

# SPI FLASH MODULE

The diagram illustrates the wiring for an SPI Flash Module. The module includes a W25Q32JVSS flash memory (U1) and an LED (D5). The flash memory is connected to a 3V3 supply (VCC) and ground (GND). The LED is connected to the 3V3 supply through a 100R resistor (R5). The flash memory has pins for CS (Chip Select), CLK (Clock), Data\_In (Data Input), MISO (Master In Slave Out), and I/O2, I/O3. The CS pin is connected to a 1k resistor (R3) and ground. The CLK pin is connected to a 1k resistor (R7) and ground. The Data\_In pin is connected to a 1k resistor (R9) and ground. The MISO pin is connected to a 2k resistor (R8) and ground. The I/O2 pin is connected to a 2k resistor (R10) and ground. The I/O3 pin is connected to a 2k resistor (R4) and ground. The LED (D5) is connected to the 3V3 supply through a 100R resistor (R5).

# SPEAKER & MQ-2 MODULES

The diagram shows the following connections:

- MQ-2 MODULE (J3):**
  - Pin 4 (5V) is connected to the 5V supply.
  - Pin 3 (GND) is connected to ground.
  - Pin 2 (A0) is connected to the PE5 pin.
  - Pin 1 (PE5) is connected to ground.
- AMP MODULE (J1):**
  - Pin 2 (PB7) is connected to the PB7 pin.
  - Pin 1 (GND) is connected to ground.
- LS2 Speaker (J2):**
  - Pin 1 (Conn\_01x02\_Pin) is connected to the AMP module pin 2.
  - Pin 2 (Conn\_01x02\_Pin) is connected to the AMP module pin 1.

## OLED MODULE

The diagram shows the wiring for an OLED module. The Arduino's SDA pin is connected to the module's SDA pin (pin 4), and the SCL pin is connected to the module's SCL pin (pin 3). The module's VCC pin (pin 2) is connected to the 5V pin on the Arduino, and the GND pin (pin 1) is connected to a ground symbol. The module is labeled 'OLED128X64 SSD1306'.

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