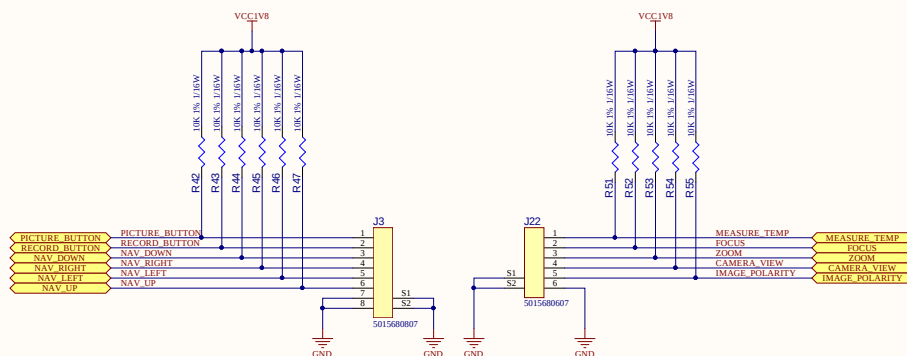


## BATTERY MONITORING

The diagram illustrates a battery monitoring circuit. It features two power supply rails: VCC1V8 and VCC5V. The VCC1V8 rail is connected to a 0.1µF 50V 10% capacitor (C20) and a 2K 1/10W 1% resistor (R21). The VCC5V rail is connected to a 1µF 16V 10% capacitor (C19) and a 0.1µF 50V 10% capacitor (C21). The MAX3334EEETA+T IC (U6) is connected to VCC1V8 at pin 8 (VL) and VCC5V at pin 1 (VCC). The IC has pins for I/O VL1, I/O VL2, I/O VCC1, and I/O VCC2. The DS9503P+ transceiver (D4) is connected to the I/O VL1 pin of the IC at pin 1 and the I/O VCC1 pin at pin 6. The transceiver has pins for DQ (pin 1), DQ (pin 6), and DQ (pin 4). The circuit is powered by a 5V supply (VCC5V) and a 1.8V supply (VCC1V8). The output of the transceiver is connected to a DQ pin, which is also connected to a DQ pin on a board.

