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RF_CONN

The diagram illustrates the RF connection for the RF-Module. The module is represented by a blue box labeled 'RF-Module' with a connector 'J81' on the left. The connector has 8 pins. The connections are as follows:

- Pin 1: CE
- Pin 3: SCK
- Pin 7: MISO
- Pin 2: CSN
- Pin 4: MOSI
- Pin 6: NRF_IRQ
- Pin 8: V3D3

Additional components and connections:

- A 16V capacitor, C83 (0.1uF), is connected between the CSN/MOSI line and ground.
- A 10V capacitor, C84 (10uF), is connected between V3D3 and ground.

SWITCH

The diagram illustrates a 3-to-1 multiplexer circuit. It consists of three 74VHC14 inverters (S81, S82, S83) and two 74VHC04 inverters (S85, S84). The inputs to the multiplexer are PB1, PB3, and PA8, each connected to a 10K resistor (R91, R92, R93) and a 1% resistor (R0603). The outputs of the multiplexer are connected to ADC1_2, ADC1_0, ADC1_3, and ADC1_1. The MODE signal is connected to the inputs of the 74VHC14 inverters. The 74VHC04 inverters are used to invert the MODE signal and its complement. The circuit is powered by V3D3 and ground.

Left

Right

Power

The power supply circuit for the BQ76940 evaluation board is shown. It includes a battery (BAT) connected to a switch (S86) and a diode (C88) for VBAT. A voltage divider (R95, R96) and a capacitor (C91) are used for BAT_DET. The main power path goes through a diode (C87) and a resistor (R94) to VBUS. A voltage divider (R97, R98) and a capacitor (C92) are used for VSD0. The output is connected to V3D3 through a capacitor (C90).

