

Hardware Unit Test Report

DC (5V) plug in test

Hardware version	FW version	Sample No.	eMMC Flash P/N
V015	4.9.113 #3 Tue Apr 23 14:54:40 CST 2019 Build BFX_AT100-eng 9 PI 20190423 release-keys	S/N: 2154001662-01S1	KLM8G1GETF-B041

1. Test Setup

Equipment:

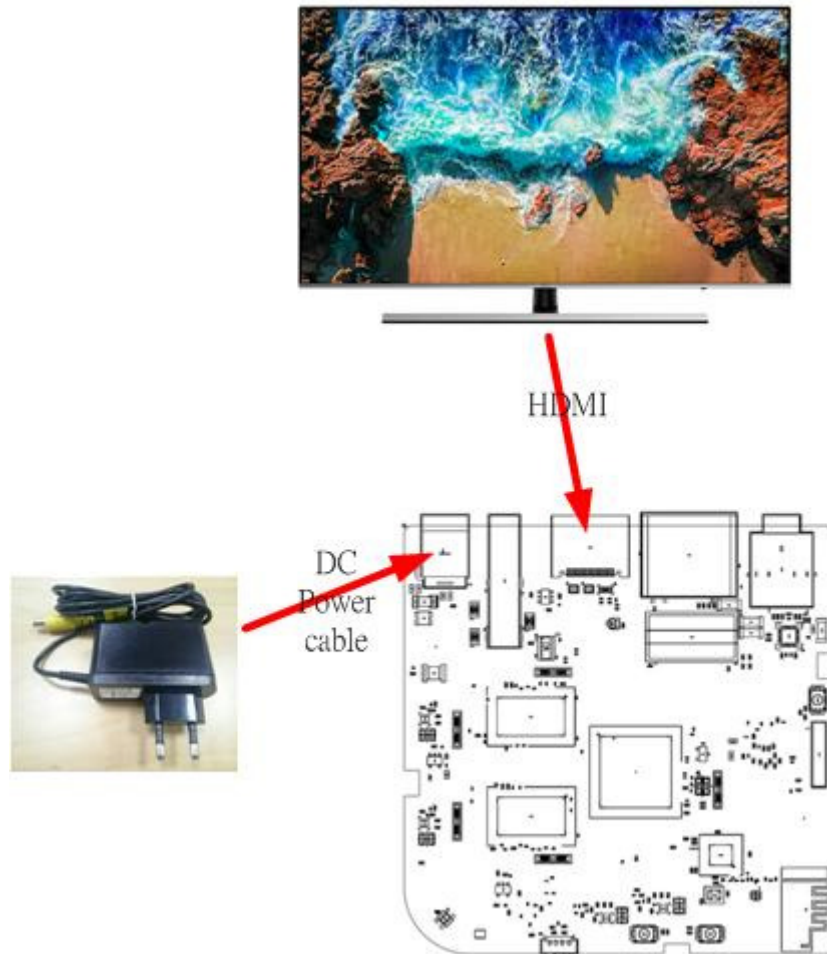
1. Eagle DVT board V015.
2. AC POWER: 110V input/ 220V input
3. Adapter model: Editech TYPE2541 5V/2A



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: 2019/8/23
5. Test result: See section 3 for test results.
6. Test setup picture (block diagram)

Block Diagram:



