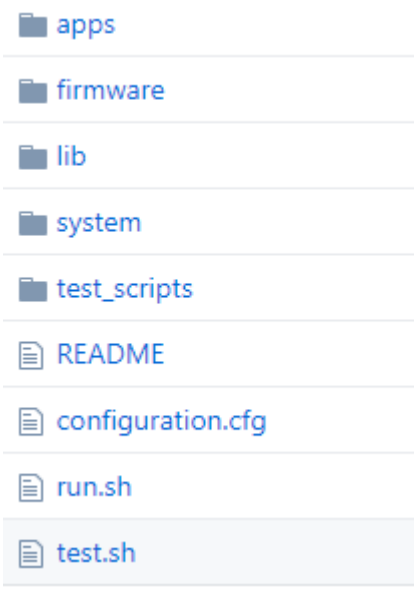
MangOH Yellow Test Program Overview

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.

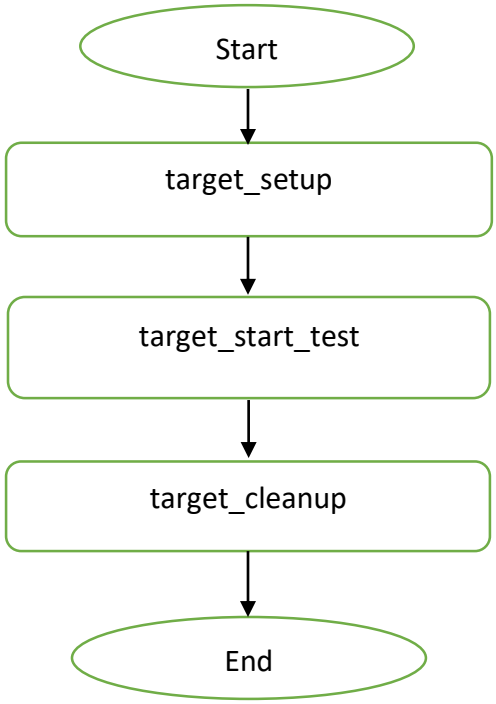
system: It include testing applications, api and modified to pass the kernel module parameters to make the eeprom writable.

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:

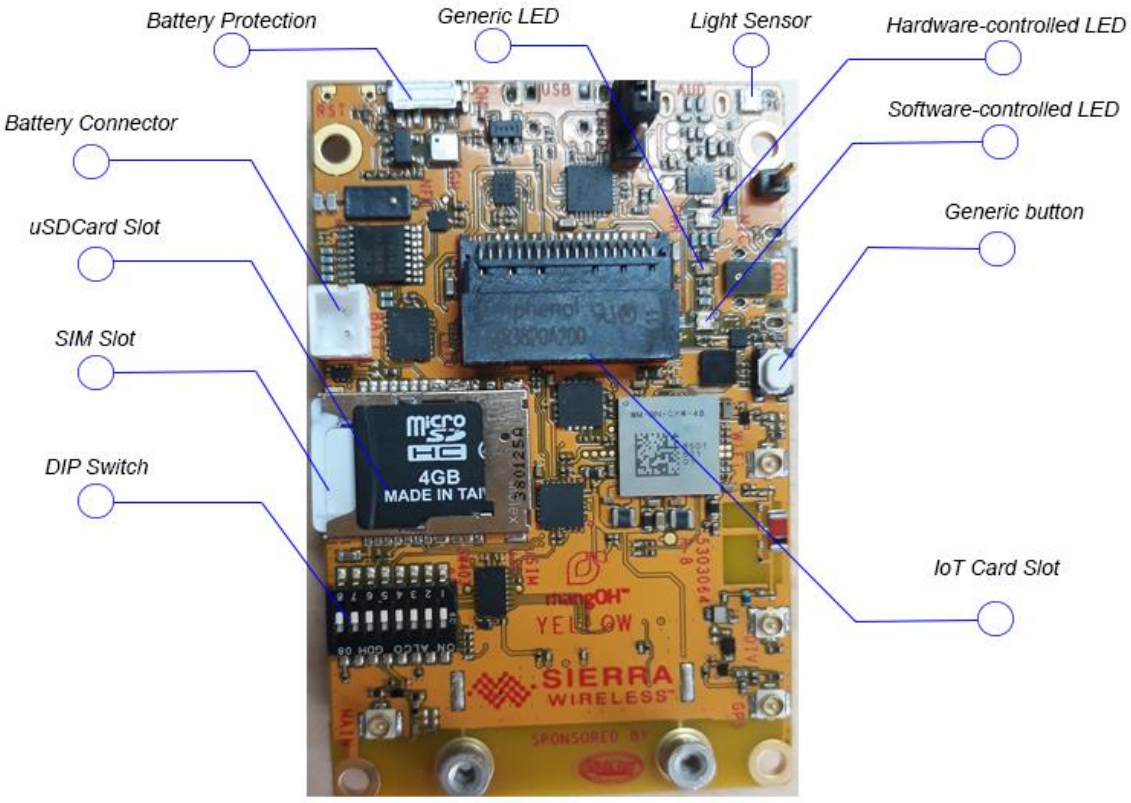
- Run testing functions.
- Assert Passed/Failed for each testing function.
- Get log.

