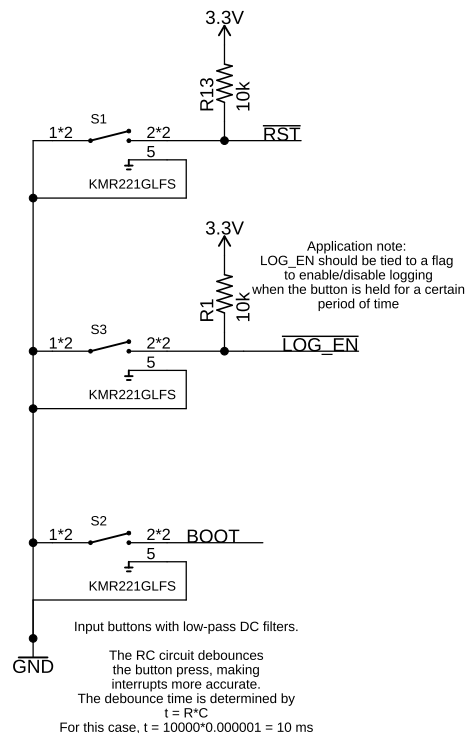
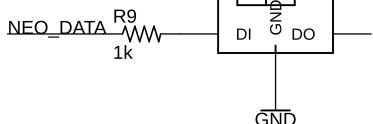
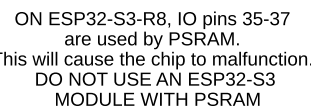
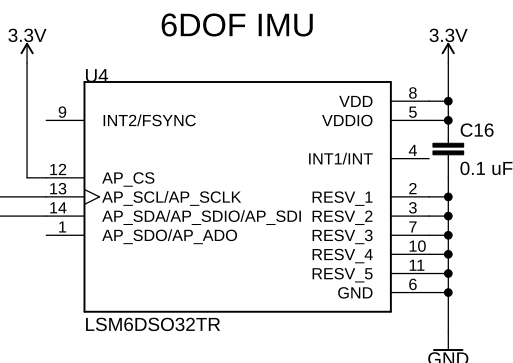


Microcontroller

7/48. $3.3V$



3DOF Magnetometer



The diagram shows the SD Card connection for the DM3D-SF module. The module's J2 connector is connected to an SD Card. The connections are as follows:

- SD Card Pin 1 (GND):** Connected to the module's GND pin (pin 1).
- SD Card Pin 2 (VDD):** Connected to the module's VDD pin (pin 4).
- SD Card Pin 3 (GND):** Connected to the module's GND pin (pin 1).
- SD Card Pin 4 (CLK):** Connected to the module's CLK pin (pin 5).
- SD Card Pin 5 (DAT0):** Connected to the module's DAT0 pin (pin 7).
- SD Card Pin 6 (DAT1):** Connected to the module's DAT1 pin (pin 8).
- SD Card Pin 7 (DAT2):** Connected to the module's DAT2 pin (pin 1).
- SD Card Pin 8 (CS):** Connected to the module's CS pin (pin 2).
- SD Card Pin 9 (DI):** Connected to the module's DI pin (pin 3).
- SD Card Pin 10 (SW-A):** Connected to the module's SW-A pin (pin 10).
- SD Card Pin 11 (SW-B):** Connected to the module's SW-B pin (pin 11).
- SD Card Pin 12 (SHIELD):** Connected to the module's SHIELD pin (pin 12).
- SD Card Pin 13 (VSS):** Connected to the module's VSS pin (pin 13).

The module's J2 connector is labeled with the following pins:

- 1: GND
- 2: VDD
- 3: GND
- 4: CLK
- 5: DAT0
- 6: DAT1
- 7: DAT2
- 8: CS
- 9: DI
- 10: SW-A
- 11: SW-B
- 12: SHIELD
- 13: VSS

The module is labeled DM3D-SF.

USB-C Connector

Passive detection circuit for USB plug-in. This can be tied to a flag to enable debugging or USB MSC when a USB cable is plugged in

USB_MON

V_USB

R11 100k

R17 200k

C2 1 uF

C1 1 uF

R8 5k1

J1

CC1 A5

USB_DPA6

USB_DNA7

A8

CC2 B5

DP2 B6

DN2 B7

SBU2 B8

GND A1

S1*4 B12*2

SHELL_GND

USB4105-GF-A

10K = 100mA
5.0K = 200mA
2.0K = 500mA
1.0K = 1000mA

V_USB

TP17

4

MCP73831/2

VDD VBAT 3 V_BATT

PROG 5 R5 2k

STAT 1

VSS 2

U5

R4 1k

D5

ORG

V_BATT

C5 10 uF

GND

The diagram shows an SMT SD Card (U7) with the following connections:

- Pin 3:** SCK
- Pin 5:** MOSI
- Pin 6:** MISO
- Pin 2:** XTSD_CS
- Pin 1:** XTSD
- Pin 7:** XTSD
- Pin 8:** VCC
- Pin 4:** VSS

A 3.3V supply is connected to VCC (Pin 8) and ground. A 1 uF capacitor (C11) is connected between VCC and ground.