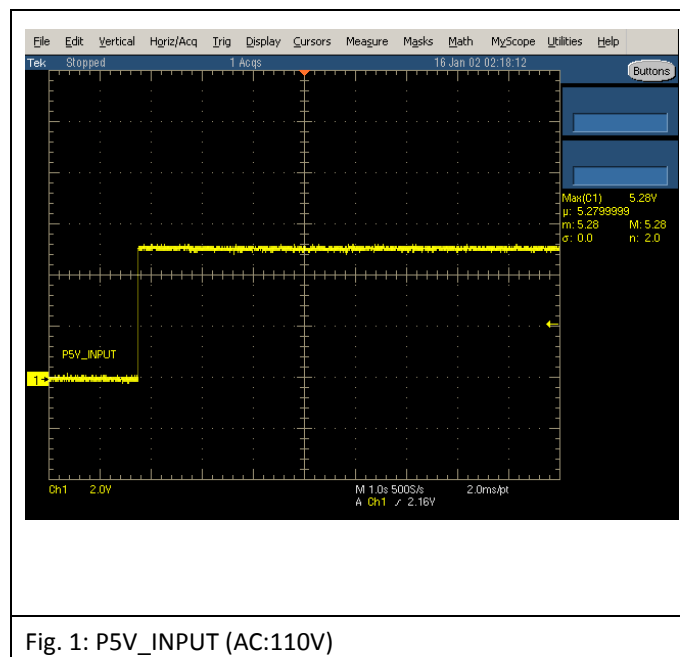
2. Test Items and Condition

1. DC plug in
2. Waiting for the monitor display home menu
3. Stop the measurement of oscilloscope

3. Test Result

3.1. AC: 110V

Fig.1 shows 5V input level from DC plug in to HDMI output using SK broadband adapter.



Zoom in the scale, Fig.2 shows the overshoot maximum voltage is 7.52V within the e-fuse tolerance spec (20V).

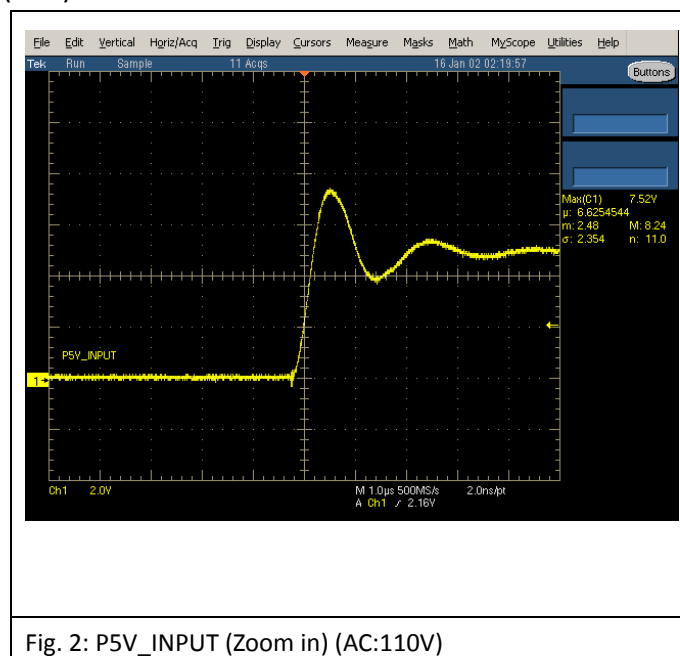


Fig.3 shows inrush current when DC plug in. The Maximum current is 568.0mA.

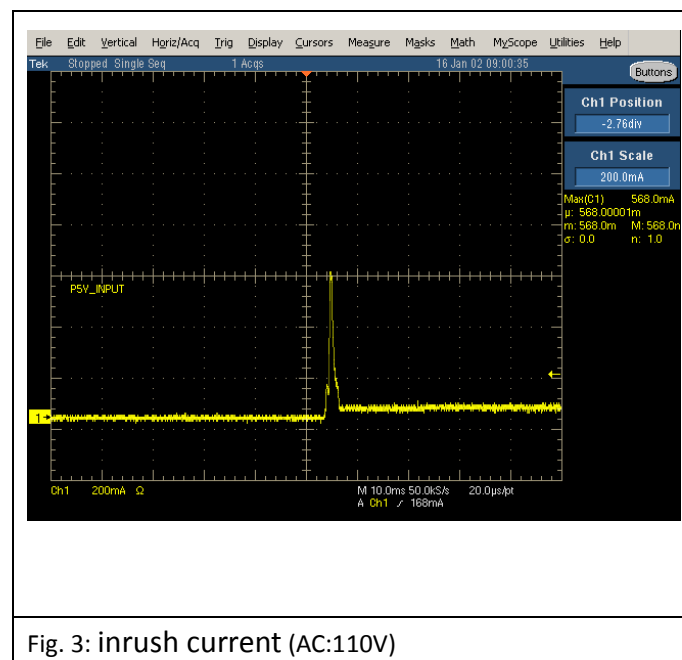


Fig. 3: inrush current (AC:110V)

3.2. AC: 220V

Fig.3 shows 5V input level from DC plug in to HDMI output using SK broadband adapter.

