

Hardware Unit Test Report

Power consumption Test of AOSP version

Hardware version	FW version	Sample No.	eMMC Flash P/N
V015	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

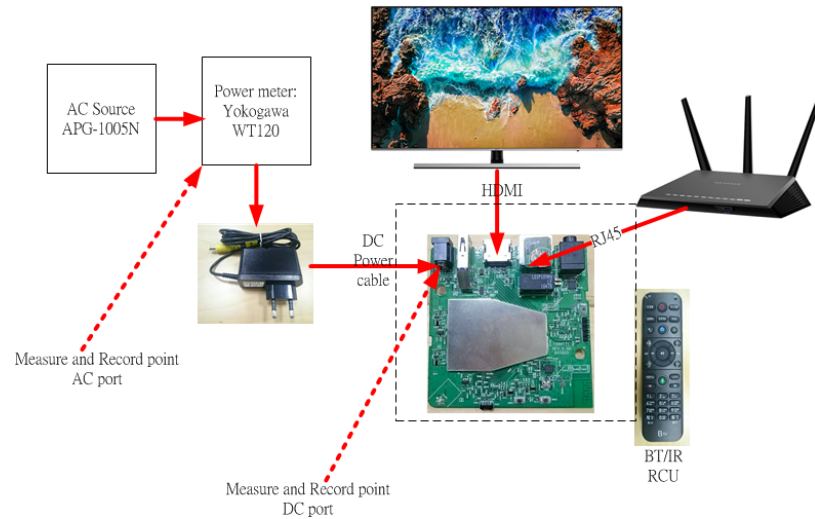
Test Environment:

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: 2019/9/6
5. Test result: See section 3 for test results.
6. Test setup picture (block diagram and real test environment picture)

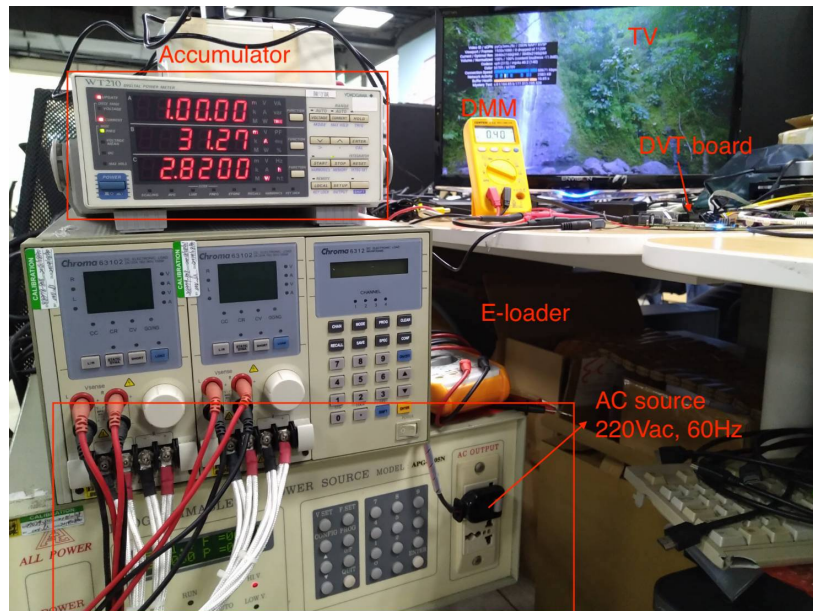
Criteria:

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 観覧回数: 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.

Note: We attached test result of BFX-AT100 test result because the Test of SW and HW are the same to BFX-AT100.

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

3.2 Booting time

Booting time of power consumption: F/W version: r16 BTV-AT100 SKB TV version		
Item describe	behavior	Eagle board V015
5. active state wake up time	normal state-->active standby	< 2 seconds
	active standby-->normal state	< 2 seconds
6. Passive state wake up time	normal state-->passive standby	<2 second
	passive standby-->normal state	~5 second