

Hardware Unit Test Report

Power consumption Test and wake up time

Hardware version	FW version	Sample No.	eMMC Flash P/N
V015	r19 BTV-AT100 SKB TV version	S/N: 215200215-01S1	KLM8G1GETF-B041

1. IR Range Test Setup

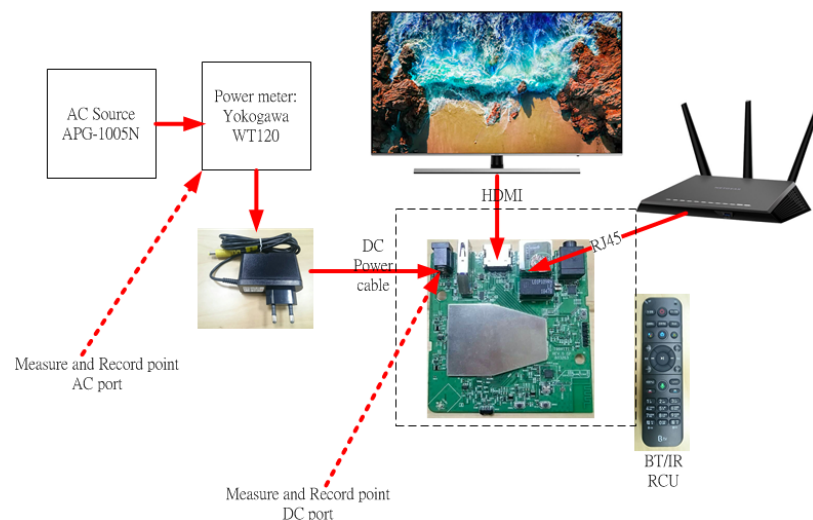
Equipment:

1. Eagle DVT board V015.
2. AC POWER: APG-1005N: 220Vac @60Hz
3. AC Adapter: BSY012U050200U 5V/2A
4. 4K HDR TV: Sony KD-55X9000E
5. Power meter with accumulator: Yokogawa WT210
6. Current probe: TCPA300

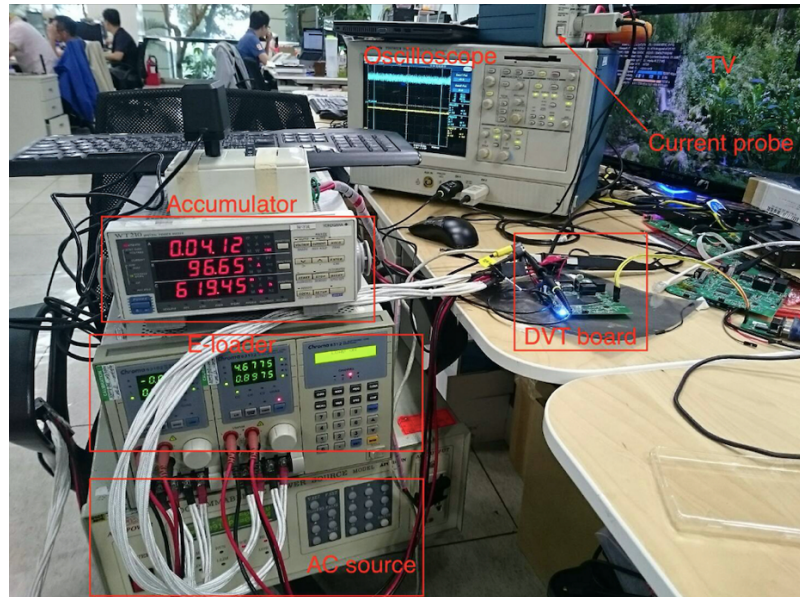
Test Environment:

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: 2019/5/14
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. normal state: ac port / dc port
 1. DUT power on
 2. Switch to TV mode and enter YouTube to play 4Kp60 video.
 3. Accumulating for 1 hour and record the power consumption result.
2. active standby state: ac port / dc port
 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. passive standby state: ac port / dc port
NA
4. Full load (with usb 900mA): ac port / dc port
 1. DUT power on
 2. Enter YouTube and play 4Kp60 video
 3. Add 900mA load from E-Loader
 4. Accumulating for 1 hour and record the power consumption result.
5. active standby wake up time
 1. DUT power on
 2. Place display screen at UI display
 3. Press power key of RCU to enter standby state from normal state.
 4. Wait for server minutes and press power key of RCU to wake up DUT
 5. Measure the wake up time and repeat 10 times for average and record the test time results.
6. passive standby wake up time
NA

