

CircuitCheck – Design Analysis Report

ERROR: Floating RESET pin

RESET net exists but no pull-up resistor detected.

Fix: Add a $10\text{k}\Omega$ pull-up resistor from RESET to VCC.

ERROR: Missing I₂C pull-ups

I₂C bus requires pull-up resistors on SDA and SCL.

Fix: Add $4.7\text{k}\Omega$ – $10\text{k}\Omega$ pull-up resistors to VCC.

WARNING: Missing decoupling capacitor

No decoupling capacitor detected near MCU power pins.

Fix: Add a $0.1\mu\text{F}$ ceramic capacitor close to each VCC pin.