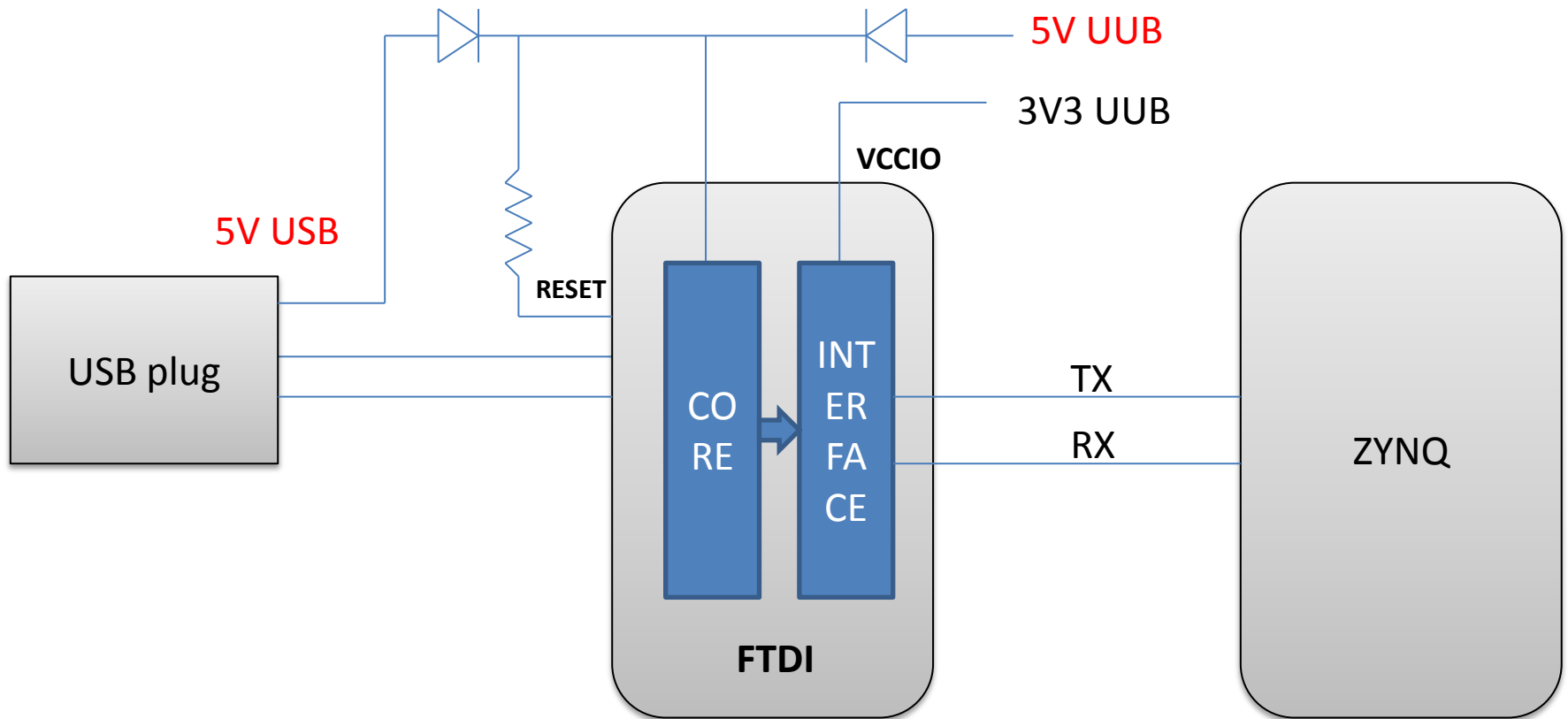
The power up initialization (by SCU) will take care to release the power supply with correct timing. DRVDD 1V8 before the AVDD

