

EPD-770

EVT Function Test Report

Initiated by	Luke Chang	Approved by	Shane GH
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Revision History :

Date	Revision	Description	Creator
2021/09/01	V1.0	ARK1123H +WISE-3270 (4G)+ EPD-770 (epd-130x2)	Shane GH
2021/10/25	V1.1	EPD-770 上次只有測試 LTE,請加測試 WIFI & LAN 部分	Luke Chang
2022/03/11	V1.2	Add FW S/N by PM request	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
Chapter.1	System Function Test		
1.01	Browser Compatibility	PASS	
1.02	EPaper Manager function test	PASS	
1.03	Multiple Tags refresh-image Test	PASS	
Chapter.2	EPD Tags		
2.01	EPD-130	PASS	
Chapter.3	System Stability test		
3.01	Tag refresh-image Test	PASS	

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System Configuration :

Item.	Version	File Name	Description.
ARK-1123	ARK-1123H-U0A2E	ARK-1123H-U0A2E	
OS	Ubuntu 18.04	EPD_ARK1123HA2_U1804_1503	
ePaper Manager	v1503	Image build-in	
EPD Portal	1.7.3	ePaper Manager build-in	
EPD Hub	v1.1.1	ePaper Manager build-in	
WISE-3270	2080010093(3270S00OIV0109)	3270S00OIV0109.bin	
4G /LTE	EWM-C117FL06E	NA	
EPD-130B	EPD_CTRC01ODX0008Bdev-2605db9e-dev	NA	

Chapter.1 System Function Test

1.01 Browser Compatibility

1.01.01.01 Test Purpose :

To ensure EPaper Manager is compatibility with popular browser.

1.01.01.02 Test Tool or Equipment:

1. ARK-1123 as EPaper Manager server
2. EPD-130B as EPD device
3. WISE-3270 with EWM-C117FL06E

1.01.01.03 Testing Configuration:

1. Test environment: Room temperature

1.01.01.04 Test Procedure:

1. Plug DUT to ARK-1123.
2. Check Browser is working properly.

1.01.01.05 Test Result:

Item	Sub Item	Criteria	Result	Remark
Chrome	Login	Functions work properly as designed	PASS	
	Change Password		PASS	
	Overview chart		PASS	
	EPD controlling Preview and Transmit		PASS	
	Template design		PASS	
Firefox	Login	Functions work properly as designed	PASS	
	Change Password		PASS	
	Overview chart		PASS	
	EPD controlling Preview and Transmit		PASS	
	Template design		PASS	

1.02 EPaper Manager function test

1.02.01 Overview Page

1.02.01.01 Test Purpose :

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

1.02.01.02 Test Tool or Equipment:

1. ARK-1123 as ePaper Manager server
2. EPD-130B as EPD device
3. WISE-3270 with EWM-C117FL06E

1.02.01.03 Testing Configuration:

1. Test environment: Room temperature

1.02.01.04 Test Procedure:

1. Test all the available web GUI functions.

1.02.01.05 Test Result:

Item	Sub Item	Funcitons	Result	Remark
Overview	Device Overview	Web shows the tag status, and the charts and links are correct.	PASS	
	Effective Scheduled Task	List coming schedules for device and group Can enable / disable / delete schedule	PASS	

1.02.02 EPD Controller**1.02.02.01 Test Purpose :**

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

1.02.02.02 Test Tool or Equipment:

1. ARK-1123 as ePaper Manager server
2. EPD-130B as EPD device
3. WISE-3270 with EWM-C117FL06E

1.02.02.03 Testing Configuration:

1. Test environment: Room temperature

1.02.02.04 Test Procedure:

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

1.02.02.05 Test Result:

Item	Sub Item	Funcitons	Result	Remark	
EPD Controller	Account	Change account and check privilege	PASS		
	Group	Switch and search Device group	PASS		
	Status	Filter the device status	PASS		
	Mode	Switch to Group mode, and can list / edit group schedules.	PASS		
	Search	Search for device by keyword	PASS		
	Columns	Display selected columns	PASS		
	Bind / Unbind Item	Bind Item, Select Template	PASS		
	Preview	Preview template	PASS		
	Refresh	Send refresh command to EPD device	PASS		
	Transmit	Transmit template to EPD device	PASS		
	Carousel Mode	Carousel Mode Transmit template (EPD-130)		PASS	
		Carousel mode loop enable/disable control		PASS	
		full image update		PASS	
		Carousel mode page/sequence control		PASS	
		Carousel mode time interval		PASS	
Carousel mode after reset		PASS			
Reset Tags	Reset tag status		PASS		
Schedule	Add, Edit , delete schedule		PASS		

