

# **Product Specifications**

Customer	Standard
Description	2.6" TFT EPD Panel
Model Name	E2260CS021
Date	2017/12/20
Doc. No.	1P132-00
Revision	03

Customer Approval				
Date				
The above signature re	enresents that the product specifications testing regulation, and			

The above signature represents that the product specifications, testing regulation, and warranty in the specifications are accepted

Design Engineering			
Approval	Check	Design	
蘇 2017.12.20 倉民	蘇 2017.12.20 倉民	陳 2017.12.20 家 <b>荃</b>	

4F, No. 28, Chuangye Rd., Tainan Science Park, Tainan City 74144, Taiwan (R.O.C.)

Tel: +886-6-279-5399 Fax: +886-6-505-5300

Rev.: 03 Page: 1 of 30 Date: 2017/12/20



# Copyright

Pervasive Displays Incorporated All rights reserved.

This document is the exclusive property of Pervasive Displays Inc. (PDI) and shall not be reproduced or copied or transformed to any other format without prior permission of PDI. (PDI Confidential)

本資料為龍亭新技股份有限公司專有之財產,非經許可,不得複製、翻印或轉變成其他形式使用。

龍亭新技股份有限公司 Pervasive Displays Inc.

4F, No. 28, Chuangye Rd., Tainan Science Park, Tainan City 74144, Taiwan (R.O.C.)

Tel: +886-6-279-5399

http://www.pervasivedisplays.com

Rev.: 03 Page: 2 of 30 Date: 2017/12/20





## **Table of Contents**

Re	vision H	History	6
Glo	ossary (	of Acronyms	7
1	Gener	al Description	8
	1.1	Overview	8
	1.2	Features	8
	1.3	Applications	8
	1.4	General Specifications	9
	1.5	Mechanical Specifications1	0
2	Absolu	ute Maximum Ratings1	2
	2.1	Ratings of Environment1	2
	2.2	Reliability Test Item1	3
	2.3	Product Lifetime	3
	2.4	Product Warranty1	3
3	Electr	ical Characteristics1	4
	3.1	Absolute Maximum Ratings of Panel1	4
	3.2	Recommended Operation Conditions of Panel	4
4	Applic	ation Circuit Block Diagram1	6
5	Termi	nal Pin Assignment & Reference Circuit1	7
	5.1	Terminal Pin Assignment1	7
	5.2	Reference Circuit1	9
6	Optica	al Characteristics2	0
	6.1	Measurement Conditions	0
	6.2	Optical Specifications	0
	6.2.	1 Optical2	0
	6.2.2	2 Ghosting	3
7	Packir	ng2	4
8	Preca	utions2	6
Q	Defini	tion of Lahels	Q



## **List of Figures**

Figure 1-1	EPD Drawing	
Figure 3-1	Test Pattern of Panel	15
Figure 3-2	Image Update Current Profile	15
Figure 3-3	Current Measurement	15
Figure 4-1	Application Circuit Block Diagram	16
Figure 5-1	EPD Reference Circuit	19
Figure 6-1	Optical measurement	21
Figure 6-2	Definition of Viewing Angle to Measure Contrast Ratio	22
•	Packing Diagram	
Figure 9-1	Model Labels	28
Figure 9-2	Definition of Model Labels	28
Figure 9-3	Carton Label	29
Figure 9-4	Pallet Label	30



#### **List of Tables**

Table 1-1	General Specification	9
Table 1-2	Mechanical Specification	10
Table 1-3	FPC Specification	10
Table 2-1	Absolute Ratings of Environment	12
Table 2-2	Reliability Test Items	13
Table 3-1	Absolute Maximum Ratings of Panel	14
Table 3-2	Recommended Operation Conditions of Panel	14
Table 5-1	Terminal Pin Assignment	17
Table 6-1	Optical Measurement Conditions	20
Table 6-2	Optical Measurement with D65 light source	20
Table 6-3	Measurement of Ghosting	23



