

Hardware Unit Test Report

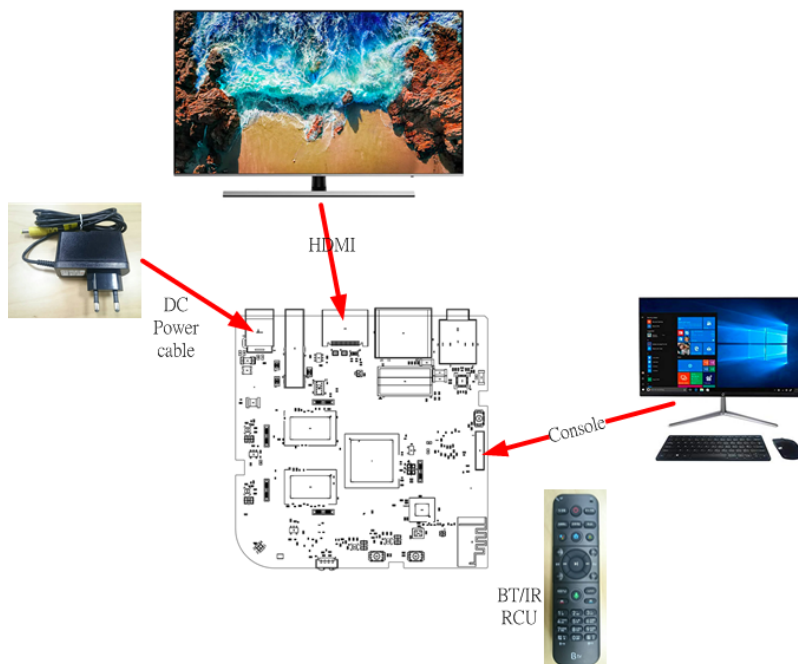
DDR Stress Test

Data read, write, verify test

Hardware version	FW version	Sample No.	eMMC Flash P/N
V005	4.9.113 #1 Mon Feb 26 16:03:31 CST 2019 Build BFX_AT100-eng 9 PI 20190226 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 62100 -i 2 -m 2 -M 300 -W --pause_delay 180 --pause_duration 10
```

Note: 62100 is second number, totally there are 17.25 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 17.25 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 17.25hrs is pass.

```
2015/01/01-17:33:09(GMT) Stats: Found 0 hardware incidents
2015/01/01-17:33:09(GMT) Stats: Completed: 176640096.00M in 62100.90s 2844.40MB/s, with 0 hardware incidents, 0 errors
2015/01/01-17:33:09(GMT) Stats: Memory Copy: 138495200.00M at 2230.18MB/s
2015/01/01-17:33:09(GMT) Stats: File Copy: 0.00M at 0.00MB/s
2015/01/01-17:33:09(GMT) Stats: Net Copy: 0.00M at 0.00MB/s
2015/01/01-17:33:09(GMT) Stats: Data Check: 0.00M at 0.00MB/s
2015/01/01-17:33:09(GMT) Stats: Invert Data: 38144904.00M at 614.24MB/s
2015/01/01-17:33:09(GMT) Stats: Disk: 0.00M at 0.00MB/s
2015/01/01-17:33:09(GMT)
2015/01/01-17:33:09(GMT) Status: PASS - please verify no corrected errors
2015/01/01-17:33:09(GMT)
```

Slice log:

2015/01/01-17:33:09(GMT) Stats: Found 0 hardware incidents

2015/01/01-17:33:09(GMT) Stats: Completed: 176640096.00M in 62100.90s 2844.40MB/s, with 0 hardware incidents, 0 errors

2015/01/01-17:33:09(GMT) Stats: Memory Copy: 138495200.00M at 2230.18MB/s

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2015/01/01-17:33:09(GMT) Stats: Net Copy: 0.00M at 0.00MB/s

2015/01/01-17:33:09(GMT) Stats: Data Check: 0.00M at 0.00MB/s

2015/01/01-17:33:09(GMT) Stats: Invert Data: 38144904.00M at 614.24MB/s

2015/01/01-17:33:09(GMT) Stats: Disk: 0.00M at 0.00MB/s

2015/01/01-17:33:09(GMT)

2015/01/01-17:33:09(GMT) Status: PASS - please verify no corrected errors

2015/01/01-17:33:09(GMT)