

The schematic diagram illustrates the power supply circuit for the PIC16C505. It features two voltage regulators: a 5V regulator (LM350) and a 3.3V regulator (LM358). The 5V regulator is powered by VBAT_BDA and VBAT_BOS, and its output is connected to V_PIC00. The 3.3V regulator is powered by V_PIC00 and its output is connected to V_I2C0. The schematic also shows the connection of VBAT_BDA and VBAT_BOS to the PIC16C505.

The image shows four different pin headers with their respective pin functions:

- DISPLAY0:** A 4-pin header with pins labeled SDA, SCL, VCC, and GND. The label PINHD-1X4 is below it.
- HW-125:** A 6-pin header with pins labeled CS, SCK, MOSI, MISO, VCC, and GND. The label PINHD-1X6 is below it.
- SIM8000L:** A 4-pin header with pins labeled VREG, RX, TX, and GND. The label PINHD-1X6 is below it.
- 0:** A 6-pin header with no labels. The label PINHD-1X6 is below it.

The diagram illustrates the pinout for the Raspberry Pi 3B+ (PLIC00). The central header has 40 pins. The connections are as follows:

- SERIAL0 (pins 1-5):** Connected to a PINHD-1X3 header. Pin 1 is GND, pin 2 is GP0, pin 3 is GP1, pin 4 is GP2, and pin 5 is GP3.
- GPIOs (pins 6-15):** GP4 (pin 6), GP5 (pin 7), GP6 (pin 8), GP7 (pin 9), GP8 (pin 10), GP9 (pin 11), GP10 (pin 12), GP11 (pin 13), GP12 (pin 14), and GP13 (pin 15).
- SWCLK, SWGND, SWDIO (pins 16-19):** SWCLK (pin 16), SWGND (pin 17), SWDIO (pin 18), and GND (pin 19).
- PORT1 (pins 31-35):** Connected to a PINHD-1X4 header. Pin 31 is VBUS, pin 32 is VSYS, pin 33 is V3V3(OUT), pin 34 is V3V3_IN, and pin 35 is RUN.
- PORT2 (pins 36-40):** Connected to a PINHD-1X4 header. Pin 36 is ADC_REF, pin 37 is GP28, pin 38 is GP27, pin 39 is GP26, and pin 40 is GP22.
- PORT3 (pins 41-45):** Connected to a PINHD-1X4 header. Pin 41 is GP21, pin 42 is GP20, pin 43 is GP19, pin 44 is GP18, and pin 45 is GP17.
- Other connections:** GP14 (pin 20) is connected to BUS_B0A (SDA7), GP15 (pin 21) is connected to BUS_B0B (SCL7), GP16 (pin 22) is connected to BUS_B0C (GND), and GP17 (pin 23) is connected to BUS_B0D (VCC3).

[illegible]