

WaitLess Bus Tracking System DK-2 Group status email: Due 2009 April 1st

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Current Status

- Using Level shifter which arrived Saturday, communication with Wi-Fi module is now possible.
- Wi-Fi module connects and retrieves data while connected to a private home router with WEP64bit key, similar to GTwireless.
- Sign/box is almost completed, just need to finish making a solar panel mount.

Task Status: Actions on last week's Action Items

1. Daniel will fine-tune Wi-Fi xml reader code he wrote.
 - Thursday we will try the code out for the first time on the module while connected to GTwireless.
2. Matt will use level shifter that arrives later this week to enable the Arduino to see the messages the Wi-Fi module is sending.
 - The level shifter works great. However, it is only one way communication so we will continue to use a simple voltage divider for the 5v to 3.3volt translation.
3. Josh will finish mounts for PCB inside box.
 - PCB is now mounted on the front cover of the case, placing the LEDs closer to the map decal. Also, heat-shrink was added around each LED, so light produced from each LED is focused only where it is intended.
4. Chris will find out what the last character that is appended to messages from the Wi-Fi module.
 - We were able to just return all characters received and not worry about the last character that is appended. Since most messages end with I/OK, we are using 'I' which is returned at the end of most messages to know the message was received.

Planned Tasks: Action Items for the upcoming week

- Daniel will test out the code developed for parsing XML data received by the Wi-Fi module.
- Matt will use Wi-Fi module to connect to GTwireless.
- Josh will finish the Solar Panel Mounting device.
- Chris will test the Wi-Fi module and code developed for parsing XML data.
- All of us plan to meet Tuesdays and Thursdays, at 4:30 to work on the project.

Problems

The last issue is whether the Wi-Fi Module has enough power to receive and transmit while positioned at a bus stop on campus. We will determine this next week.