

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 (1), CLK (6), DI(100) (5), DO(101) (2), IO2 (3), IO3 (7), and GND (4). The LED has pins for VCC (8) and GND (9). The circuit includes resistors R3 (1k), R4 (2k), R9 (1k), R7 (1k), R10 (2k), and R8 (2k). A capacitor C1 (C_Polarized) is connected to the 3V3 supply and ground. The input signals are CLK, Data_In, and MISO.

SPEAKER & MQ-2 MODULES

The diagram illustrates the wiring for a Speaker and an MQ-2 module. The MQ-2 module (J3) is connected to a 5V power source and ground. The Speaker module (J2) is connected to a 5V power source and ground. The J1 pin is connected to GND, and the AMP MODULE pin is connected to GND.

MQ-2 MODULE (J3) Connections:

- Pin 4: 5V
- Pin 3: GND
- Pin 2: A0
- Pin 1: PE5

Speaker Conn (J2) Connections:

- Pin 2: 5V
- Pin 1: VCC
- Pin 2: J1
- Pin 1: AMP MODULE

Other Connections:

- Pin 2: 5V
- Pin 1: GND
- Pin 2: PB7
- Pin 1: GND

OLED MODULE

The diagram illustrates the wiring for an OLED module (Brd1 SSD1306) connected to an Arduino Uno. The connections are as follows:

- SDA_OLED** (pin 4) is connected to the **SDA** pin of the module.
- SCL_OLED** (pin 3) is connected to the **SCL** pin of the module.
- 5V** (pin 2) is connected to the **VCC** pin of the module.
- GND** (pin 1) is connected to the **GND** pin of the module.

The module is labeled **Brd1 SSD1306**.

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