

Power Consumption

1. Customer Specification:5V/2A

2. Test 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

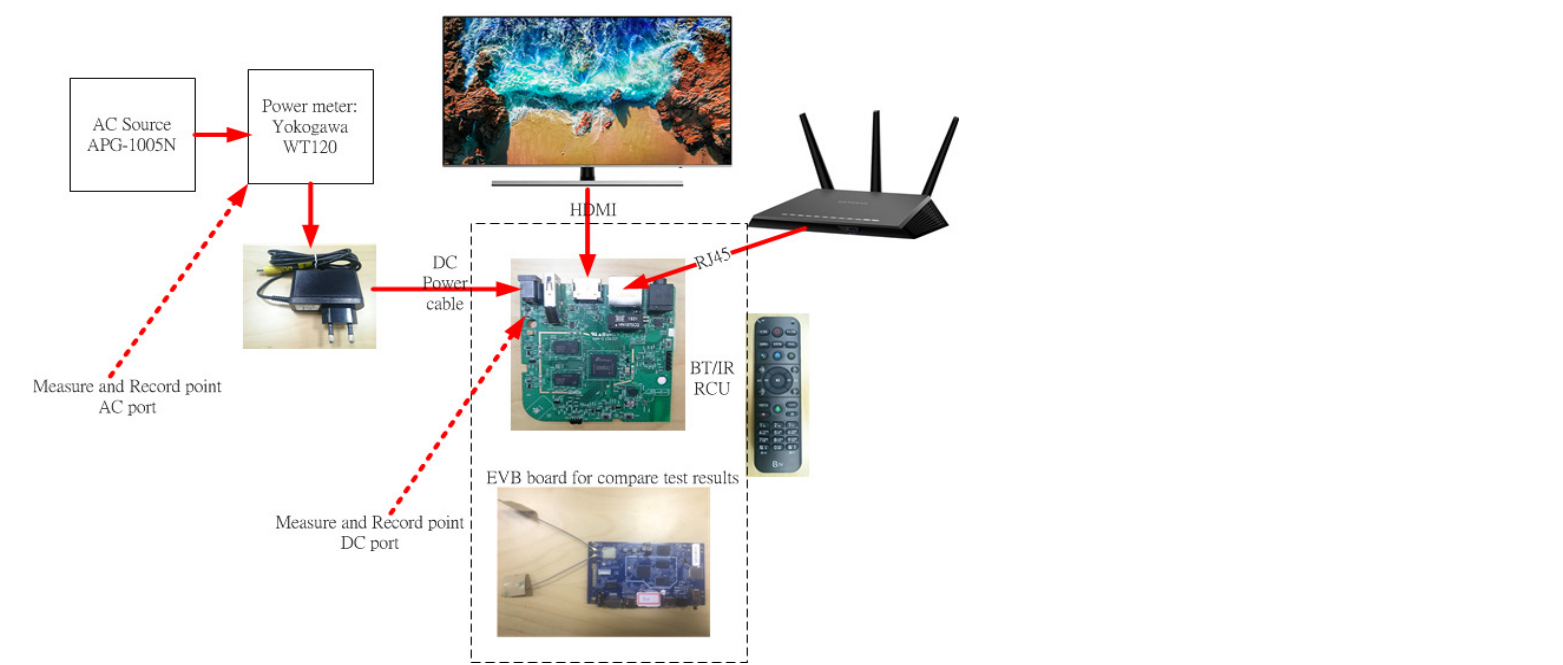
3. Test Items and Condition:
1. normal state : ac port / dc port 2. active standby state : ac port / dc port 3. passive standby state : ac port / dc port 4. Full load (with usb 900mA) : ac port / dc port 5. active standby wake up time 6. passive standby wake up time accumulate at least 1 hour

4. 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 process: Normal state: 1. DUT power on 2. Place display screen at UI display 3. Accumulating for 1 hour and record the power consumption result. Active standby state: 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. Full load(with usb 900mA) 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. 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. Test result: See 5th test results. 7. Test setup picture (block diagram and real test environment picture)

