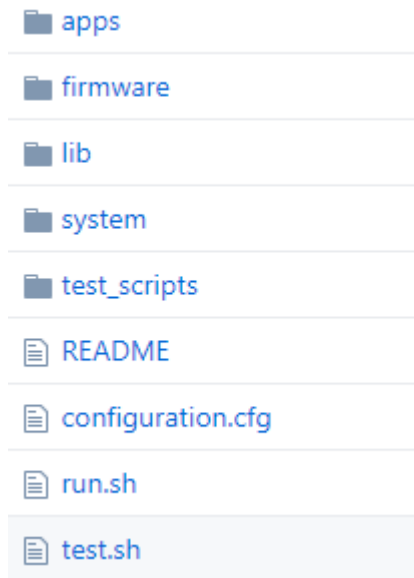


MangOH Yellow Test Program Overview

Test program is written in shell script providing functions to test mangOH yellow hardware and expansion cards.

1. Folder Structure:



apps: Legato applications support for automation testing part.

firmware: Working base image need to flash to module before testing.

lib: It contains common functions support for testing.

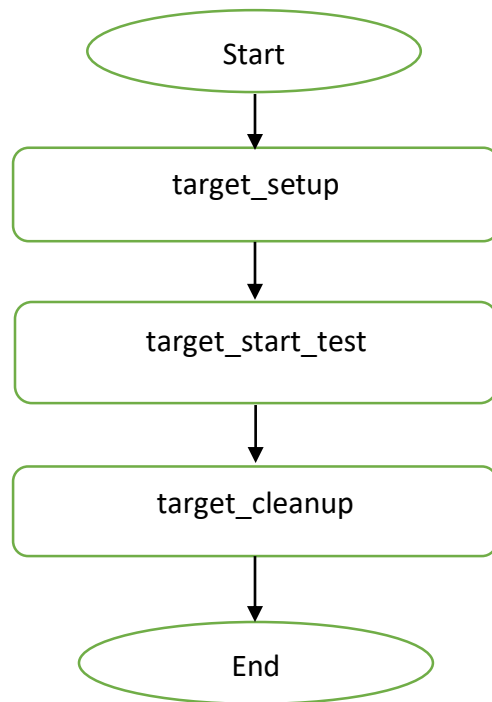
system: It include testing applications, api and modified to pass the kernel module parameters to make the eeprom writable.

test_scripts: It contains testing functions.

configuration.cfg: It describes target IP, module type, Wifi Access Point, UART port.

run.sh: Drivers testing program

2. Work Flow:



target_setup:

- Setup target environment.
- Push system file to target.
- Install system.
- Start necessary applications.

target_start_test:

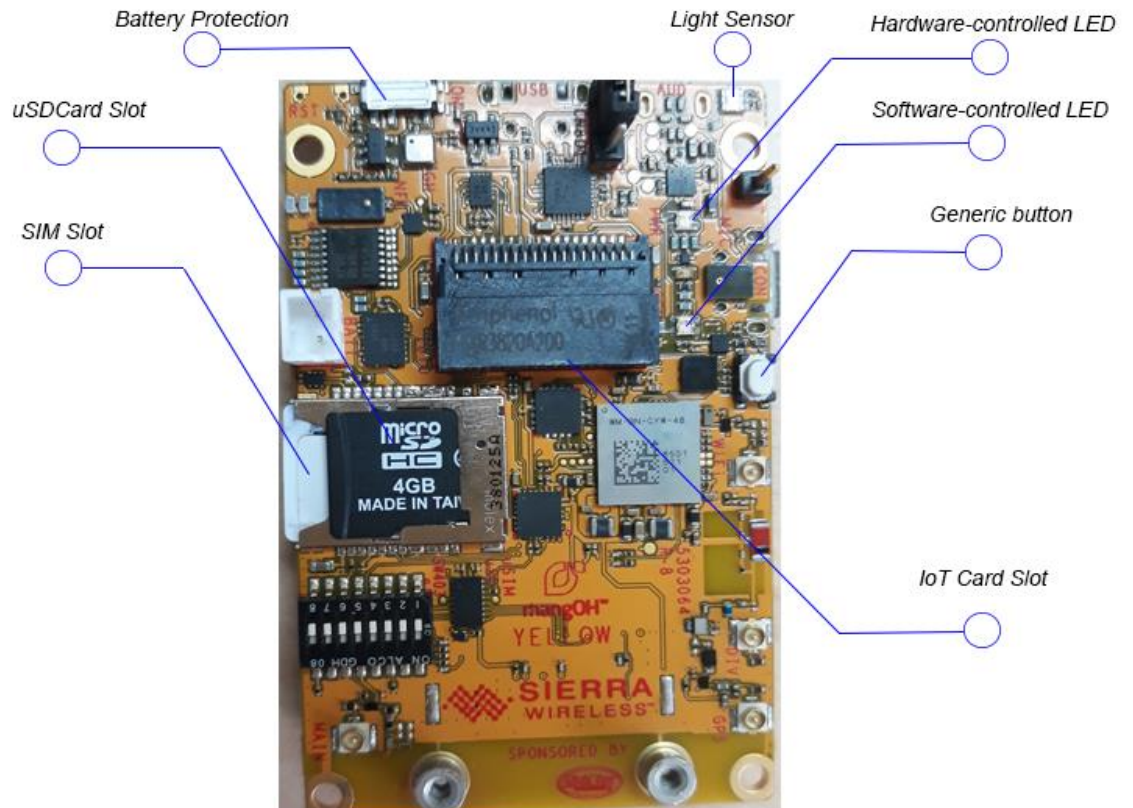
- Run testing functions.
- Assert Passed/Failed for each testing function.
- Get log.

