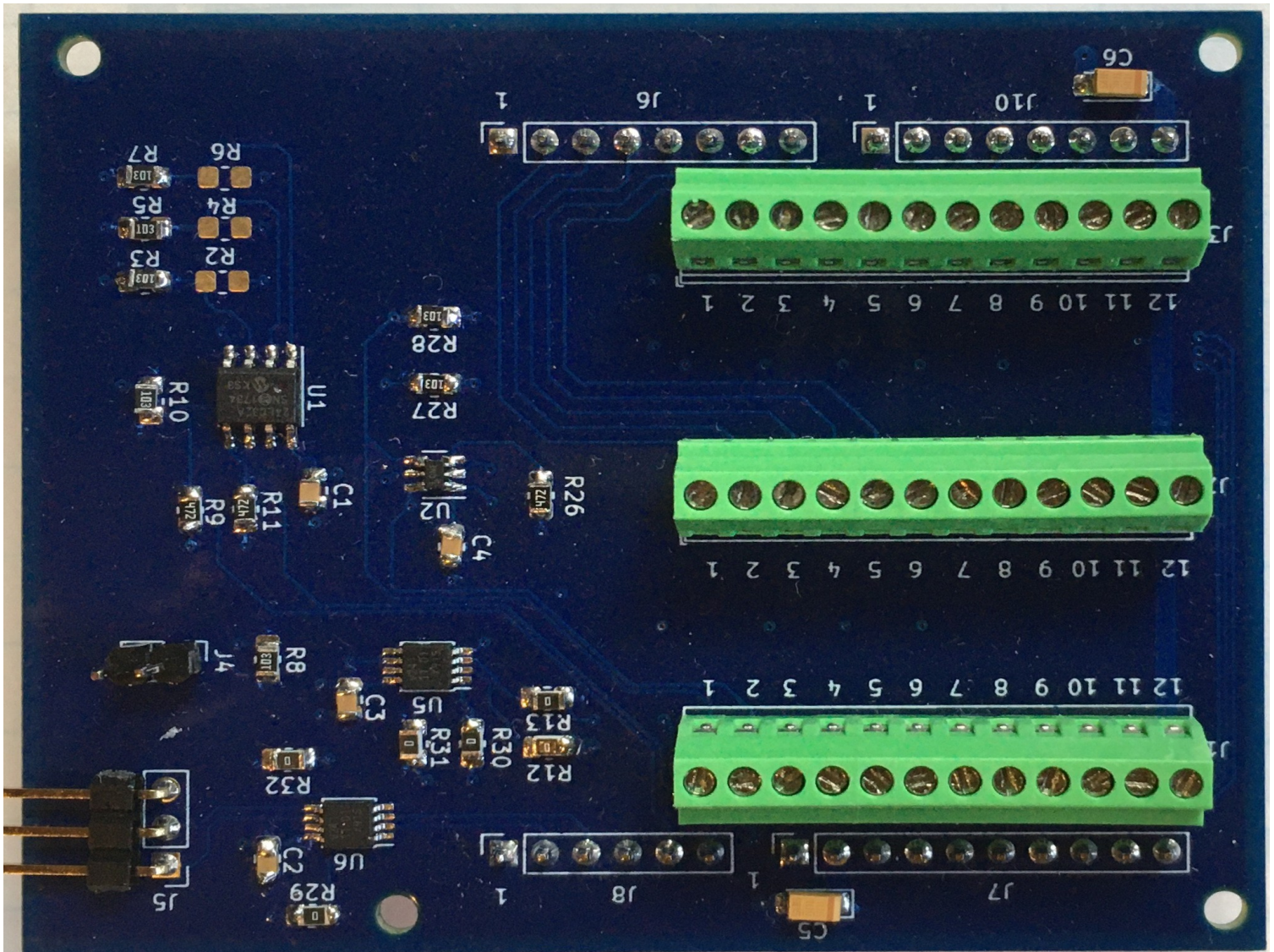

LoRa Sensor Terminal I/O Board



The LoRa sensor terminal I/O board is designed to support multiple types of externally connected sensors with I2C, SPI, UART, or Analog I/O interfaces.

24LC32A 4K byte EEPROM : Connected to I2C bus 1, can be used for device configuration and data logging.

TTL RS-232 I/O :

UART1 – Debug port

UART2 – User port

LTC4311 I2C Bus Accelerator :

Up to 1 meter length connections to I2C bus 2 at 400Khz.

Dimension: 2.5" x 3.0"

3x -12 Position Screw Terminals (2.54mm)

J1

I2C Bus 2 Terminals

Pin	Signal	Function
1	I2C2_SCL	I2C Bus 2 clock. This pin is connected to I2C bus accelerator
2	I2C2_SDA	I2C Bus 2 data. This pin is connected to I2C bus accelerator
3	I2C2_SCL	I2C Bus 2 clock. This pin is connected to I2C bus accelerator
4	I2C2_SDA	I2C Bus 2 data. This pin is connected to I2C bus accelerator
5	I2C2_SCL	I2C Bus 2 clock. This pin is connected to I2C bus accelerator.
6	I2C2_SDA	I2C Bus 2 data. This pin is connected to I2C bus accelerator.
7	GND	
8	GND	
9	GND	
10	+5V	
11	+5V	
12	+5V	

J2

ADC/DAC IO and UART2 Terminals

other function.

J4

Pin	Signal	Function
1	PA0	Pulled up with 4.7K resistor to 3.3V
2	GND	Ground

J5

TTL RS-232 Port (UART1)

Pin	Signal	Function
1	TXD	Transmit Data *
2	RXD	Receive Data *
3	GND	Ground

* UART1 transmit data and receive data are buffered with a 5v tolerant 3.3V line driver/buffer.