# **Revision History**

Version	Date	Page (New)	Section	Description
Ver.01	2016/08/19	All	All	Product specification first issued.
Ver.02	2017/1/19	11	1.5	Amend Figure 1-1 EPD Drawing
		28	9	Amend Figure 9-1
				Amend Figure 9-2 Definition of Model Labels to 23 digits
		28	9	Figure 9-1: label size change to 25*12mm
Ver.03	201712/20	29		Figure 9-2: linear code change to 2D code & 23 digits change to 28 digits
				Figure 9-3: carton label 6 digits change to 8 digits

Rev.: 03 Page: 6 of 30 Date: 2017/12/20



# **Glossary of Acronyms**

EPD Electrophoretic Display (e-Paper Display)

EPD Panel EPD

TCon Timing Controller

TFT Thin Film Transistor

MCU Microcontroller Unit

FPC Flexible Printed Circuit

FPL Front Plane Laminate

SPI Serial Peripheral Interface

COG Chip on Glass

IIS Incoming Inspection Standard

ISTA International Safe Transit Association

PDI Pervasive Displays Incorporated

Rev.: 03 Page: 7 of 30 Date: 2017/12/20



# 1 General Description

#### 1.1 Overview

This is a 2.6" a-Si, active matrix TFT, Electronic Paper Display (EPD) panel. The panel has such high resolution (101.6dpi) that it is able to easily display fine patterns. Due to its bi-stable nature, the EPD panel requires very little power to update and needs no power to maintain an image.

#### 1.2 Features

- a-Si TFT active matrix Electronic Paper Display(EPD)
- Resolution: 232 x 128
- Ultra low power consumption
- Super Wide Viewing Angle near 180°
- Extra thin & light
- SPI interface
- RoHS compliant

## 1.3 Applications

- Electronic shelf label (ESL)
- Reusable container
- Badge

Rev.: 03 Page: 8 of 30 Date: 2017/12/20



## 1.4 General Specifications

**Table 1-1 General Specification** 

Item	Specification	Unit	Note
Outline Dimension	64.0(H) x 42.9(V) x 1.1(T)	mm	(1)
Active Area	58.0(H) x 32.0(V)	mm	
Driver Element	a-Si TFT active matrix	-	
FPL	Aurora Mb	-	
Pixel Number	232 x 128	pixel	
Pixel Pitch	0.250 x 0.250 (101.6dpi)	mm	
Pixel Arrangement	Vertical stripe	-	
Display Colors	Black/White	-	
Surface Treatment	Anti-Glare	-	
Driver IC	G2	-	-

Note (1): Not including the FPC.

Rev.: 03 Page: 9 of 30 Date: 2017/12/20



# 1.5 Mechanical Specifications

**Table 1-2 Mechanical Specification** 

Item		Min.	Тур.	Max.	Unit	Note
	Horizontal(H)	63.7	64.0	64.3	mm	
Glass Size	Vertical(V)	42.6	42.9	43.2	mm	
	Thickness(T)	1.0	1.1	1.2	mm	(1)
Weight		-	5.2	6.3	g	

Note (1): Not including the Masking Film.