target_cleanup:

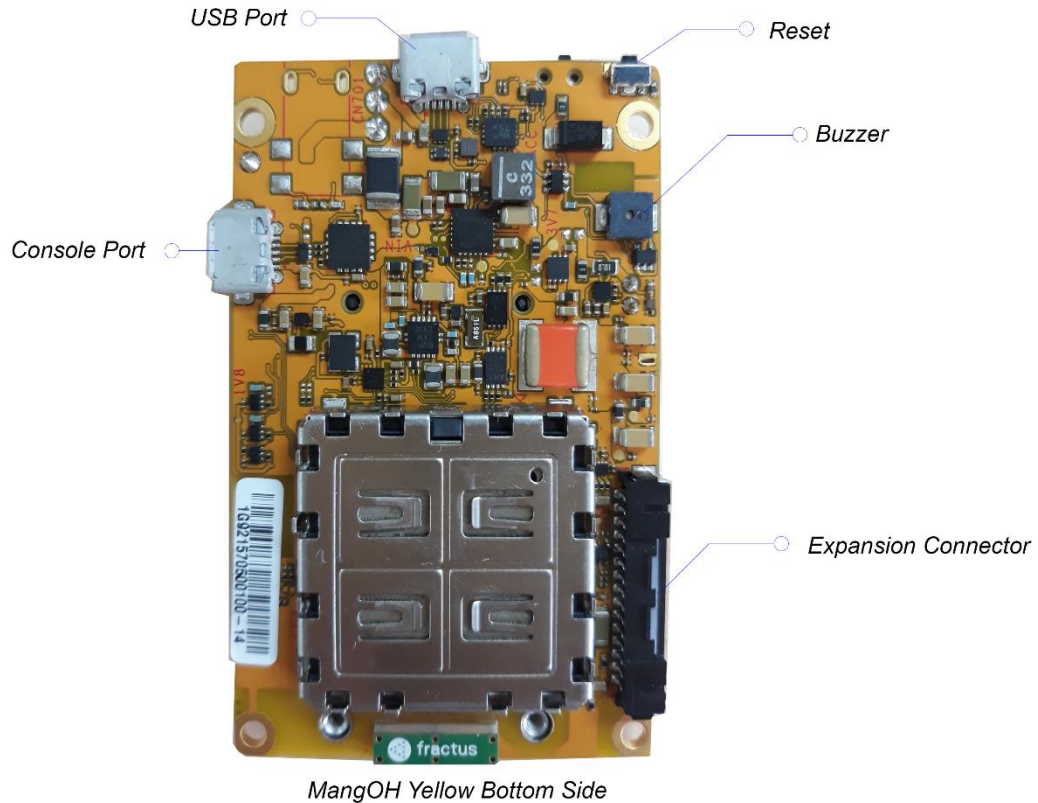
- Restoring target.
- Assert Passed/Failed of test program.
- Write log to eeprom.

3. Hardware requirements:

- Linux Machine
- USB cable
- mangOH board with working base image is flashed
- SIM
- Handset
- NFC tag reader
- MicroSD card
- IoT test card
- Expansion-connector test board
- mangOH board configured as:
 - WiFi access point
 - discoverable Bluetooth device



MangOH Yellow Top Side



4. How to run:

1. Copy test program to any directory in Linux machine
2. From the copied directory run './run.sh' by root and follow the prompts

5. PASSED/FAILED Assert:

If in the end of testing console return: **[PASSED]** that mean testing is passed, **[FAILED]** that mean testing is failed.

```
Test is finished
Remove power jumper then press ENTER

Disconnect from USB then press ENTER

Disconnect battery,Unplug SIM, SD card, IoT card and
ard.then press ENTER

Then press ENTER to end testing then press ENTER

[PASSED]
```

The running log is written to EEPROM to track.