For low power consumption, we recommend I2C bus pullup to a controllable power source.

Recommend ADC read circute:

GPIOx = LOW: V(ADC) = R8*V(x)/(R6+R8)
GPIOx = HIGH: V(ADC) = V(x)

Recommend Vext control circute:

GPIOx = LOW: Vext -- ON
GPIOx = HIGH: Vext -- OFF

System Hanging
GPIO 0 = 1; RESET = 0
RESET = 0 → 1
Run from user code in FLASH
Access Boot Loader mode
GPIO 0 = 0 → RESET = 0 → RESET = 1 → GPIO 0 = 1
GPIO 0 and RESET must have a pull up resistance