

Hardware Unit Test Report

Power consumption Test of Android TV version

Hardware version	FW version	Sample No.	eMMC Flash P/N
V125	BFX-UA300-userdebug 10 QT 19.524.21	S/N: TBD	DDR: 1. K4A8G165WC- BCTD 2. K4A4G165WF- BCTD eMMC: KLM8G1GETF- B041

1. Test Setup

Equipment:

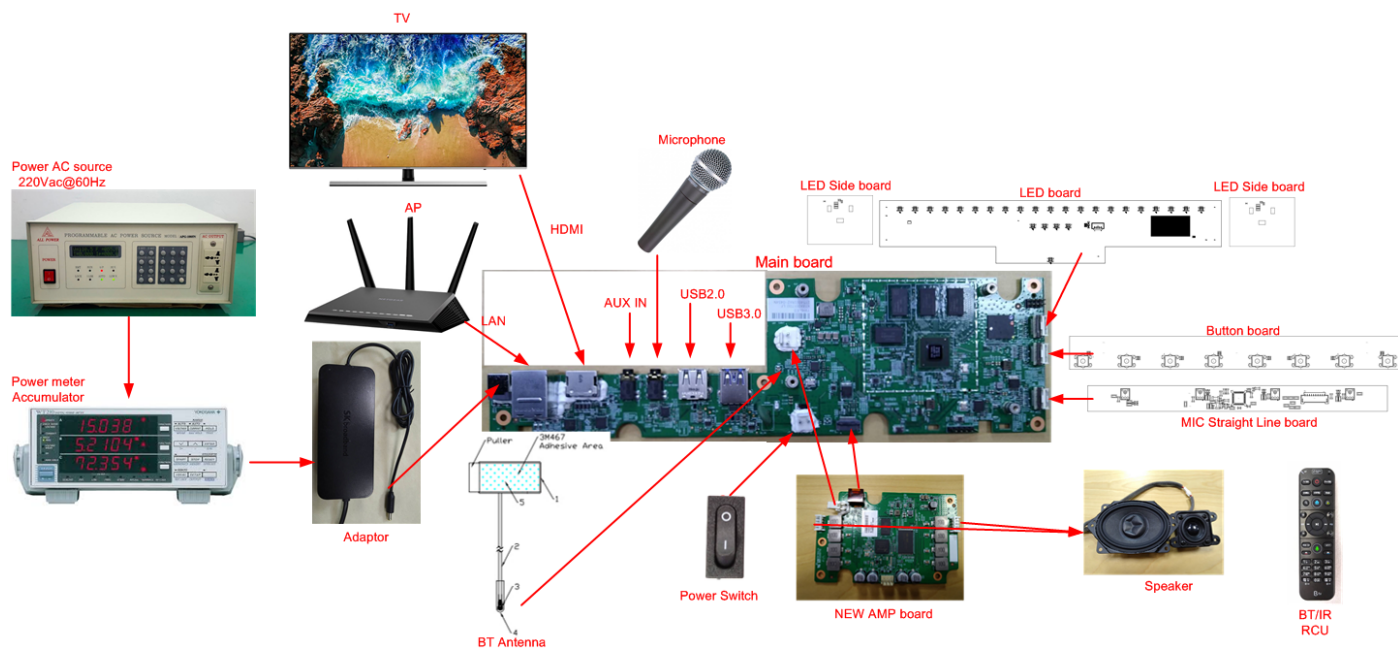
1. BFX-UA300 DVT board V125.
2. AC POWER: APG-1005N: 220Vac @60Hz
3. AC Adapter: LA-A271KS 24V/4A 24V/5A
4. 4K TV: ENVISION P2271WHL
5. Power meter with accumulator: Yokogawa WT210
6. Current probe: TCPA300
7. NETGEAR R7000 1Gbps

Test Environment:

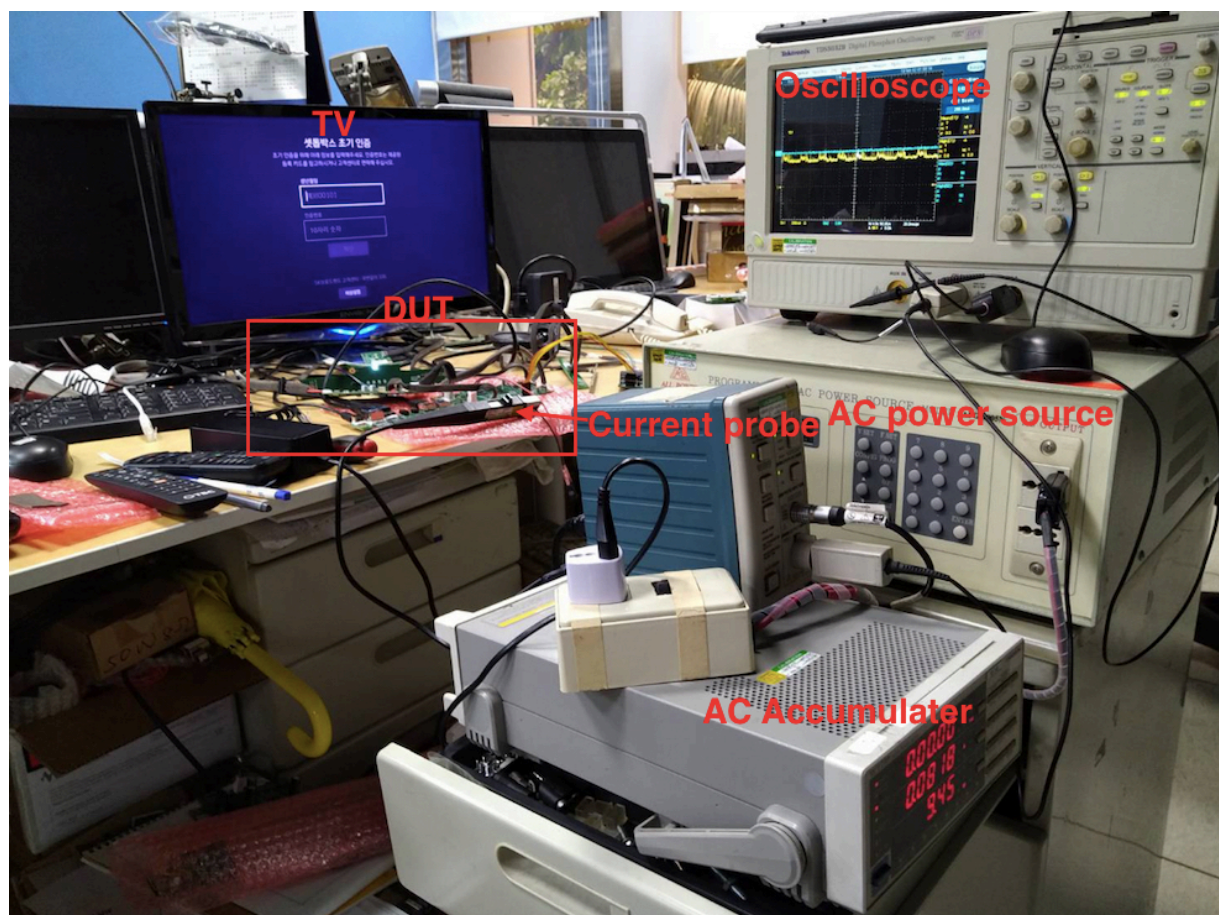
1. Test place: FXN CNSBG Building 1F office
2. Test DUT name: BFX-UA300 DVT V125 board
3. Test environment condition: temperature: 25 deg-C, humidity: 65
4. Test date: 2021/05/27
5. Test result: See section 3 for test results.
6. Test setup picture (block diagram and real test environment picture)

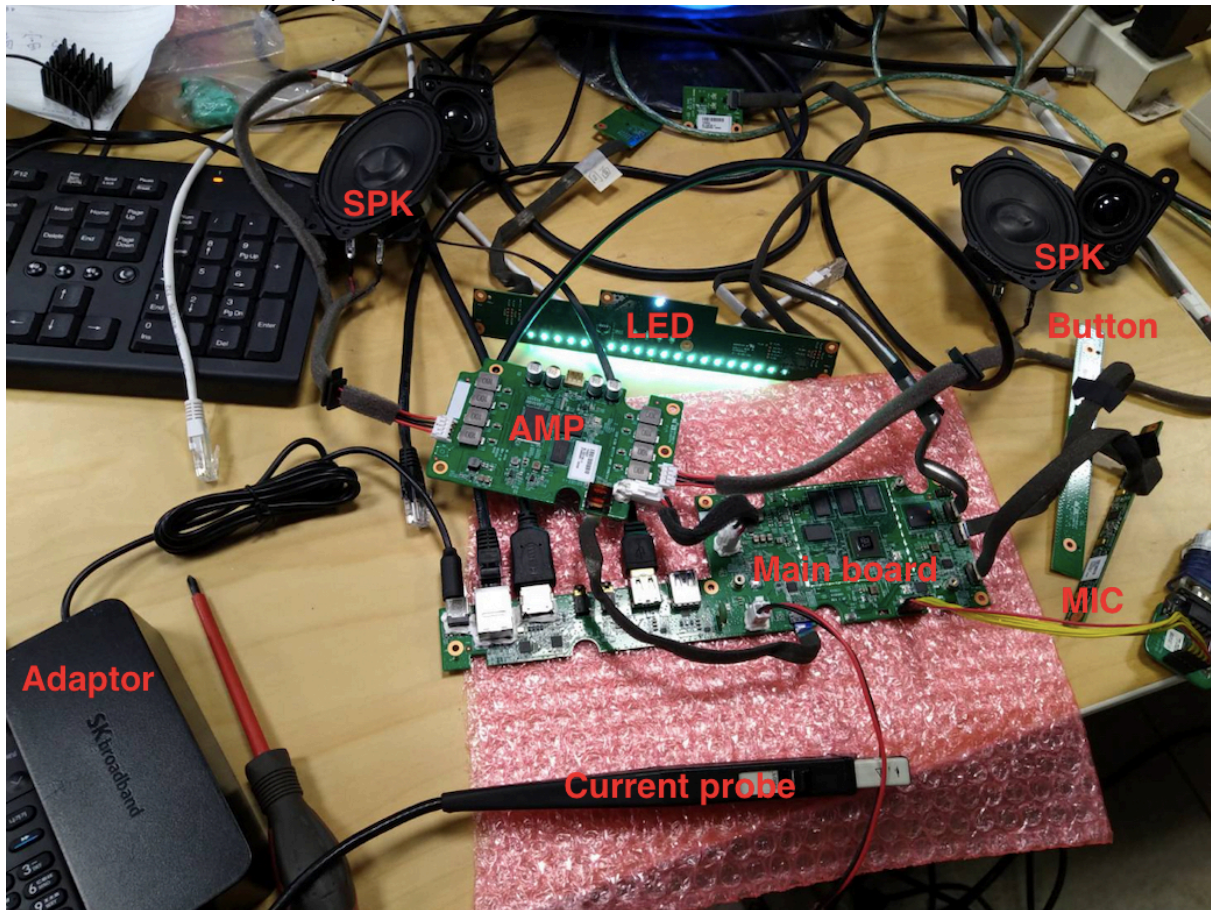
BFX-UA300 V125 Hardware unit test report

Block Diagram:



Test setup picture:





2. Test Items and Condition

1. Active standby mode

1. DUT power on
2. Press RCU power on/off key to off the TV.

Due to the RCU key cannot control main board into active standby mode, so the command:
su

test_disp hdmipwr off

Turn on/off AMP IC command:

1.Standby Mode On(power stage of AMP IC has a current of 0mA):

su

i2cset -f -y 0 0x2a 0x5d 0x0 b

i2cset -f -y 0 0x2b 0x5d 0x0 b

i2cset -f -y 0 0x2c 0x5d 0x0 b

i2cset -f -y 0 0x2d 0x5d 0x0 b

2.Standby Mode Off:

su

i2cset -f -y 0 0x2a 0x5d 0x1 b

i2cset -f -y 0 0x2b 0x5d 0x1 b

i2cset -f -y 0 0x2c 0x5d 0x1 b

i2cset -f -y 0 0x2d 0x5d 0x1 b

Turn off Status LED command:

```
echo 0 > /sys/class/leds/lp5036\:led9_mod/brightness
```

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

3. Test Result

DVT build power consumption:

3.1 Active standby mode [Adaptor: LA-A271KS 24V/4A]

Test Results of power consumption: F/W version: 19.524.21 (LAN: 1000M bps)			
Item No.	AC port BFX-UA300 DVT Board V115	DC port BFX-UA300 DVT Board V115	Remark
Active standby mode*	220Vac/0.0689A@60Hz, 6.3004W	24.0Vdc/0.2055A, 4.932W	

Note:

*: Active standby mode includes power down function by command to simulate RCU power on/off key. The test is after 10 minutes when DUT enters active standby mode.

Note1: The time test is from pressing button until to see the Home launcher of Google TV.

Boot-up time: TBD (press power button)

Wake-up time: TBD (press RCU power button)