

BFX-AT100

Hardware Unit Test Report

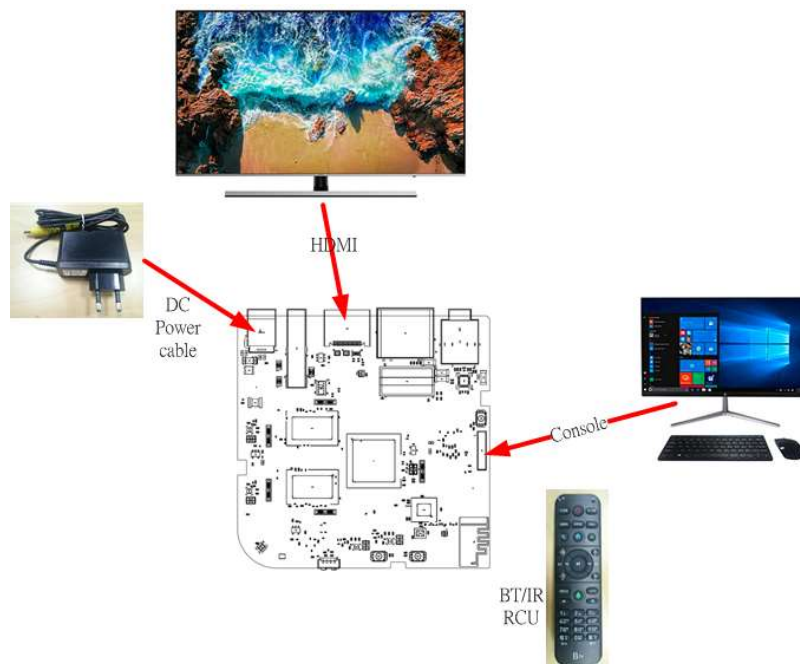
DDR Stress Test

Data read, write, verify test

Hardware version	FW version	Sample No.	eMMC Flash P/N
V015	4.9.113 #29 Fri May 10 19:27:56 CST 2019 Build BFX_AT100-eng 9 PI 20190510 release-keys	S/N:	KLM8G1GETF-B041

1. DDR Stress Test Setup

Data read, write, verify test



2. Test Command

```
adb connect box_ip
adb push stressapptest.bin /data/
adb shell
su
chmod 777 /data/stressapptest.bin
/data/stressapptest.bin -s 62300 -i 2 -m 2 -M 300 -W --pause_delay 180 --
pause_duration 10
```

Note: 62300 is second number, totally there are 17.3 hrs.

3. Test Condition

Purpose: The test time must over 12 hrs which Amlogic ever did the DDR test and without any error. The pattern keeps read and write through DDR and check the data has any error. If any bit has wrong, the test results will show error at final checking result. Here we setup over 12 hrs to 17.3 hrs suggested by Amlogic.

Content setup: Play 4Kp60 video repeat. The video is placed at local eMMC and use MoviePlayer.app to play video.

Console: For test command and run stressapptest.bin provided by amlogic for testing.

Environment: 25 degree-C room temperature.

4. Result and Picture

The test result after 17.3hrs is pass.

```
2019/05/17-10:17:02(CST) Stats: Found 0 hardware incidents
2019/05/17-10:17:02(CST) Stats: Completed: 127723056.00M in 62301.97s 2050.06MB/s, with 0 hardware incidents, 0 errors
2019/05/17-10:17:02(CST) Stats: Memory Copy: 101742808.00M at 1633.08MB/s
2019/05/17-10:17:02(CST) Stats: File Copy: 0.00M at 0.00MB/s
2019/05/17-10:17:02(CST) Stats: Net Copy: 0.00M at 0.00MB/s
2019/05/17-10:17:02(CST) Stats: Data Check: 0.00M at 0.00MB/s
2019/05/17-10:17:02(CST) Stats: Invert Data: 25980248.00M at 417.01MB/s
2019/05/17-10:17:02(CST) Stats: Disk: 0.00M at 0.00MB/s
2019/05/17-10:17:02(CST)
2019/05/17-10:17:02(CST) Status: PASS - please verify no corrected errors
2019/05/17-10:17:02(CST)
```

Slice log:

2019/05/17-10:17:02(CST) Stats: Found 0 hardware incidents

2019/05/17-10:17:02(CST) Stats: Completed: 127723056.00M in 62301.97s

2050.06MB/s, with 0 hardware incidents, 0 errors

2019/05/17-10:17:02(CST) Stats: Memory Copy: 101742808.00M at

1633.08MB/s

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2019/05/17-10:17:02(CST) Stats: Invert Data: 25980248.00M at 417.01MB/s

2019/05/17-10:17:02(CST) Stats: Disk: 0.00M at 0.00MB/s

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2019/05/17-10:17:02(CST) Status: PASS - please verify no corrected errors