

# Peripherals

## LEDs

- Quantity: 8.
- Description: Low active LEDs.



**PINS:** "led0" IOT54A, "led1" IOT48B, "led2" IOT48A, "led3" IOT52A, "led4" IOT52B, "led5" IOT34A, "led6" IOT34B, "led7" IOT30B

## SWITCH

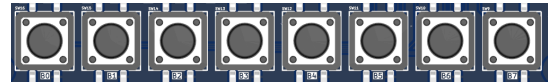
- Quantity: 8
- Description: DIP Switches.



**PINS:** "s0" IOL45B, "s1" IOL38B, "s2" IOT32A, "s3" IOT32B, "s4" IOL27A, "s5" IOL27B, "s6" IOT4B, "s7" IOT4A

## BUTTON

- Quantity: 8
- Description: Low active tactile buttons.



**PINS:** "b0" IOT38B, "b1" IOT16B, "b2" IOT16A, "b3" IOT20A, "b4" IOT20B, "b5" IOT24A, "b6" IOT24B, "b7" IOT30A

## 7SEGMENTS DISPLAY

- Quantity: 8
- Description: Multiplexed seven segments display, 4 digits, common cathode.
- Datasheet: [FJ3461AH](#)



**PINS:** "disp\_1" IOT36A, "disp\_2" IOT36B, "disp\_3" IOT38A, "disp\_4" IOT18A, "disp\_a" IOR49B, "disp\_b" IOR44B, "disp\_c" IOL22A, "disp\_d" IOL17B, "disp\_e" IOR49A, "disp\_f" IOR44A, "disp\_g" IOL11A, "disp\_dp" IOL17A

# Peripherals

## ACCELEROMETER

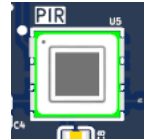
- Quantity: 1.
- Description: SPI Accelerometer with 3x ADC and 1x Temperature Sensor.
- Datasheet: [LIS3DHTR](#)



**PINS:** "cs" IOR32A, "mosi" IOT14A, "sclk" IOT14B

## PIR

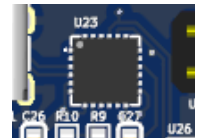
- Quantity: 1
- Description: PIR Motion Sensor.
- Datasheet: [S18-L262B-2](#)



**PINS:** "pir" IOT54B

## SERIAL

- Quantity: 1
- Description: USB UART converter port.
- Datasheet: [CP2105-F01-GMR](#)



**PINS:** "uart\_rx" IOR40A, "uart\_tx" IOR40B

## BUZZER

- Quantity: 1
- Description: Passive Buzzer.
- Datasheet: [QMB-09B-03](#)



**PINS:** "buzzer" IOT18B

# Peripherals

## PMOD

- Quantity: 2.
- Description: PMOD Header



### PINS:

"pmod0\_0" IOR38A, "pmod0\_1" IOR42B, "pmod0\_2" IOR29A, "pmod0\_3" IOR53B, "pmod0\_4" IOR42A, "pmod0\_5" IOR29B, "pmod0\_6" IOR53A, "pmod0\_7" IOR35B, "pmod1\_0" IOR20A, "pmod1\_1" IOR11A, "pmod1\_2" IOR17A, "pmod1\_3" IOR24B, "pmod1\_4" IOR11B, "pmod1\_5" IOR17B, "pmod1\_6" IOR24A, "pmod1\_7" IOR38B



## GPIO

- Quantity: 32.
- Description: General Purpose Input Output Pins. All pins are 3.3V except pins c5, d5, e5, a6, e7 which are 1.5V.

### PINS:

"c0" IOL8B, "c1" IOL7A, "c2" IOL13B, "c3" IOL13A, "c4" IOR39A, "c5" IOL53B, "c6" IOB52B, "c7" IOB54B, "d0" IOR47B, "d1" IOR35A, "d2" IOT44B, "d3" IOL2B, "d4" IOT13A, "d5" IOT22B, "d6" IOR7A, "d7" IOT8A, "e0" IOL2A, "e1" IOL8A, "e2" IOL7B, "e3" IOL15B, "e4" IOL15A, "e5" IOL40B, "e6" IOB48B, "e7" IOB45B, "f0" IOR51A, "f1" IOR36B, "f2" IOT9B, "f3" IOT44A, "f4" IOT9A, "f5" IOT13B, "f6" IOT22A, "f7" IOT8B

