EPD-332
2021Q4 Release Patch Test Report

Initiated by	Luke Chang	Approved by	Shane GH

Revision History：

Date	Revision	Description	Creator
2022/05/10	V1.0	iDesign Number: 2443-070 EPD-332*46pcs for 2021 Q4 release patch	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**	

Table of Contents

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	3240S00OIV0113B01	3240S00OIV0113B01.bin	2080010159
WISE-1840	1840S00TMV1005	1840-v1.0.5.0-1804d6ac9d80ec091111270ea8cb8fb6.zip	2080010183
EPD-332	E053RS00TMV1009	EPD053RS00TMV1009.bin	

Test Equiptment：

Item.	Description.
ARK-1123H A2	
WISE-3240	
EPD-332	

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-332 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

2.01.01.01Test 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-332 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-332: 46 tag join 時間 5mins

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-332: 64tag within 50mins)
3. Schedule transmit data hourly and continue for **5** working days
4. EPD-332: [20s(data reqeust)*2(頭尾)]+[3s(FTP 傳圖) + 34s(傳 TAG) + 1s(Buffer)]*46+[33s(刷圖)*46*1/5]= about 1792 secs

2.01.01.05 Test Result:

Item	Criteria	Result	Remark
EPD-332	46 tags retry jobs	**PASS**	
	46 tags rejoin time	**Check Next Version**	46 Tags Within 5 minutes
	46 tags tramsmit time	**PASS**	15'03"