1.02.03 Item Data**1.02.03.01 Test Purpose :**

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

1.02.03.02 Test Tool or Equipment:

1. ARK-1123, as ePaper Manager server
2. EPD-130B as EPD device
3. WISE-3270 with EWM-C117FL06E

1.02.03.03 Testing Configuration:

1. Test environment: Room temperature

1.02.03.04 Test Procedure:

1. Test all the available web GUI functions in the Item Data Category.

1.02.03.05 Test Result:

Item	Sub Item	Funcitons	Result	Remark
Item Data	Group	Can add, delete group	PASS	
	Upload new items	Can import item data from json, xls, xlsx, csv file	PASS	
	Add Items to current items	Can append items from json, xls, xlsx, csv file	PASS	
	Search	Can search keywords in content	PASS	
	Columns	Can show selected columns	PASS	
	Help	Show help hint	PASS	
	Fields sorting function	Data sorting by fields	PASS	
	Pages control	Show rows in 1page Go to x page	PASS	

1.02.04 Device List**1.02.04.01 Test Purpose :**

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

1.02.04.02 Test Tool or Equipment:

1. ARK-1123, as ePaper Manager server
2. EPD-130B as EPD device
3. WISE-3270 with EWM-C117FL06E

1.02.04.03 Testing Configuration:

1. Test environment: Room temperature

1.02.04.04 Test Procedure:

1. Test all the available web GUI functions in the Device List category.

1.02.04.05 Test Result:

Item	Sub Item	Funcitons	Result	Remark
Device List	Account	Change account and check priledge	PASS	
	Group	Search Device group	PASS	
	Status	Filter the device status	PASS	
	Mode	Switch to Group mode, and can schedule group schedule.	PASS	
	Add Device	Can add device from registerd list	PASS	
	Edit mode	Enter Edit mode can delete device	PASS	
	Delete	Enter Edit mode can delete device	PASS	
	View detail Tag info	Shows the tag detail info	PASS	
	View detail Router info	Shows the Router info	PASS	

1.02.05 Gallery**1.02.05.01 Test Purpose :**

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

1.02.05.02 Test Tool or Equipment:

1. ARK-1123 as ePaper Manager server
2. EPD-130B as EPD device
3. WISE-3270 with EWM-C117FL06E

1.02.05.03 Testing Configuration:

1. Test environment: Room temperature

1.02.05.04 Test Procedure:

1. Test all the available web GUI functions in the Template category.

1.02.05.05 Test Result:

Item	Funcitons	Result	Remark
Item Group	Item Group Selection	PASS	
Upload Photos	Upload Photos For Tempelate Edition	PASS	
Select All	Select All Photos	PASS	
Delete Photos	Delete Selected Photos	PASS	

1.02.06 Template**1.02.06.01 Test Purpose :**

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

1.02.06.02 Test Tool or Equipment:

1. ARK-1123 as ePaper Manager server
2. EPD-130B as EPD device
3. WISE-3270 with EWM-C117FL06E

1.02.06.03 Testing Configuration:

1. Test environment: Room temperature

1.02.06.04 Test Procedure:

1. Test all the available web GUI functions in the Template category.

1.02.06.05 Test Result:

Item	Sub Item	Funcitons	Result	Remark
GUI functions	Add	Based on current one Create brand new one	PASS	
	Delete	Delete template	PASS	
	Save	Save template	PASS	
	Label	Item function check	PASS	
	Text	Item function check	PASS	
	Image	Supported image format Show condition	PASS	
	Shape	Item function check	PASS	
	Barcode	Value Barcode type Sample Show condition	PASS	
	QRcode	Value Sample Show Condition	PASS	
	Canvas property	Item function check	PASS	