## USB INTERFACE

## HANDLE BUTTONS

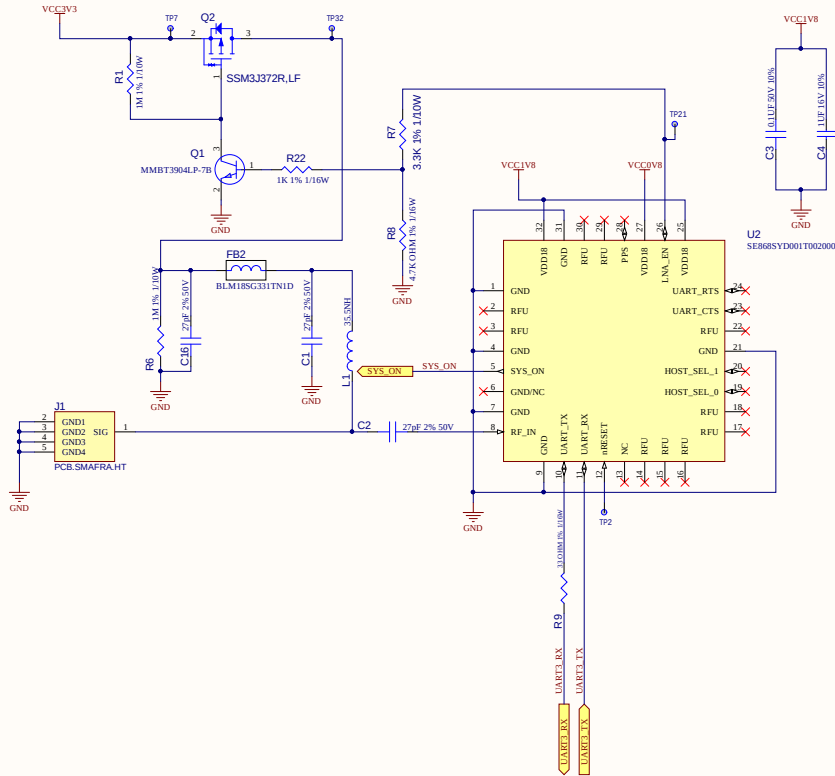


Pin 12 connection diagram for the M55-005042R module. The diagram shows a central pin 12 connected to various functions on both sides. On the left, functions include CARRIER\_PWR\_ON, MODE\_SEL\_3, UART1\_TX, MODE\_SEL\_2, MODE\_POLARITY, ZOOM, PICTURE\_BUTTON, NAV\_LEFT, SPI\_MISO, SPI\_CS, NAV\_DOWN, NAV\_RIGHT, RECORD\_BUTTON, MEASURE\_TEMP, BAT\_MONITOR, DC2\_SDA\_I2V, DC2\_SCL\_I2V, and VCC5V3. On the right, functions include CARRIER\_STBY, UART1\_RX, POWER\_BUTTON, MODE\_SEL\_1, CAMERA\_VIEW, FOCUS, NAV\_UP, SPI\_SCLK, THERMO\_CTL1\_3V3, THERMO\_CTL2\_3V3, THERMO\_EN\_3V3, VCC1\_CTL2\_3V3, VCC1\_CTL\_3V3, USBDN\_3\_P, and USBDN\_3\_N. Power supplies VCC5V3 (0.365A) and VCC1V8 (0.025A) are indicated at the top. Ground connections are shown at the bottom.

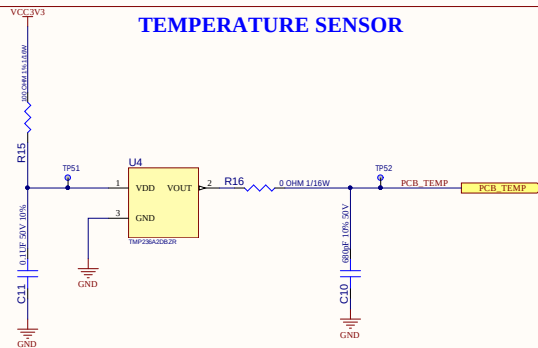
Default I2C address for LIDAR Sensor:  
64C011000100

[illegible]

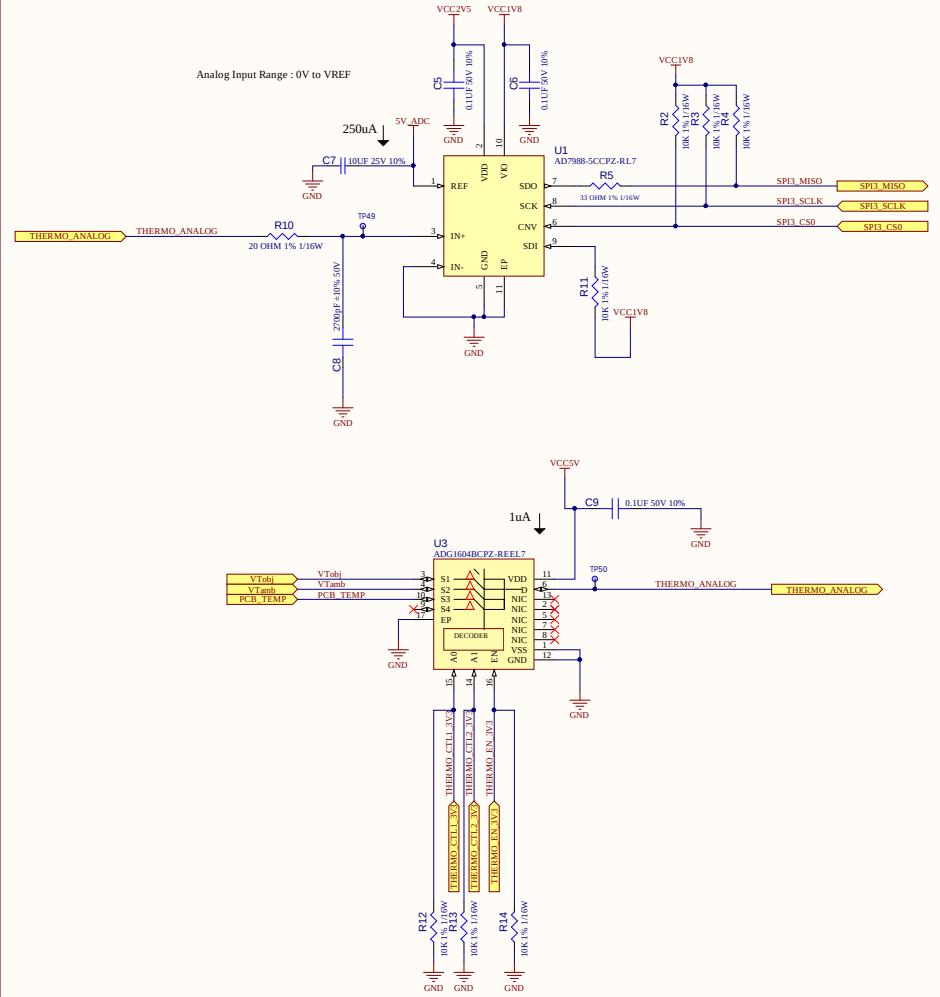
## GNSS MODULE



## TEMPERATURE SENSOR



## ADC



## 12.8V TO 5V\_ADC

