

CircuitCheck – Design Analysis Report

ERROR: Floating RESET pin

RESET net exists but no pull-up resistor detected.

Fix: Add a 10k Ω pull-up resistor from RESET to VCC.

ERROR: Missing I2C pull-ups

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

Fix: Add 4.7k Ω –10k Ω pull-up resistors to VCC.

WARNING: Missing decoupling capacitor

No decoupling capacitor detected near MCU power pins.

Fix: Add a 0.1 μ F ceramic capacitor close to each VCC pin.