Repeater Module Block Diagram

Indicator LED

Reset Button

USB Port

D+/D-

CP2102 USB-UART

TX/RX

ESP32-C3-MINI-1

SPI Bus

SX1262 LoRa Module

SPI Bus

External Flash SD Card Holder

VCC

Battery Voltage Measurement Pin

3V3

SMA Connector

Charge Controller

Voltage Regulator LDO

COAX

Yagi Antenna

Solar Panel

Battery Bank 18650 lithium

On-Board Connection

External Connection

Power

Data

RF