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Setting Configuration

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detected it as Comm Port.

• The USB/UART Bridge is base on Silicon Lab CP2012 chipset • USB/UART Programming/Console Adapter (PMPROG01) driver can be Download here

• Make sure that the driver for USB/UART Programming/Console Adapter (PMPROG01) is properly install and the PC is

- Connect the USB/UART Programming/Console Adapter (PMPROG01) to the Wifi Remote I2c Device. • You can power-up the WiFI Remote I2c module through the USB Bus for configuration and programming.
- Place the jumper J2 on USB/UART Programming/Console Adapter (PMPROG01) to 5V output selection.

• For windows system, you can use terminal emulator program Termite to configure the device.

• Termite can be downloaded at CompuPhase Website • Make sure the 'Port' setting is refer to the USB/UART Programming/Console Adapter (PMPROG01)'s Virtual Comm Port. • Follow the setting according to the setup screen capture. (57600Baud 8-N-1)

• Once Termite configuration is done, press 'OK' to save the setting. • On the Wifi Remote I2c Device, Press the configuration button to allow the device to go into configuration mode.

• Type 'help' to show the command available for configuration.

• We will use PineA64 as our Wifi Remote I2c module's server.

Config. Mode

Press Config Mode button to go into configuration mode

• To configure the Wifi AP SSID and Password, (eg SSID=TestingWifi and Password=12345)

• The SSID and password are case sensitive. Please make sure it is input correctly.

• After reboot, the Red LED indicator will start to blink in fast blinking mode.

• The next step will be configure the PineWifiServer into your PineA64 board.

• To Set the PineA64's IP address in to the device, enter (we will be using IP address 192.168.0.230 as example) server 192.168.0.230

wifi TestingWifi 12345

• The hardware configuration is done.

Type 'show' to list out current configuration.

• Once configuration is done, type 'exit' to exit configuration mode and allow the device to reboot. • Please make sure your network is has DHCP server. The WiFi Remote i2c module will be running on DHCP mode and will requesting a IP address from your network's DHCP

• Once the WiFi Remote I2c module connected to the WiFi Access Point, the LED indicator will go into slow blinking mode.

Setup the PineWifiServer Download the PineWifiServer from the Download Section

• Copy PineWifiServer xxxxxxxxx.gz into your PineA64 with linux on it. (where xxxxxxxxx is the version number)

• Add Execution flag on both of the file by

./PineWifiServer

telnet localhost 10000

• To exit the console, type 'exit'.

Running the WifiAppDemo

• Unzip both of the file using gunzip.

chmod +x WifiAppDemo

• To start the WifiAppDemo, type

./WifiAppDemo

module.

• Add Execution flag on both of the file by

• To see all available command, type 'help'.

• To login into the server, telnet into localhost port 10000

Start the PineWifiServer by

chmod +x PineWifiServer

• Unzip the file using gunzip.

• To show current connect Wifi Remote I2c type 'list' in small capital letter.

Download the PineWifiServer from the Download Section • Copy WifiAppDemo xxxxxxxxx.gz into your same PineA64 board that currently running with PineWifiServer. (where xxxxxxxx is the version number)

• Please take note that you are only allow one login simultaneously. The second telnet login will be rejected.

• before start running the demo application, please logout any telnet session to the PineWifiServer. • The demo application will telnet into the PineWifiServer and start polling all the available Wifi Remote I2c device currently connected to the server.

• The Application will connect the PineWifiServer currently running in the localhost.

Example of screen shot with WifiAppDemo polling multiple Wifi Remote I2c with Ambient Light Sensor and Humidity/Temperature Sensor connected on it. The speed for each round of polling is 1 second per poll.

Short Jumper S2 on the WiFI Remote I2c module (before power up the board) to allow the board to go in to firmware programming mode.

• Make sure that the driver for USB/UART Programming/Console Adapter (PMPROG01) is properly install and the PC is detected it as Comm Port.

• The USB/UART Bridge is base on Silicon Lab CP2012 chipset

• Download the firmware from the download section and unzip the file.

• Setup the ESP Flash Download tools according to the screen short.

Firmware Upgrade

Hardware Setup

Software Setup

• Download the windows Python base Flash Download Tools by Espressif from Espressif website

• Connect the USB/UART Programming/Console Adapter (PMPROG01) to the Wifi Remote I2c Device.

• You can power-up the WiFI Remote I2c module through the USB Bus for configuration and programming.

Place the jumper J2 on USB/UART Programming/Console Adapter (PMPROG01) to 5V output selection.

• USB/UART Programming/Console Adapter (PMPROG01) driver can be Download here

• After uploading is done, power off and on again the WiFi Remote I2c module to restart the system. **Technical Specification**

I/O Pin Out

• Operating Frequency: 2412MHz-2484MHz

• Output power of PA for 802.11b: 19.5dBm-21.5dBm

• Recieived Sensitivity at DSSS, 1Mbps: -98dBm

• Dimension: 47.00mm x 34.00mm

• Max. Input Current: 200mA

• Input Voltage: 5V

Download **Program/Driver** ermite a simple RS232 terminal

• Flash Download Tools v2.4 Under Tools Section

Silicon Lab CP2102 Virtual COM Port Driver

WifiAppDemo.gz

PineWifiServer.gz PMWF01A Firmware PMWF01A Firmware Source PineWifiRemotel2c Server Source.tar.gz

TE PCJ-105D3M Relay Datasheet ESP8266 Datasheet • ESP8266 forum

Datasheet/Related Information

 ESP8266 Resources CP2102 Datasheet

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• ESP8266 Flash Download Tools, Please refer to the Tools section

Wifi Remote I2c

Hardware Setup

rmite 3.2 (by CompuPhase) Serial port settings Quit on Escape Autocomplete edit line ✓ Keep history Close port when inactive Polling 100 ms Word wrap ∨ Cancel OK Termite Setup Screen Termite 3.2 (by CompuPhase) COM2 57600 bps, 8N1, no handshake Settings Clear About Close Firmware Version 16032901 Firmware ID: 1a01 Type 'help' for command information show - Show current setting

Help Command

wifi <SSID> <Password> - Set wifi router SSID and Password

server (IP) - Set server ip address

exit - Quit and reboot

• Once the server is started, you will notice that the LED indicator on the Wifi Remote I2c Hardware will change from slow blinking to always on.

• The demo application will also poll the I2c port of the hardware for the Ambient Light Sensor and the Temperature/Humidity Sensor if the sensor is connected to the Wifi Remote I2c

PineWifiServer Login Screen

Hardware Setup

• Make sure that the firmware address is set correctly. Baud rate is set to 115200baud and Com Port is set according to the Virtual Com Port of your PC. • Once the ESP Flash Download tool and hardware is setup properly, press the 'Start' button to start the firmware uploading process.

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