

EPD-230/232

2021Q4 Release Patch Test Report

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|---------------------|------------|--------------------|----------|
| Initiated by | Luke Chang | Approved by | Shane GH |
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Revision History :

| Date | Revision | Description | Creator |
|------------|----------|--|------------|
| 2022/05/10 | V1.0 | iDesign Number: 2442-091 EPD-230*160pcs EPD-232*37 個 Refer to DQA test plan | Luke Chang |

Test Results Definition :

| Criteria | Definition |
|---------------------------|--|
| PASS | Test result pass and function work perfectly. |
| Fail | Test fail or can not meet the spec requirement. |
| Limitation | There are no plans to fix this erratum. |
| N/A | Spec not support or driver not ready. |
| Check Next Version | HW modified circuit and solution 3erified, and check the function result has pass. Need to check next version. |

Test Results Summary :

| Num. | Test Item | Result | Remark |
|-----------|--------------------------------|---------------------------|--------|
| 1. | ePaper Manager Function | | |
| 1.01 | ePaper Manager function test | PASS | |
| 2. | Stability | | |
| 2.01 | Performance Test | Check Next Version | |

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System Configuration :

| Item. | Version | File Name | Description. |
|-----------------------|-------------------|--|----------------|
| OS | Ubunto 18.04 | EPDWT_ARK1123HA2_U1804_1703 | 32OSARKE000106 |
| ePaper Manager | 1703 | Image build-in | |
| EPD Portal | 1.9.2 | ePaper Manager build-in | |
| EPD Hub | 1.4.6 | ePaper Manager build-in | |
| WISE-3240 | 3240S01OIV0113B01 | 3240S01OIV0113B01.bin | 2080010159 |
| WISE-1840 | 1840S00TMV1005 | 1840-v1.0.5.0- 1804d6ac9d80ec091111270ea8cb8fb6. zip | 2080010183 |
| EPD-230 | EPD023BS00TMV1012 | EPD023BS00TMV1012.bin | |
| EPD-232 | EPD023RS00TMV1008 | EPD023RS00TMV1008.bin | |

Test Equipment :

| Item. | Description. |
|--------------|---|
| ARK-1123H A2 |  |
| WISE-3240 |  |
| EPD-230/232 |  |

1. ePaper Manager Function

1.01 ePaper Manager function test

1.01.01 EPD Controller

1.01.01.01 Test Purpose :

This test ensures that the functions provided in EPD server Web interfaces are working as designed.

1.01.01.02 Test Tool or Equipment:

1. ARK-1123H A2 as ePaper Manager server
2. WISE-3240 as EPD Router
3. EPD-230/232 as EPD device

1.01.01.03 Testing Configuration:

1. Test environment: Room temperature

1.01.01.04 Test Procedure:

1. Test all the available web GUI functions in the EPD Controller category.

1.01.01.05 Test Result:

| Item | Sub Item | Funcitons | Result | Remark |
|-------------------|----------|------------------|--------|--------|
| EPD Controller | Group | Roaming Function | PASS | |

2. Stability

2.01 Performance Test

2.01.01.01 Test Purpose :

To verify the button function is working correctly.

2.01.01.02 Test Tool or Equipment:

1. ARK-1123H A2 as ePaper Manager server
2. WISE-3240 as EPD Router
3. EPD-230/232 as EPD device

2.01.01.03 Testing Configuration:

1. Test environment: Room temperature

2.01.01.04 Test Procedure:

Retry

1. add 30~40 jobs for tag
2. disconnect tag
3. check if jobs can be completed in order with auto retry

Rejoin time

1. tag 和 router 皆上線
2. router 斷電(epaper manager 顯示下線)約 3mins
3. router 上電(epaper manager 顯示上線)約 3min <== 先確認 router 上線後開始計時
4. EPD-230.232: 200tag join 時間 15mins

Transmit time

1. 確認 tag 和 router 皆上線
2. 同時對 tag 刷圖(EPD-230.232: 200tag within 30 mins/EPD-230/232: 64tag within 50mins)
3. Schedule transmit data hourly and continue for 5 working days
4. EPD-230: [20s(data request)*2(頭尾)]+[1s(FTP 傳圖) + 5s(傳 TAG) +1s(Buffer)]*200+[8s(刷圖)*200*1/5]= about30mins

2.01.01.05 Test Result:

| Item | Criteria | Result | Remark |
|-------------|------------------------|--------------------|--------|
| EPD-230/232 | 197 tags retry jobs | PASS | |
| | 197 tags rejoin time | Check Next Version | |
| | 197 tags transmit time | PASS | 15'18" |