

Product spec for RF24 client/server network communications:

Min/max number of clients = 3 clients min, 300 clients max

Number of servers = 1

Type of communications between server/client = Bidirectional - 32 bytes from client to server, 4 bytes from server to client

Range of network from client to server = 1 meter minimum, 10 meters max through metal structures on auto or truck or bus

Max transmission time = 2 seconds for all 300 clients to send 32 byte packets and receive 4 byte server packet.

Software:

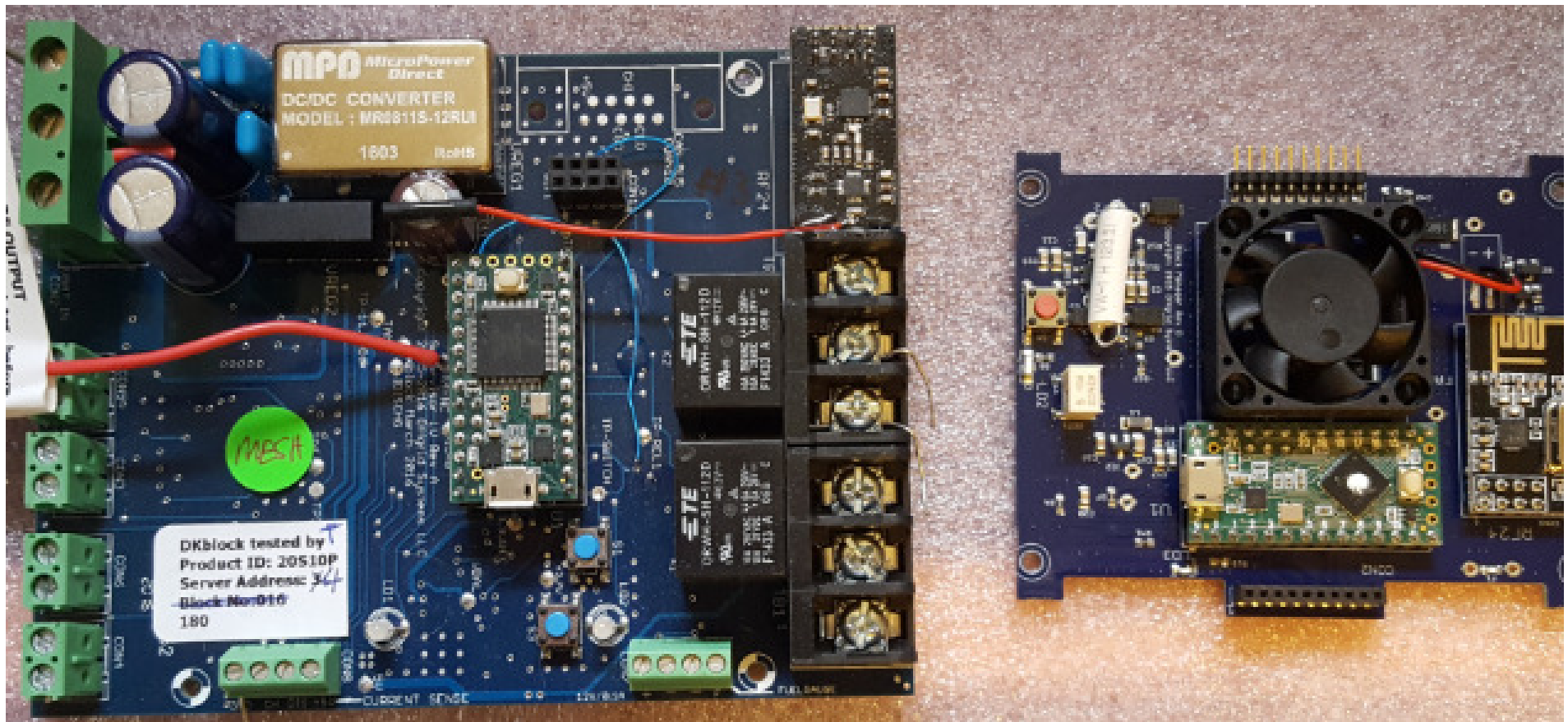
C or C++ compatible with Arduino user interface and IDE

Library = Highly prefer Radiohead software

<http://www.airspayce.com/mikem/arduino/RadioHead/>

Hardware:

Battery Management System boards with Teensy Microcontroller boards with USB connectors that look like:



Server = Teensy 3.2 with radio connected on SPI port

<https://www.pjrc.com/store/teensy32.html>

Radio = RF24

Client = Teensy LC with radio connected on SPI port

<https://www.pjrc.com/teensy/teensyLC.html>

Resources:

Arduino programming interface for the teensy hardware = Teensyduino found on the PJRC website:

Good teensy forum on using the Teensy hardware

<http://www.airspayce.com/mikem/arduino/RadioHead/>