

Hardware Unit Test Report

Power consumption Test of AOSP version

Hardware version	FW version	Sample No.	eMMC Flash P/N
V015	1. AOSP BFX-UH200	S/N: 2154001662-01S1	KLM8G1GETF-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

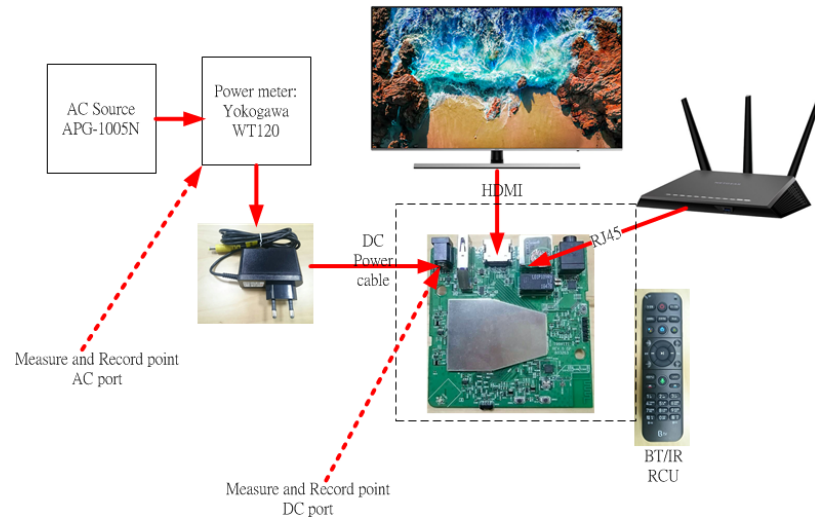
Test Environment:

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: 2019/7/24
5. Test result: See section 3 for test results.
6. Test setup picture (block diagram and real test environment picture)

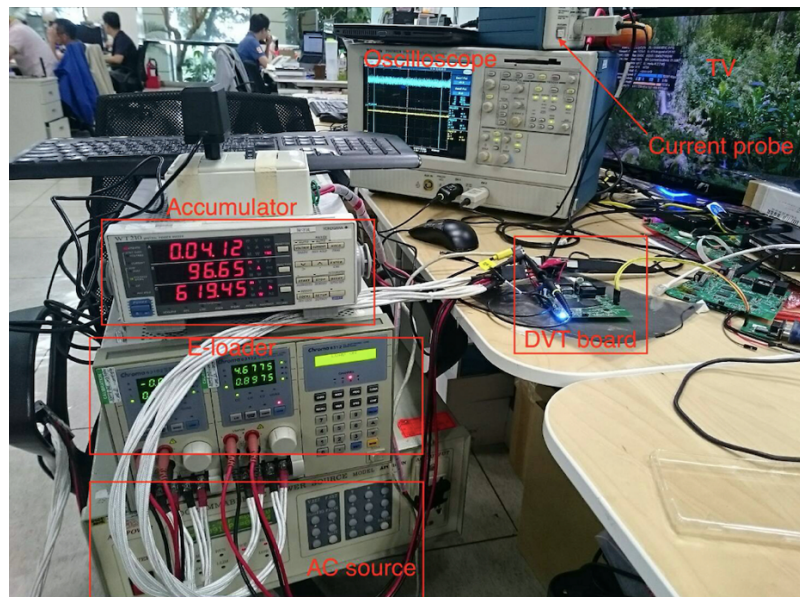
Criteria:

Normal state power consumption should be **under 3.0W** (with adapter)

Block Diagram:

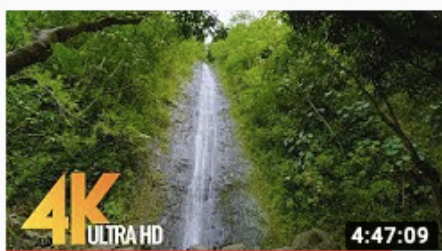


Test setup picture:



2. Test Items and Condition

1. DUT power on
 2. Switch to TV mode and enter YouTube to play 4Kp60 video.
- 4kp60 video content: <https://youtu.be/pyCy3xnvJ5c>



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.

3. Test Result

The test results are all pass under 3W.

DVT build power consumption:

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

Test Results of power consumption: F/W version: r1 AOSP BFX-UH200 version(LAN: 1000M bps)			
Item No.	AC port Eagle Board V015	DC port Eagle Board V015	Pass/Fail
#1 DUT	220Vac/32.87mA @60Hz, 2.696Wh	5.13Vdc/440mA, 2.2572W	Pass
#2 DUT	220Vac/32.29mA @60Hz, 2.656Wh	5.10Vdc/420mA, 2.1420W	Pass
#3 DUT	220Vac/32.91mA @60Hz, 2.671Wh	5.10Vdc/450mA, 2.295W	Pass
#4 DUT	220Vac/32.43mA @60Hz, 2.705Wh	5.10Vdc/430mA, 2.193W	Pass
#5 DUT	220Vac/32.75mA @60Hz, 2.820Wh	5.10Vdc/460mA, 2.346W	Pass