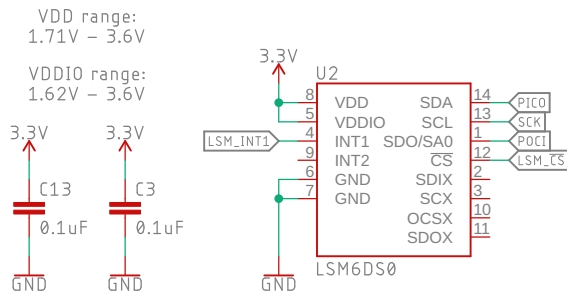


VDD range: 2.0V - 3.6V

STM32C011F6U6

Default I2C address: 0x17

## 6-DoF IMU – LSM6DS0



### Optical Tracking Sensor – PAA5160E1-Q

VDD range:  
1.8V – 2.1V

VDDIO range:  
1.8V – 3.3V

VDD\_VCSEL range:  
2.8V – 3.3V

U1

3.3V SW2 3.3V SW1 1.8V

12 9 15 11 13 8 17

VDD VDDIO VDD\_VCSEL VREG

CS SCLK PICO POCI

RST MOTION VCSEL\_P VCSEL\_N

3 6 5 4 2 7 1 16

PAA\_CS SCK PICO POCI PAA\_RST PAA\_MOTION

AGND DGND GND\_PAD

PAA5160E1-Q

C4 C8 C7 C11 C9 C1

0.1uF 0.1uF 0.1uF 4.7uF 0.1uF 470pF

Schematic diagram of the PAA\_POW output stage. The circuit includes a 3.3V supply, a 100k resistor (R5), a MOSFET (Q2), a 100mA/20V/3.8Ω load, a 3.3V\_SW signal, a 22uF capacitor (C12), an op-amp (U4, R19080-18GJ5), and a 1.8V supply. The op-amp's EN pin is connected to 3.3V\_SW, and its GND pin is connected to ground. The op-amp's OUT pin is connected to a 1.8V supply through a 22uF capacitor (C6). The op-amp's V\_in max is 5.5V and I\_out max is 600mA.

Required input voltage range: 2.8V – 3.3V

Circuit diagram for removing the power LED. The diagram shows a 3.3V supply connected to a resistor R1 (4.7k) and a power LED D1. The LED is labeled 'Red' and its anode is connected to the resistor. The cathode is connected to ground (GND). A red arrow points to the LED with the text 'Cut PWR jumper to remove power LED'.

The diagram shows the pin connections for the STM32F103C8T6 microcontroller (U\$1). The connections are as follows:

- Pin 1: STM\_SWCLK
- Pin 3: 3.3V
- Pin 5: GND
- Pin 2: STM\_SWDIO
- Pin 6: STM\_RST

Cut I2C jumper to remove pullup resistors



Sheet: 1/1