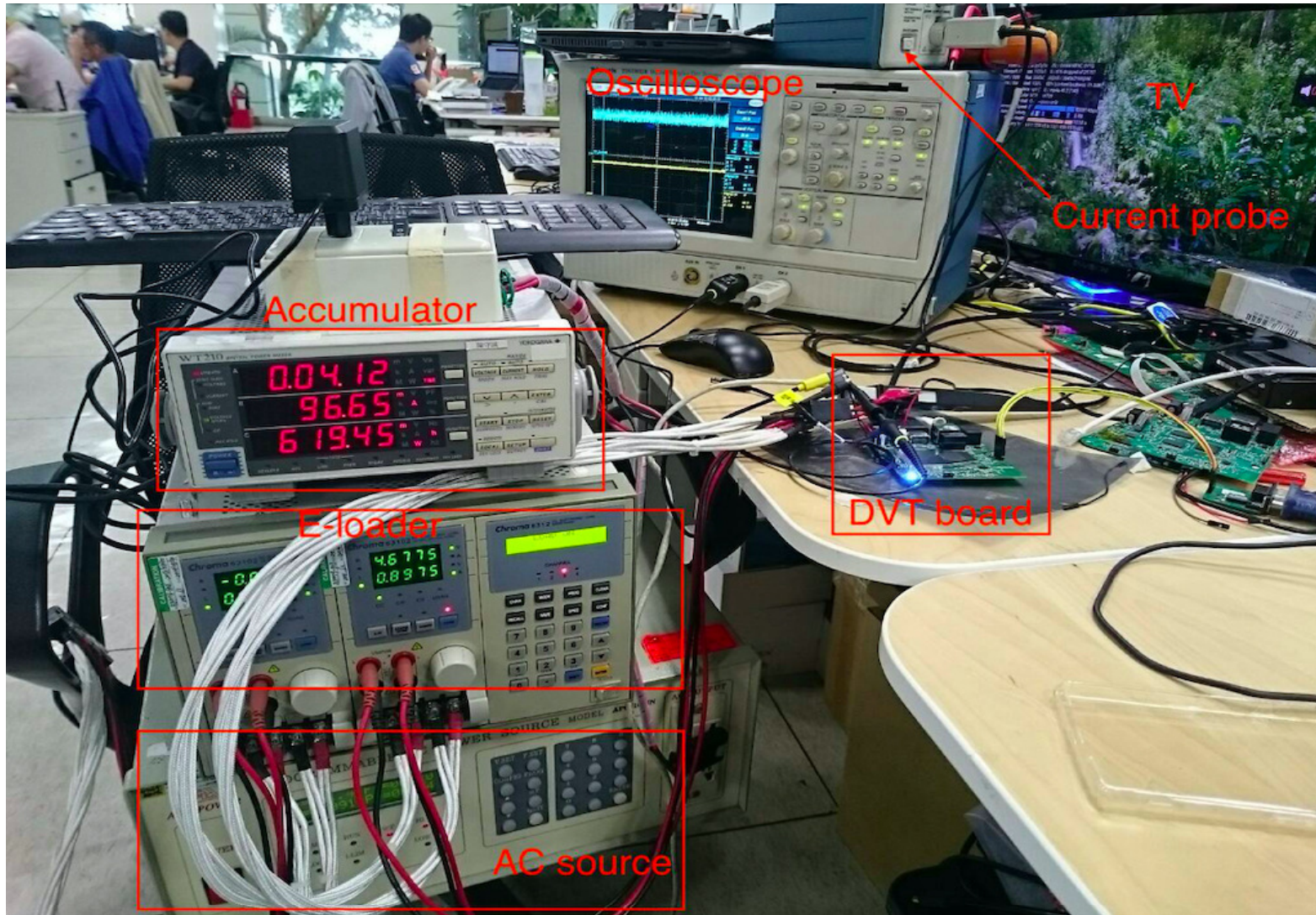
5. Test Results: F/W version: r19 BTV-AT100 SKB TV version					
Item No. (please refer section 3 for the detailed test condition)	AC port Eagle Board V015	DC port Eagle Board V015			
1. Nornal state	220Vac/26.3mA @60Hz, 2.1161Wh	5.119Vdc/285.8mA, 1.46W			
2. acitve standby state	220Vac/22.6mA @60Hz, 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			