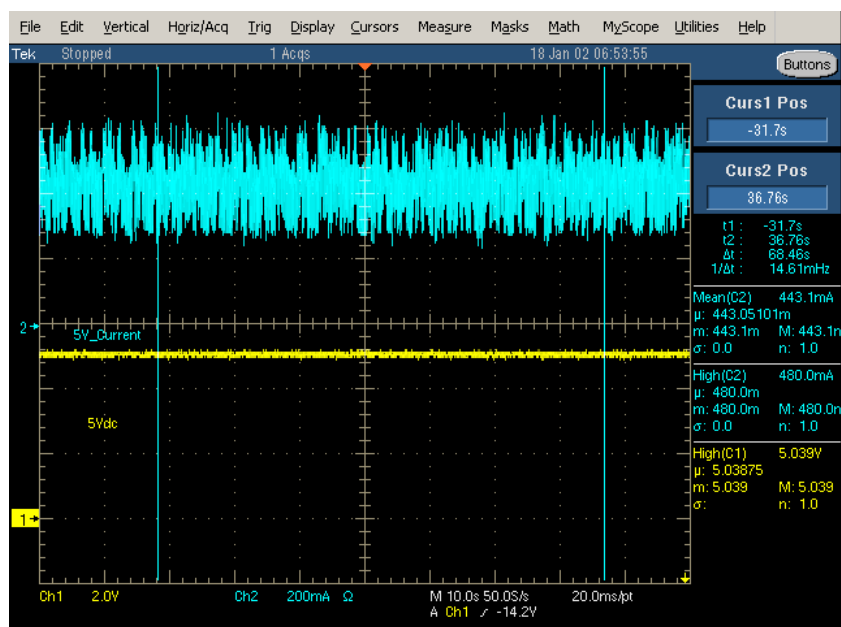
Note: accumulate at least 1 hour

3. Test Result

Test Results of power consumption: F/W version: r19 BTV-AT100 SKB TV version		
Item No.	AC port Eagle Board V015	DC port Eagle Board V015
1. Normal state	220Vac/34.5mA @60Hz, 3.0477Wh	5.039Vdc/443.1mA, 2.23W
2. active standby state	220Vac/22.6mA @60Hz, 1.7222Wh	5.119Vdc/227.8mA, 1.17W
3. Passive standby state	NA	NA
4. Full load (with usb 900mA)	220Vac/96.5mA @60Hz, 8.8052Wh	4.959Vdc/1365mA, 6.77W

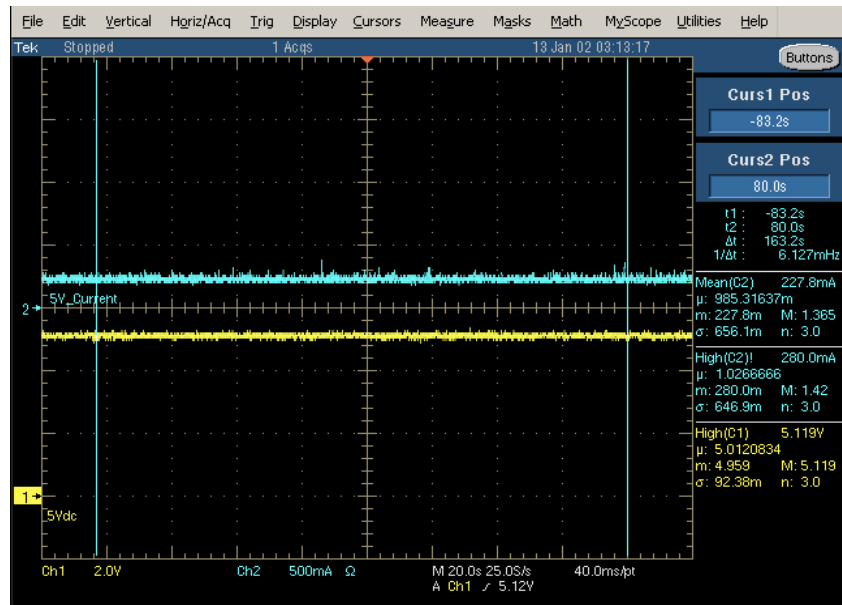
Booting time of power consumption: F/W version: r19 BTV-AT100 SKB TV version		
Item describe	behavior	Eagle board V015
5. active state wake up time	normal state-->active standby	< 2 seconds
	active standby-->normal state	< 2 seconds
6. Passive state wake up time	normal state-->active standby	NA
	active standby-->normal state	NA

DC port current-normal state:



DC port current-active standby state:

BFX-AT100 V015 Hardware unit test report



DC port current-full load state:

