

# **EPD-023**

## **Component Change Test Report**

**ARK-1123H A2+WISE-3240+EPD-023B/R**

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### Revision History :

Date	Revision	Description	Creator
2021/08/04	V1.0	iDesign Request ID: 2442-084	Shane GH

**Test Results Definition :**

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

**Test Results Summary :**

Num.	Test Item	Result	Remark
<b>1.</b>	<b>ePaper Manager Function</b>		
1.01	EPaper Manager function test	<b>PASS</b>	
<b>2.</b>	<b>EPD Tags</b>		
2.01	EPD-023	<b>PASS</b>	
<b>3.</b>	<b>Stability</b>		
3.01	Stability stress Test	<b>PASS</b>	




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**System Configuration :**

Item.	Version	File Name	Description.
<b>OS</b>	Ubuntu 18.04	EPD_ARK2250LA2_U1804_1503	
<b>ePaper Manager</b>	v1503	Image build-in	
<b>EPD Portal</b>	1.7.3	ePaper Manager build-in	
<b>EPD Hub</b>	v1.1.1	ePaper Manager build-in	
<b>WISE-3240</b>	3240S00OIV0112	3240S00OIV0112.bin	
<b>WISE-1840</b>	1840S00TMX1004	1840-v1.0.4.0- 6ee3c5a90baf8cb0cfe9d6c566bfe359.zip	
<b>EPD-023B/R3</b>	MV1007/ MV1005	EPD023B-v1.0.7.0- 1c1048dfb1d053b96c736f0d92539310.zip/ EPD023R-v1.0.5.0- 2bc061c99508cddd81cb4f53fa8e01fd.zip	

**Test Equipment :**

Item.	Description.
<p><b>ARK-1123H A2</b></p>	
<p><b>WISE-3240</b></p>	
<p><b>EPD-023B/R</b></p>	

## 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-023B/R as EPD device

##### 1.01.01.03 Testing Configuration:

1. Test environment: Room temperature

##### 1.01.01.04 Test Procedure:

1. Set up one WISE-3240 in area A and set up one WISE-3240 in area B
2. Roam tags by exchanging 25 tags from area A to area B and 25 tags from area B to area A.
3. After roaming, connect tags and transmit the template once a day and continue to five days.

##### 1.01.01.05 Test Result:

Item	Sub Item	Functions	Result	Remark
EPD Controller	Group	Roaming Function 50 TAGs roam once a day for 5 days *One Server with two routers	PASS	
	Transmit	Transmit template after roam.	PASS	



## 2. EPD Tags

### 2.01 EPD-023

#### 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-023R as EPD device

#### 2.01.01.03 Testing Configuration:

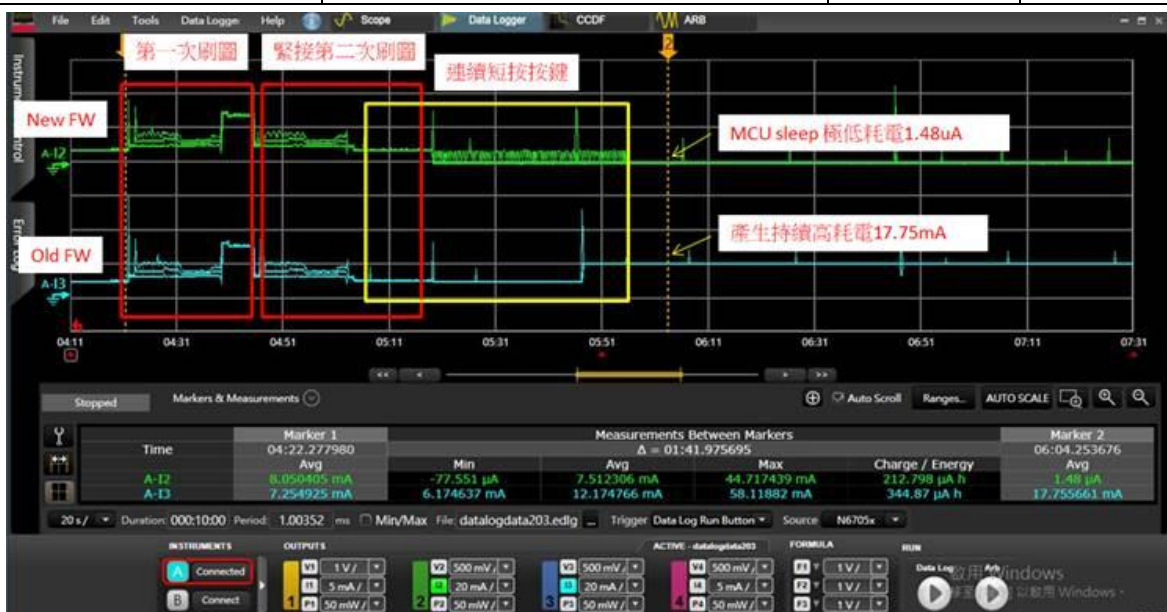
1. Test environment: Room temperature

#### 2.01.01.04 Test Procedure:

1. Use “Generate archive” to create setting backup file
2. Connect Web UI and upgrade firmware
3. Reset to default
4. Restore settings

#### 2.01.01.05 Test Result:

Item	Criteria	Result	Remark
Button SW1/SW2/SW3	Press button several times during image reflash, will not cause high leak current	PASS	



### 3. Stability

#### 3.01 Stability stress Test

##### 3.01.01.01 Test Purpose :

To verify the button function is working correctly.

##### 3.01.01.02 Test Tool or Equipment:

1. ARK-1123H A2 as EPaper Manager server
2. WISE-3240 as EPD Router
3. EPD-023B/R as EPD device

##### 3.01.01.03 Testing Configuration:

1. Test environment: Room temperature

##### 3.01.01.04 Test Procedure:

1. Connect tags to ePaper Manager
2. Group schedule to transmit templates to tag. Repeat 24 times.

##### 3.01.01.05 Test Result:

Item	Criteria	Result	Remark
EPD-023	Connect to 400 tags, transmit template to all each hour. Run for 5 days. Fail rate < 0.1%	PASS	50 pcs 023R + 350 pcs 023B