5.1 Booting time: 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		

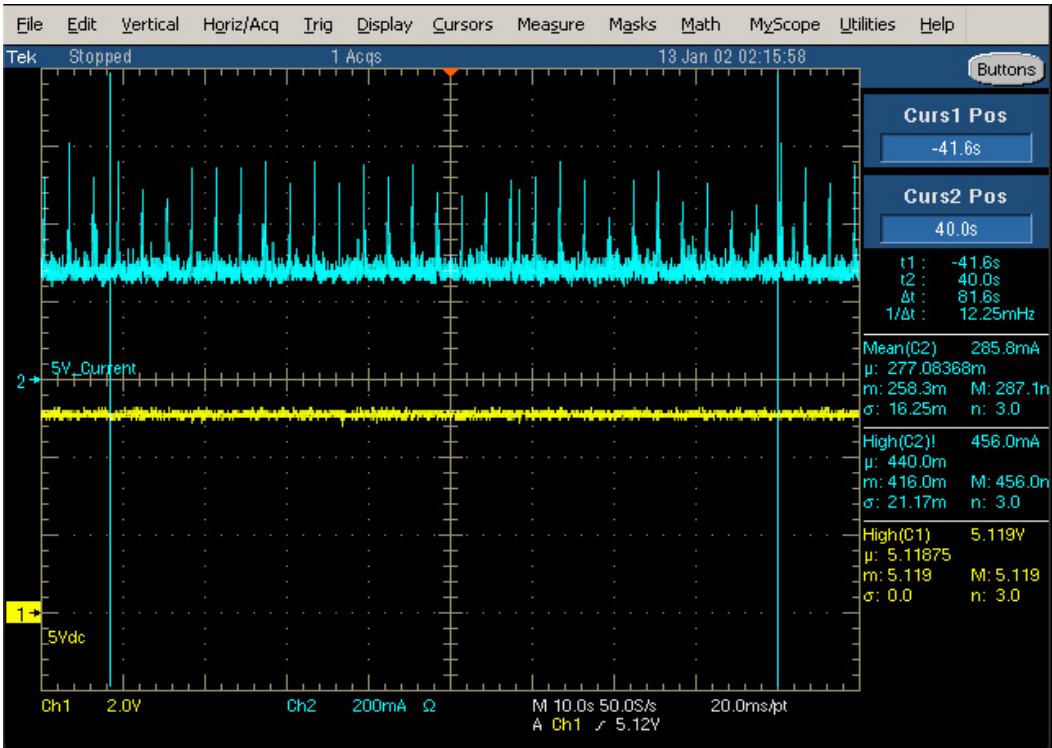
Block Diagram



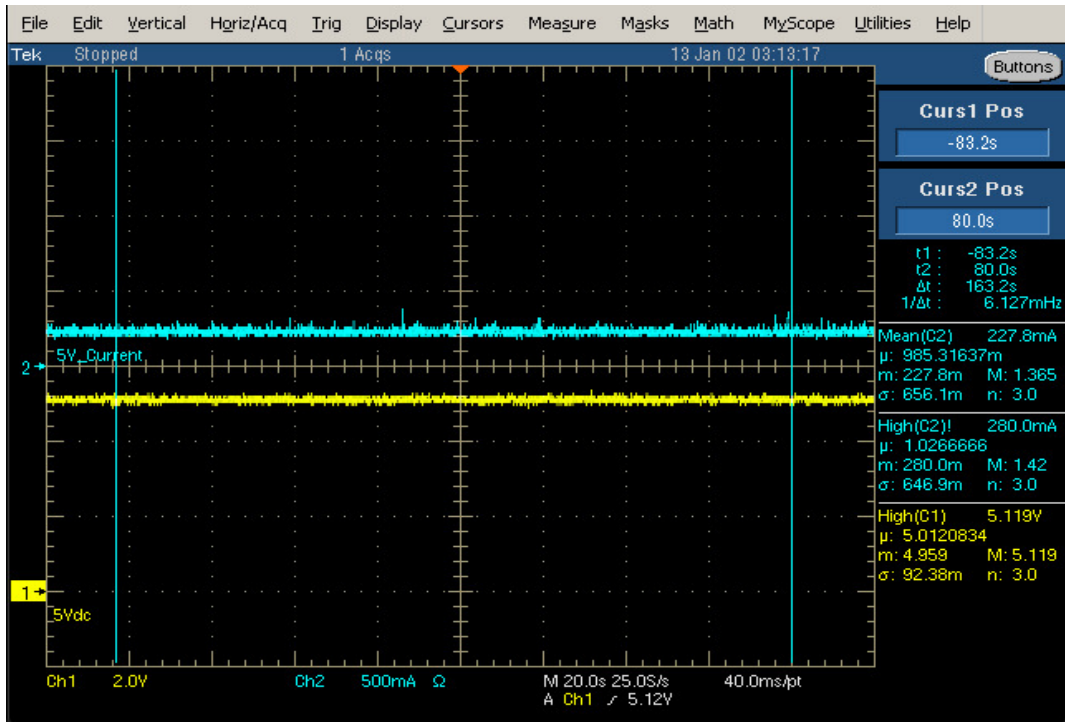
Test setup picture



DC port current—normal state



DC port current—active standby state



DC port current–full load state