USB issue. UUB's circuit



Without USB plug
Unkonwn status
UBOOT detects key pressed at boot

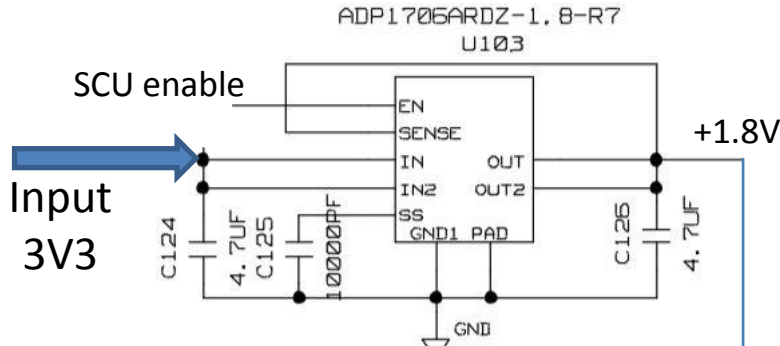
USB issue. Solution in Lecce



Backup slides

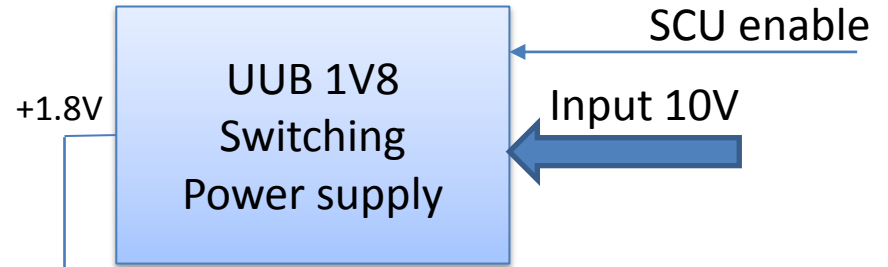
AD9628 power supply

Linear regulator solution



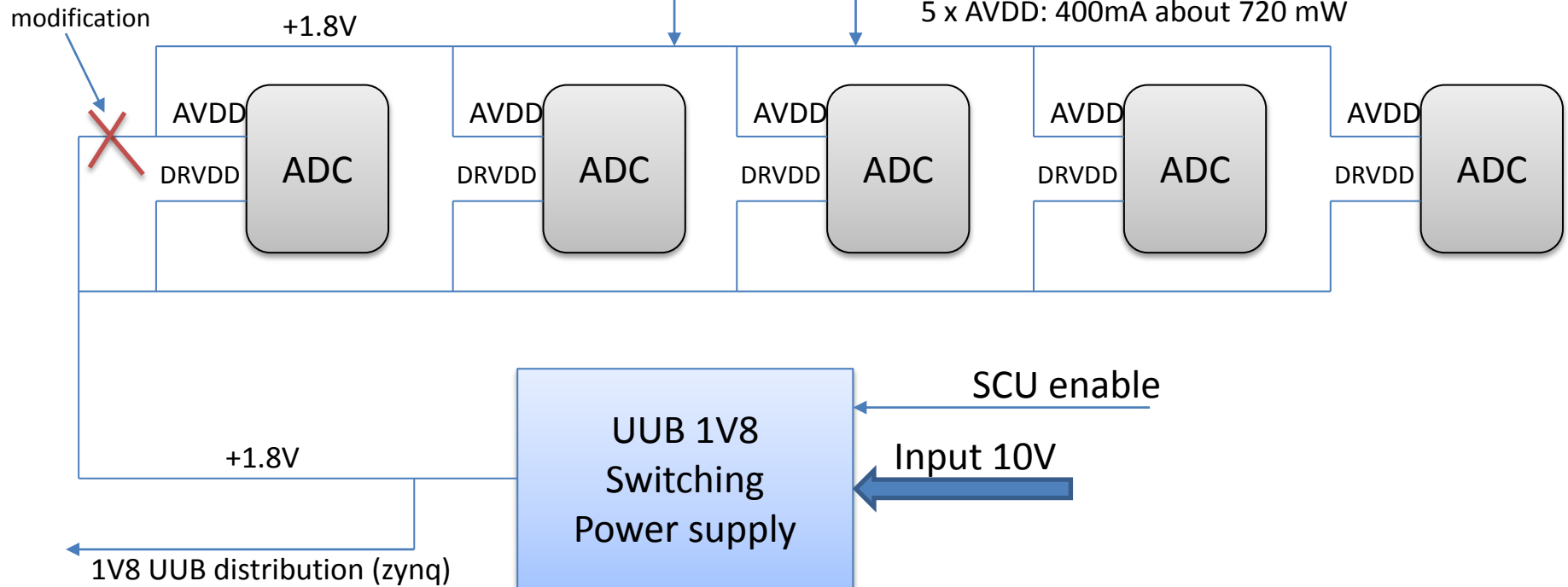
CONVERSION POWER CONSUPTION: 600 mW

Switching dc/dc solution



CONVERSION POWER CONSUPTION: 50 mW

5 x AVDD: 400mA about 720 mW



Conclusions

Random issue: ADC get stuck

To solve the issue is needed:

- separated sources for AVDD and DRVDD pins of ADC (AD9628) for power supplies
- enable/disable by SCU of the power supply AVDD

The power up initialization (by SCU) will take care to release the power supply with correct timing. DRVDD 1V8 before the AVDD

Analog device's power supply

