



Network Hub BeaglePlay Hardware Set Up

Introduction

This manual shows instructions on initialising configuration settings for a network hub using the BeaglePlay board.

Software Required on Local Computer

- WinSCP
- PuTTy

Quick Reference Guide

- 1. Connect laptop/pc to the USB C port of BeaglePlay board. The USB C port supports data transfer.
- 2. Obtain the network hub Python code from Github repository to the local computer.
- 3. Use WinSCP to transfer the network hub Python script from local computer to BeaglePlay.
- 4. Open PuTTy terminal emulator on local computer and connect to BeaglePlay terminal.
- 5. The following instruction is required to initialise the python script everytime the BeaglePlay reboot:
 - a. From BeaglePlay terminal, create a new systemd service file:

ExecStart=/usr/bin/python /home/debian/myscript.py

sudo nano /etc/systemd/system/myscript.service

b. Then, write the following code:

[Unit]
Description=My Script Service
After=multi-user.target

[Service]
Type=idle

[Install] WantedBy=multi-user.target

Change the "/home/debian/myscript.py" with the actual directory where the Python script is saved.

- c. Save the file and exit by using keyboard key "Ctrl+X" then type "Y" to save and "Enter" to exit.
- d. To apply the changes, reload systemd by writing the following line into BeaglePlay terminal:

sudo systemctl daemon-reload

e. Initialise and run the service on boot by type the following line on terminal:





sudo systemctl enable myscript.service

- 6. Configure the XBEE module as coordinator. Refer to document "User Guide Setting Up XBEE Module" for manuals.
- 7. Connect the XBEE module to the USB A port of BeaglePlay board.
- 8. Disconnect the USB C from laptop/pc and connect 5V power supply to the USB C port.
- 9. The Python script will automatically run once the BeaglePlay reboots.