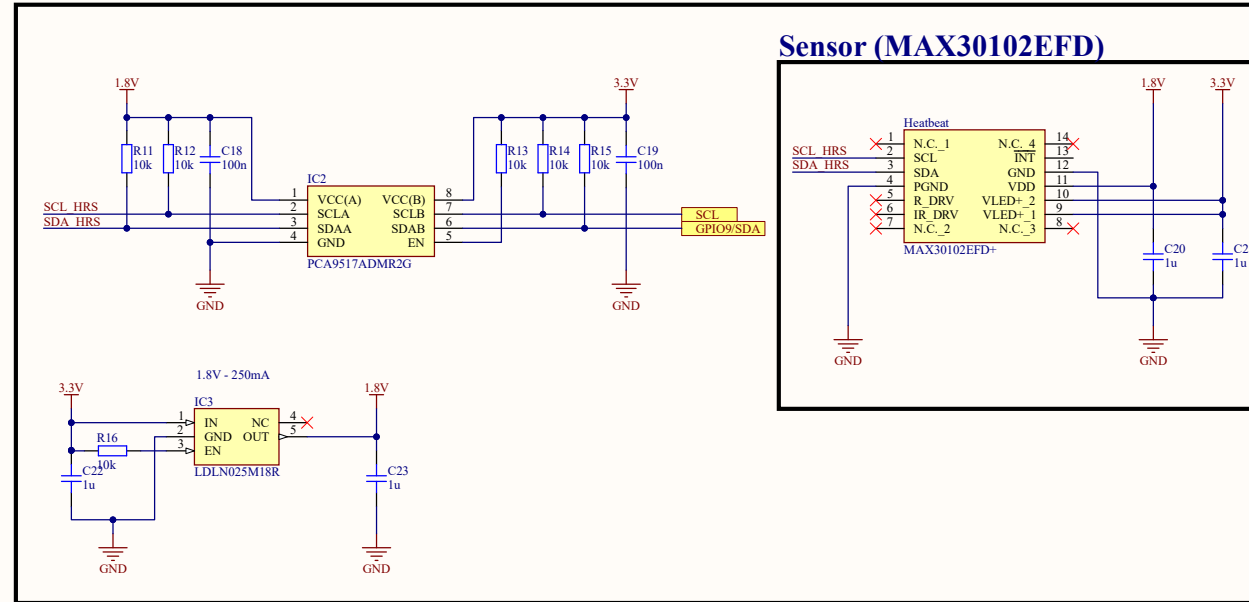


The schematic diagram illustrates the electrical connections for the ESP32 C3 module. The module is represented by a yellow box labeled 'ESP32 C3' and 'IC1 ESP32-C3'. The connections are as follows:

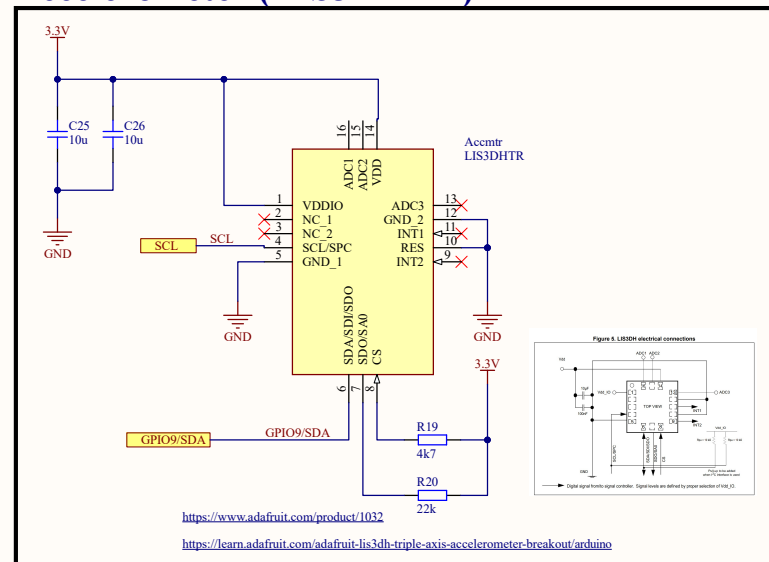
- Power and Ground:**
 - 3.3V power is connected to pins 32, 31, 17, 11, 3, and 2.
 - Ground (GND) is connected to pins 3, 2, 7, 29, 30, 4, 5, 1, and 2.
- Signal Connections:**
 - SPI:** SPI VCC to pin 18, SPI DI to pin 23, SPI DO to pin 24, SPI CLK to pin 25, SPI CS0 to pin 26, SPI Wp to pin 27, SPI Hold to pin 19, and SPIHD to pin 28.
 - I2C:** SCL to pin 6 and GPIO9/SDA to pin 1.
 - UART:** D USB N to pin 20 and D USB P to pin 21.
 - GPIO:** GPIO2 to pin 6, GPIO3 to pin 7, GPIO8 to pin 18, GPIO9 to pin 19, GPIO10 to pin 20, GPIO18 to pin 21, and GPIO19 to pin 22.
 - Antenna:** ANT1 is connected to the antenna pad, which is also connected to the RF1 and RF2 pins.
- Internal Components:**
 - Capacitors: C1 (10uF), C2 (100nF), C3 (100nF), C4 (100nF), C5 (100nF), C6 (100nF), C7 (10uF), C8 (3pF), C9 (3pF), C12 (27pF), and C13 (27pF).
 - Inductors: L1 (2nH) and L2 (2nH).
 - Crystal: Y1 (8Z-40.000MAA-J) connected to pins 29 and 30.

The diagram shows three separate connections. On the left, a red line labeled 'VBUS' connects to a yellow square labeled 'VBUS Pad'. In the middle, a red line labeled 'VBAT' connects to a yellow square labeled 'VBAT Pad'. On the right, a red line labeled '3.3V' connects to a yellow square labeled '3V3 Pad'.

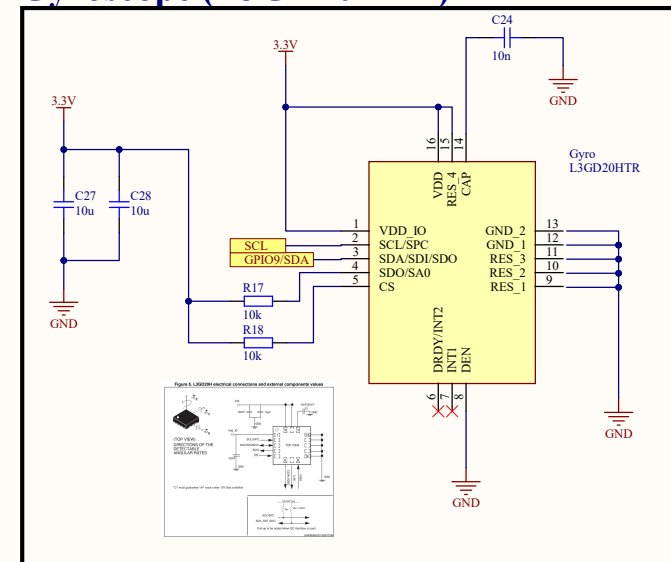
Heartbeat sensor



Accelerometer (LIS3DHTR)



Gyroscope (L3GD20HTR)



Title		
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A3		
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