

# Hardware Unit Test Report

## Power consumption Test of Android TV version

| Hardware version | FW version                   | Sample No.           | eMMC Flash P/N      |
|------------------|------------------------------|----------------------|---------------------|
| V015             | r47b BFX-AT100<br>EEE Enable | S/N: 2154001662-01S1 | KLM8G1GETF-<br>B041 |

### 1. Test Setup

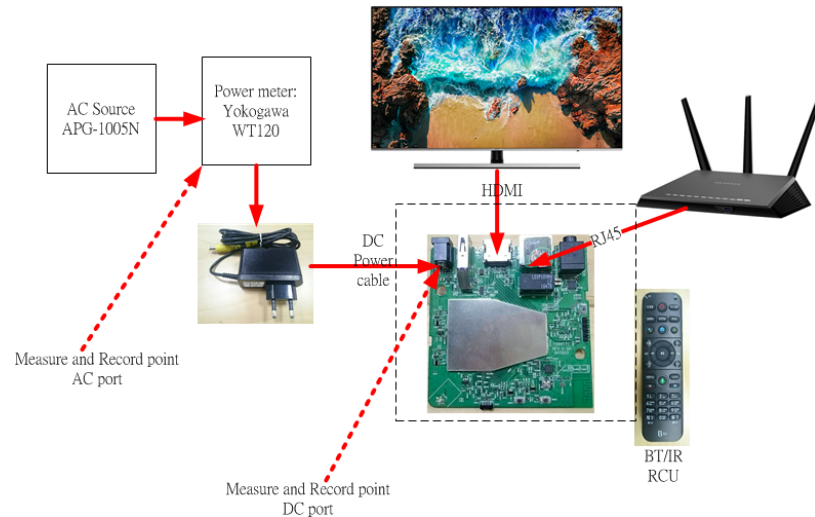
#### Equipment:

1. Eagle DVT board V015.
2. AC POWER: APG-1005N: 220Vac @60Hz
3. AC Adapter: Editech TYPE2541 5V/2A
4. 4K TV: ENVISION P2271WHL
5. Power meter with accumulator: Yokogawa WT210
6. Current probe: TCPA300
7. NETGEAR R7000 1Gbps

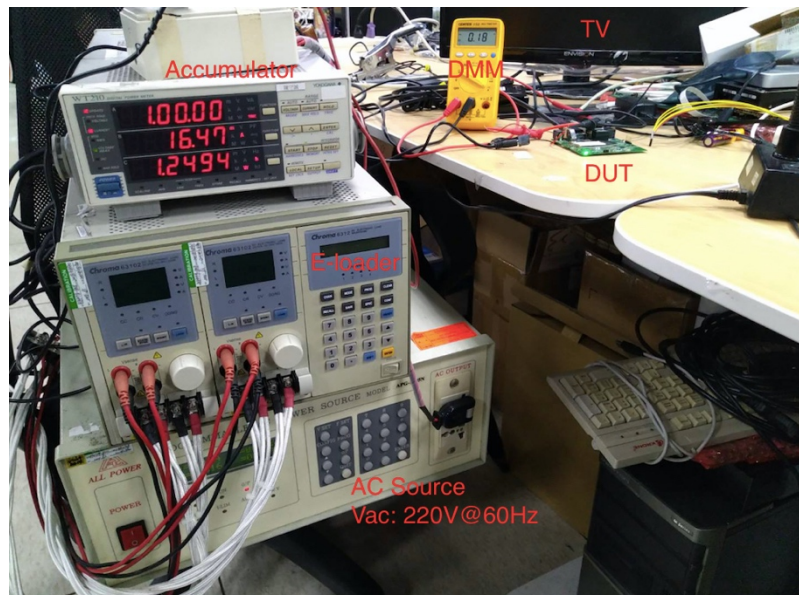
#### Test Environment:

1. Test place: FXN CNSBG Building 1F office
2. Test DUT name: Eagle DVT V015 borad
3. Test environment condition: temperature: 25 deg-C, humidity: 65
4. Test date: 2019/9/18
5. Test result: See section 3 for test results.
6. Test setup picture (block diagram and real test environment picture)

## Block Diagram:



## Test setup picture:



## 2. Test Items and Condition

### 1. Operation mode

#### 1. DUT power on

#### 2. Switch to TV mode and enter YouTube to play 4Kp60 video.

4kp60 video content: <https://youtu.be/pyCy3xnvJ5c>, playing time: 0:00:00

YouTube updates to latest version and STOP all APP update.



### Gorgeous Waterfalls in 4K 60fps (2160p) - Soothing Nature Video for...

4K Relaxation Channel 觀看次數：22萬次

Gorgeous waterfalls from Oahu Island, Hawaii in exceptional 4K Ultra HD 60 frames quality for your 4K TV, lobby, waiting room,

#### 3. Accumulating for 1 hour and record the power consumption result.

## 2. Active standby mode

1. DUT power on
2. Press power key of RCU to enter standby state from normal state.
3. Accumulating for 1 hour and record the power consumption result.

## 3. Test Result

## DVT build power consumption:

## 3.1 Operation mode [Adaptor: Editech TYPE2541 5V/2A]

| Test Results of power consumption: EEE enable<br>F/W version: r47b BFX-AT100 version(LAN: 1000M bps) |                               |                             |        |
|------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------|--------|
| Item No.                                                                                             | AC port<br>Eagle Board V015   | DC port<br>Eagle Board V015 | Remark |
| #1 DUT                                                                                               | 220Vac/33.50mA@60Hz, 2.8736W* | 5.10Vdc/450mA, 2.2950W      |        |
| #2 DUT                                                                                               | 220Vac/33.50mA@60Hz, 2.8156W* | 5.10Vdc/450mA, 2.2950W      |        |

Note:

\*: DUT1 accumulation for 2 hours is 5.7471W, the reality power consumption is 2.8736W.

AC current: (36mA+31mA)/2=33.5; DC current: (500mA+400mA)/2=450mA

\*: DUT2 accumulation for 2 hours is 5.6312W, the reality power consumption is 2.8156W.

AC current: (36mA+31mA)/2=33.5; DC current: (500mA+400mA)/2=450mA

## 3.2 Active standby mode [Adaptor: Editech TYPE2541 5V/2A]

| Test Results of power consumption: EEE enable<br>F/W version: r47b BFX-AT100 version(LAN: 1000M bps) |                               |                             |        |
|------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------|--------|
| Item No.                                                                                             | AC port<br>Eagle Board V015   | DC port<br>Eagle Board V015 | Remark |
| #1 DUT                                                                                               | 220Vac/19.44mA@60Hz, 1.5334W* | 5.15Vdc/220mA, 1.1330W      |        |
| #2 DUT                                                                                               | 220Vac/19.22mA@60Hz, 1.5209W* | 5.15Vdc/220mA, 1.1330W      |        |

Note:

\*: DUT1 accumulation for 2 hours is 3.0668W, the reality power consumption is 1.5334W.

AC current: 19.44mA (keeps a value on Accumulator); DC current: 220mA (keeps a value on DMM)

\*: DUT2 accumulation for 2 hours is 3.0417W, the reality power consumption is 1.5209W.

AC current: 19.22mA (keeps a value on Accumulator); DC current: 220mA (keeps a value on DMM)