target_cleanup:

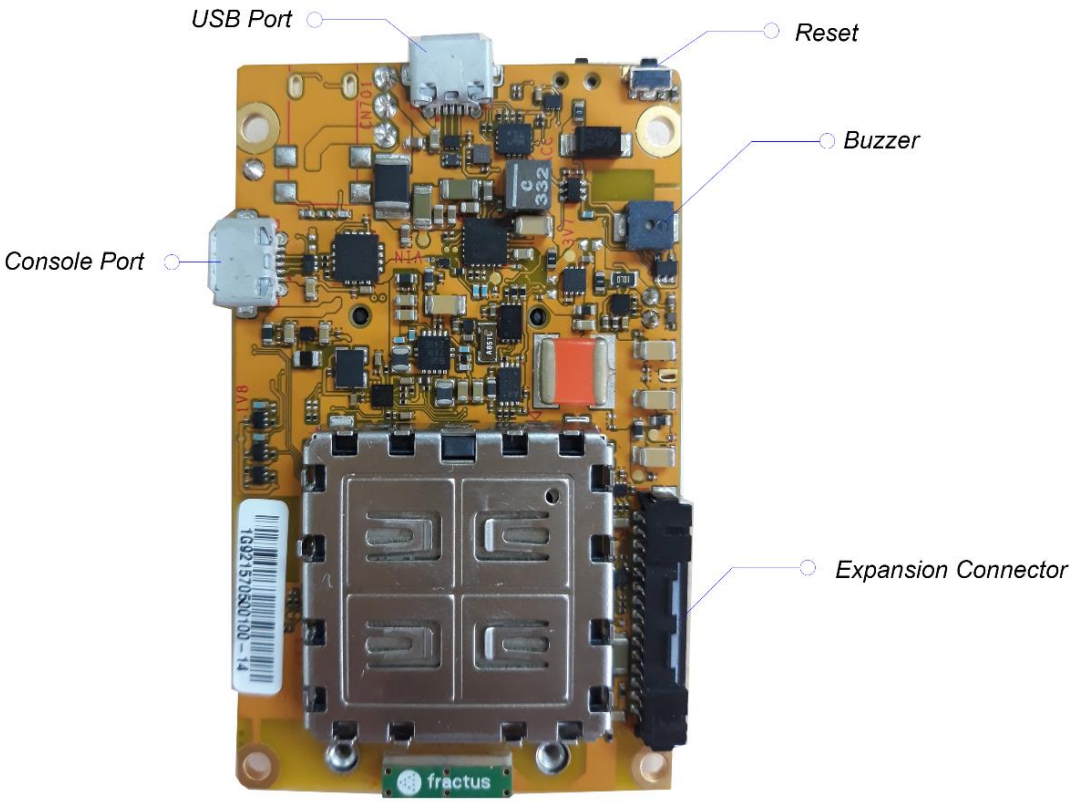
- Restoring target.
- Assert Passed/Failed for test program.
- Write log to eeprom.
- Capture Syslog and Testlog and store in results directory.

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



MangOH Yellow Bottom Side

4. How to run:

1. Copy test program to any directory on the Linux machine
2. From the copied directory execute command: " ***./run.sh 2>&1 | tee -a test.log"*** by ***root*** and follow the prompts

5. PASSED/FAILED Assert:

If in the end of testing, console returns **[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. Syslog and Testlog is stored in *results* directory.