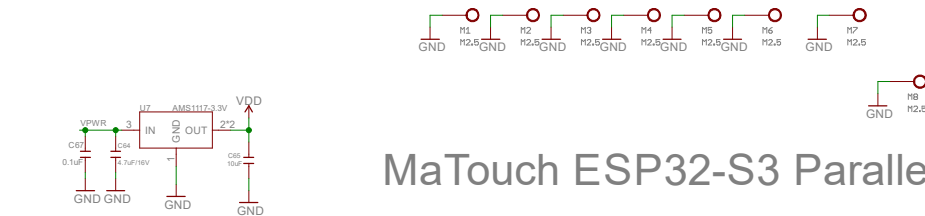


The schematic diagram illustrates the electrical connections for the P2 AF C01-S06FCC-1 board. It features a microcontroller with multiple pins connected to various components:

- Power and Ground:** 3.3V and GND connections are shown at the top and bottom of the board.
- Microcontroller Pins:**
 - IO42:** Connected to FB1 and DCLK.
 - IO45-IO48:** Connected to LED-LED+.
 - IO14-IO16:** Connected to IO4.
 - IO5-IO13:** Connected to IO4.
 - IO17-IO21:** Connected to IO4.
 - IO22-IO24:** Connected to IO4.
 - IO25-IO27:** Connected to IO4.
 - IO28-IO30:** Connected to DCLK.
 - IO31-IO34:** Connected to IO4.
 - IO35-IO37:** Connected to XP, YP, XN, and YN.
 - IO38:** Connected to RESET.
 - IO39-IO40:** Connected to IO4.
- Peripheral Components:**
 - LED-LED+:** Connected to IO45-IO48.
 - IO4:** Connected to IO14-IO21, IO22-IO24, IO25-IO27, IO28-IO30, IO31-IO34, and IO35-IO37.
 - DCLK:** Connected to IO42 and IO30.
 - RESET:** Connected to IO38.
 - RST:** Connected to IO39.
 - IO18/I2C SCL:** Connected to IO18.
 - IO17/I2C SDA:** Connected to IO17.
 - TP INT:** Connected to IO19.
 - IO40:** Connected to IO40.
 - IO41:** Connected to IO41.
 - IO42:** Connected to IO42.
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 - IO100:** Connected to IO100.

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The schematic shows the I2C connection between the ESP8266 and the DS18B20 sensor. The ESP8266's I2C pins are connected to the sensor's I2C pins. The sensor's VCC pin is connected to the +3V3 supply, and its GND pin is connected to the common ground.



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