

The diagram shows a switch labeled SW1 and SWITCH_SPDTCMICRO. It has three terminals. One terminal is connected to VCC. The other two terminals are connected to a common point, which is then connected to GND. The common point is also connected to X1-1 and X1-2 of the JST-XH-02 connector.

Wiring diagram for JST-XH-02 connector:

- X2-1 is connected to VCC.
- X2-2 is connected to DOOR_SWITCH.

The diagram shows a circuit for edge detection. A switch labeled 'DOOR_SWITCH' is connected to the input A of an XOR gate (U2, XOR_SN74AHC1G86DBVT). Input B is connected to input A through a 1M resistor (R1). Input B is also connected to ground through a 10M resistor (R2) and a 1uF capacitor (C1). The output Y of the XOR gate is connected to a component labeled 'EDGE_DETECTION_LATCH'. The gate's VCC pin is connected to VCC and its GND pin is connected to GND.

Diagram illustrating the pin connections for the PINHD-2X3 header (JP1):

- Pin 1: GND
- Pin 2: MCU_VCC
- Pin 3: PROG_GPIO0
- Pin 4: PROG_RST
- Pin 5: PROG_TX
- Pin 6: PROG_RX

Power Latching

Connect pins with jumper to power ESP continuously (for debugging).

DOOR_SWITCH

MCU_VCC

MCU_LATCH

EDGE_DETECTION_LATCH

D1 LL4148

D2 LL4148

R3 100k

R4 100k

R5 100k

C2 1n

Q1 BC547

Q2 PMOSFET AO3413

U\$1 MCP1700-3302

C3 100n

C4 100n

C5 10u

VCC

GND

JP2 PINHD-1X2

Voltage Regulation to max. 3,3V

The diagram shows the ESP-12F module (U1) with the following connections:

- Pin 1 (RST):** Connected to **PROG_RST**.
- Pin 3 (EN):** Connected to **MCU_VCC**.
- Pin 8 (VCC):** Connected to **MCU_VCC**.
- Pin 15 (GND):** Connected to **GND**.
- Pin 11 (IO9):** Connected to **GND**.
- Pin 12 (IO10):** Connected to **GND**.
- Pin 6 (GPIO12):** Connected to **MCU_LATCH**.
- Pin 7 (GPIO13):** Connected to **GND**.
- Pin 5 (GPIO14):** Connected to **GND**.
- Pin 16 (GPIO15):** Connected to **GND**.
- Pin 4 (GPIO16):** Connected to **GND**.
- Pin 22 (TXD):** Connected to **PROG_RX**.
- Pin 21 (RXD):** Connected to **PROG_TX**.
- Pin 18 (GPIO0):** Connected to **PROG_GPIO0**.
- Pin 17 (GPIO2):** Connected to **GND**.
- Pin 19 (GPIO4):** Connected to **GND**.
- Pin 20 (GPIO5):** Connected to **GND**.
- Pin 2 (ADC):** Connected to **GND**.
- Pin 10 (MISO):** Connected to **GND**.
- Pin 13 (MOSI):** Connected to **GND**.
- Pin 14 (SCLK):** Connected to **GND**.
- Pin 9 (CS0):** Connected to **GND**.

Milestone M1

REV:

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