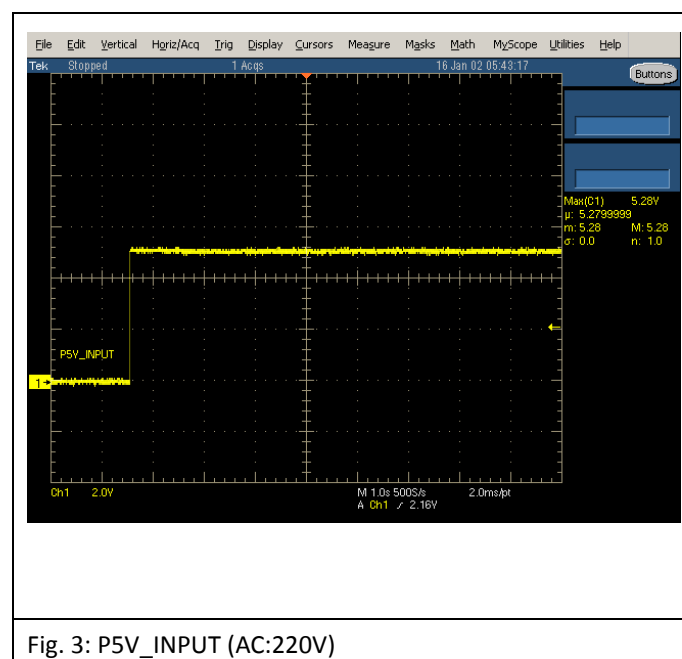


Fig. 3: P5V_INPUT (AC:220V)

Zoom in the scale, Fig.4 shows the overshoot maximum voltage is 7.76V within the e-fuse tolerance spec (20V).

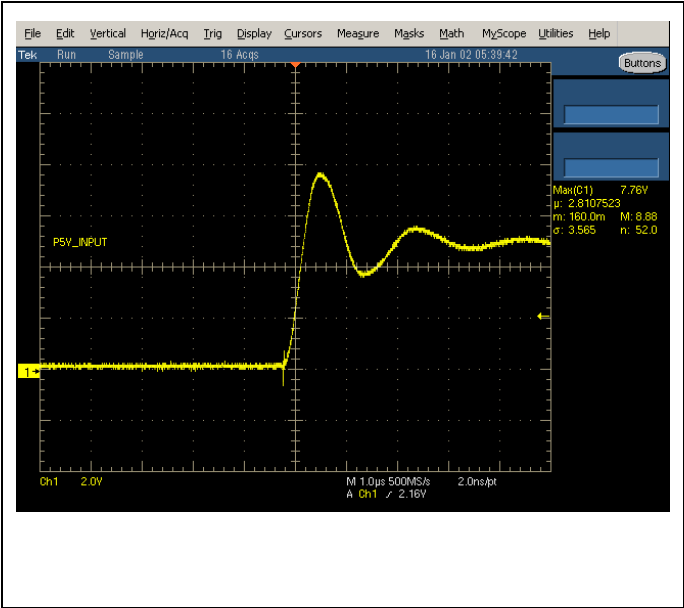


Fig. 4: P5V_INPUT (Zoom in) (AC:220V)

Fig.6 shows inrush current when DC plug in. The Maximum current is 584.0mA.

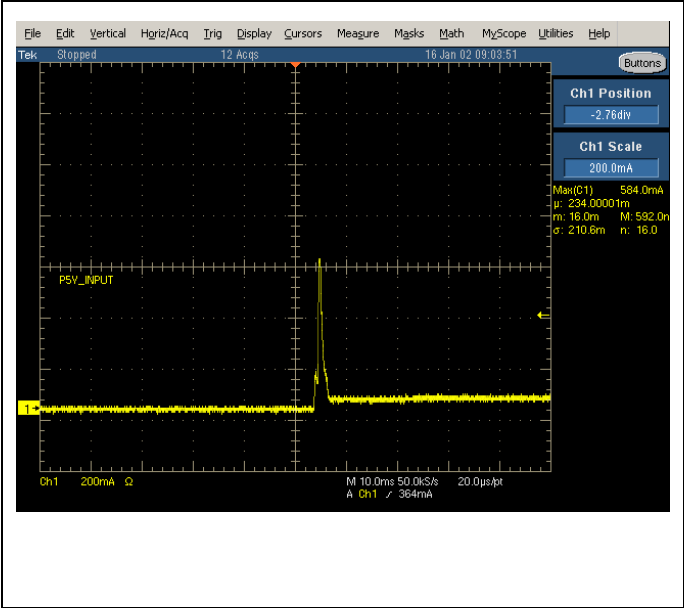


Fig. 3: inrush current (AC:220V)