1.02.07 Setting**1.02.07.01 Test Purpose :**

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

1.02.07.02 Test Tool or Equipment:

1. ARK-1123 as ePaper Manager server
2. EPD-130B as EPD device
3. WISE-3270 with EWM-C117FL06E

1.02.07.03 Testing Configuration:

1. Test environment: Room temperature

1.02.07.04 Test Procedure:

1. Test all the available web GUI functions.

1.02.07.05 Test Result:

Item	Sub Item	Funcitons	Result	Remark
Setting	Role	Can view role priviledge	PASS	
	Account	Can add admin, device admin account	PASS	
	Device Group	Add, Edit , Delete device group	PASS	
	System	Can enable/disable Email Service , Active License, and Clear Data	PASS	
	Event	Can view, search, and export event log	PASS	

1.02.08 Document**1.02.08.01 Test Purpose :**

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

1.02.08.02 Test Tool or Equipment:

1. ARK-1123 as ePaper Manager server
2. EPD-130B as EPD device
3. WISE-3270 with EWM-C117FL06E

1.02.08.03 Testing Configuration:

1. Test environment: Room temperature

1.02.08.04 Test Procedure:

1. Test all the available web GUI functions.

1.02.08.05 Test Result:

Item	Sub Item	Funcitons	Result	Remark
Document	User Manual	Link to user manual	PASS	
	RESTful API	Shows API usage document	PASS	

1.03 Multiple Tags refresh-image Test

1.03.01.01 Test Purpose :

Confirm whether the function of 2 Tag refresh-image is normally.

1.03.01.02 Test Tool or Equipment:

1. ARK-1123
2. EPD-130 X2 PCS
3. WISE-3270 with EWM-C117FL06E

1.03.01.03 Testing Configuration:

1. Test environment: Room temperature

1.03.01.04 Test Procedure:

1. Upload image to multiple DUT (2pcs)

1.03.01.05 Test Result:

Item	Criteria	Result	Remark
Tag refresh-image test	No error happened while Tag refresh image	PASS	upload by LTE
	No error happened while Tag refresh image	PASS	upload by WIFI
	No error happened while Tag refresh image	PASS	upload by LAN

Chapter 2 : EPD Tags

2.01 EPD-130

2.01.01.01 Test Purpose :

To verify the button function is working correctly.

2.01.01.02 Test Tool or Equipment:

1. ARK-1123 as EPaper Manager server
2. EPD-130B EPD device
3. WISE-3270 with EWM-C117FL06E

2.01.01.03 Testing Configuration:

1. Test environment: Room temperature

2.01.01.04 Test Procedure:

1. Connect tag to ARK-1123
2. Create Template for EPD-130B
3. Transmit Image to Tag

2.01.01.05 Test Result:

Item	Criteria	Result	Remark
Tag refresh-image test	No error happened while Tag refresh image	PASS	upload by LTE
	No error happened while Tag refresh image	PASS	upload by WIFI
	No error happened while Tag refresh image	PASS	upload by LAN

Chapter 3 : System Stability test

3.01 Tag refresh-image Test

3.01.01.01 Test Purpose :

Confirm whether the function of Tag refresh-image is normally.

3.01.01.02 Test Tool or Equipment:

1. ARK-1123 as EPaper Manager server
2. EPD-130B EPD device
3. WISE-3270 with EWM-C117FL06E

3.01.01.03 Testing Configuration:

1. Test environment: Room temperature

3.01.01.04 Test Procedure:

1. Refresh image every 15 minutes for 7 days.

3.01.01.05 Test Result:

Item	Criteria	Result	Remark
Tag Refresh-Image Stress Test	<ol style="list-style-type: none"> 1. Image transfer every 15 minutes 2. Continuous image transmission for 7 days without any abnormal state 	PASS	upload by LTE
	<ol style="list-style-type: none"> 1. Image transfer every 15 minutes 2. Continuous image transmission for 7 days without any abnormal state 	PASS	upload by WIFI
	<ol style="list-style-type: none"> 1. Image transfer every 15 minutes 2. Continuous image transmission for 7 days without any abnormal state 	PASS	upload by LAN