

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

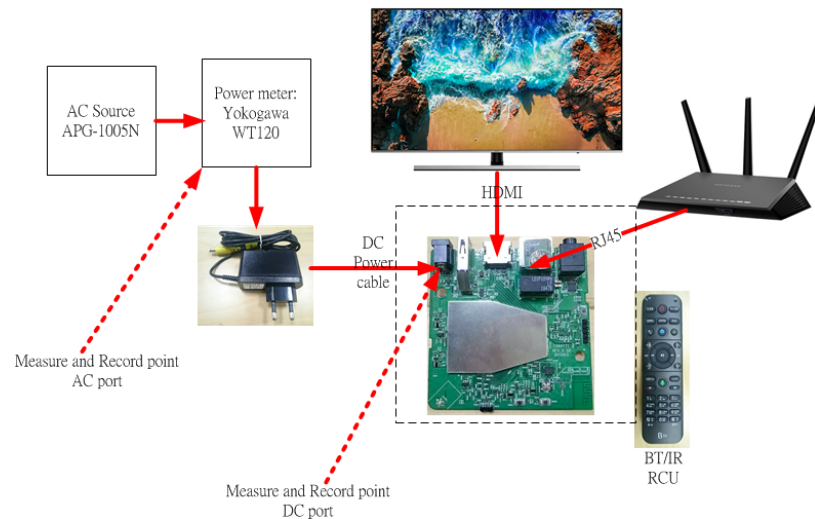
Equipment:

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

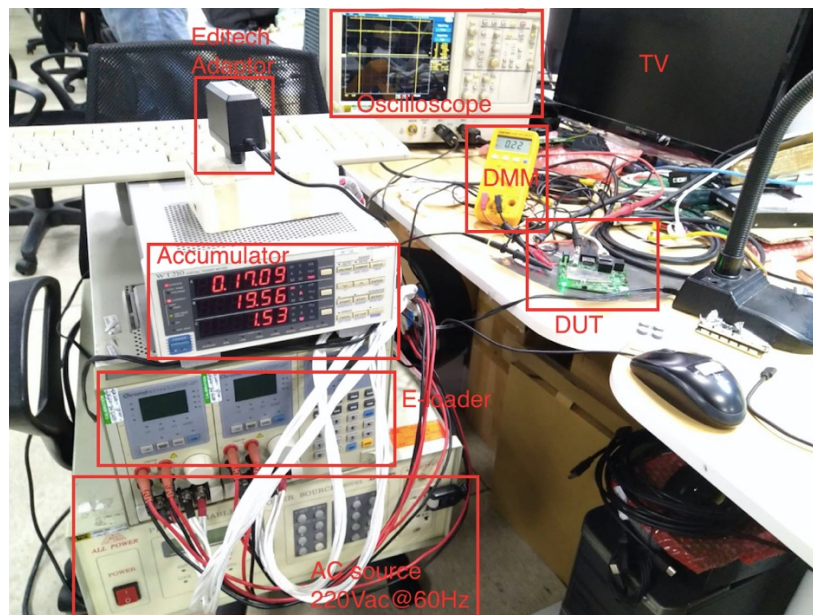
Test Environment:

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 & 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:

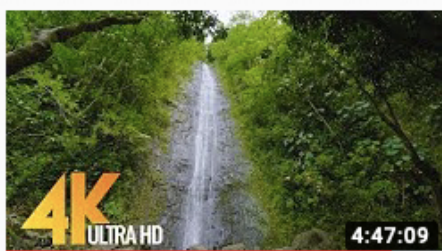


Test setup picture:



2. Test Items and Condition

1. 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. But the results of the active standby state are all around 1.5W.

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]: Operation mode

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	Remark
#1 DUT	220Vac/32.87mA @60Hz, 2.696W	5.13Vdc/440mA, 2.2572W	
#2 DUT	220Vac/32.29mA @60Hz, 2.656W	5.10Vdc/420mA, 2.1420W	
#3 DUT	220Vac/32.91mA @60Hz, 2.671W	5.10Vdc/450mA, 2.295W	
#4 DUT	220Vac/32.43mA @60Hz, 2.705W	5.10Vdc/430mA, 2.193W	
#5 DUT	220Vac/32.75mA @60Hz, 2.820W	5.10Vdc/460mA, 2.346W	

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

Test Results of power consumption: F/W version: r5 AOSP BFX-UH200 version(LAN: 1000M bps)			
Item No.	AC port Eagle Board V015	DC port Eagle Board V015	Remark
#1 DUT	220Vac/19.60mA @60Hz, 1.545W	5.10Vdc/220mA, 1.1220W	
#2 DUT	220Vac/19.62mA @60Hz, 1.544W	5.10Vdc/220mA, 1.1220W	
#3 DUT	220Vac/19.68mA @60Hz, 1.541W	5.10Vdc/220mA, 1.1220W	
#4 DUT	220Vac/19.60mA @60Hz, 1.543W	5.10Vdc/220mA, 1.1220W	
#5 DUT	220Vac/19.61mA @60Hz, 1.540W	5.10Vdc/220mA, 1.1220W	

3.3 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