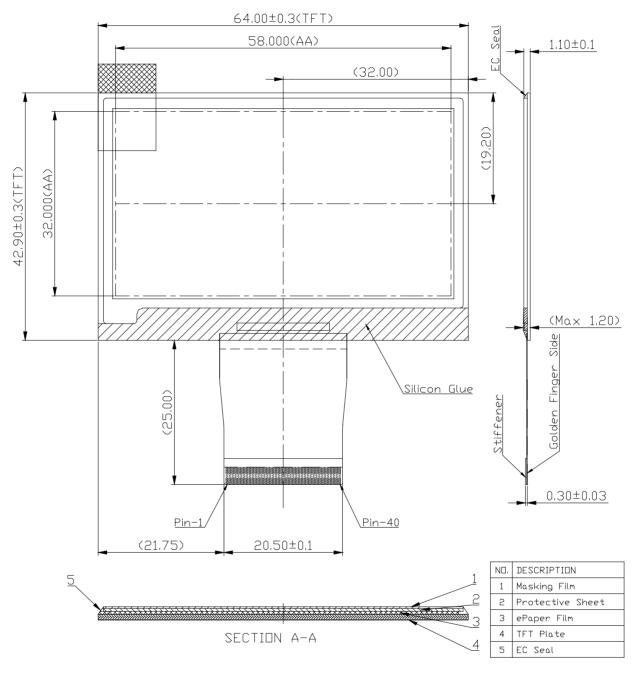
Table 1-3 FPC Specification

Item	Pin numbers	Pitch (mm)	Connector	Note
Golden Finger	40	0.5	STARCONN 089H40 or HRS TF31-40S or Compatible	

Rev.: 03 Page: 10 of 30 Date: 2017/12/20



Figure 1-1 EPD Drawing



General tolerance: ±0.3mm

Rev.: 03 Page: 11 of 30 Date: 2017/12/20



# 2 Absolute Maximum Ratings

## 2.1 Ratings of Environment

Table 2-1 Absolute Ratings of Environment

Itom	Cymphal	Value		l loit	Nata
Item	Symbol	Min.	Max.	Unit	Note
Storage Temperature	T <sub>ST</sub>	-20	+60	°C	(1),(3)
Absolute Storage Humidity	H <sub>ST</sub>	30	90	%RH	(1),(3)
Operating Ambient Temperature	T <sub>OP</sub>	0	+50	°C	(1),(2),(4)
Operating Ambient Humidity	H <sub>OP</sub>	30	90	%RH	(1),(2),(4)
Optimal Storage Temperature	T <sub>STo</sub>	-10	35	°C	(1),(3)
Optimal Storage Humidity	H <sub>STo</sub>	40	60	%RH	(1),(3)

Note (1):

- (a) 90 %RH Max. (Ta  $\leq$  40 °C), where Ta is ambient temperature.
- (b) Wet-bulb temperature should be 39 °C Max. (Ta > 40 °C).
- (c) No condensation and no frost in absolute ratings of Environment.
- Note (2): The temperature of panel display surface area should be 0 °C Min. and 50 °C Max. Refresh time depends on operation temperature.
- Note (3): E Ink Material is Moisture and UV sensitive. The absolute rating operating environments describes the boundary conditions for updating the display while the absolute rating storage environment describe the boundary conditions for a display not updating. While displays are rated to perform according to specification for the warranty period at the absolute specified operating environment, the better the storage condition, the better the E Ink displays will perform. Similar to other moisture and UV sensitive components, we recommend that our displays be stored in temperature and humidity control environments, and whenever possible, under above defined Optimal Storage Condition, away from sunlight, to optimize their performance.
- Note (4): The performance of EPD may be degraded under sunlight. Please customer consults PDI if customer wants to use EPD under sunlight.

Rev.: 03 Page: 12 of 30 Date: 2017/12/20



#### 2.2 Reliability Test Item

Table 2-2 Reliability Test Items

Item	Test Condition	Remark
High Temperature Operation	50 ℃/30%RH for 240h	(1) (2)
Low Temperature Operation	0 °C for 240h	(1) (2)
High Temperature/Humidity Operation	40 ℃ / 90 %RH for 240h	(1) (2)
High Temperature Storage	60 ℃ / 30%RH for 240h	(1) (2)(3)
Low Temperature Storage	-20 ℃ for 240h	(1) (2) (3)
High Temperature/Humidity Storage	60 ℃ / 80 %RH for 240h	(1) (2) (3)
Thermal Cycles ( Non-operation )	1 Cycle: -20°C/30min → 60°C/30min, for 100 Cycles	(1) (2) (3)
Package Drop Test	Drop from 97cm. (ISTA) 1 corner, 3 edges, 6 sides. One drop for each.	(1) (2) (3)
Package Random Vibration Test	1.15Grms, 1Hz ~ 200Hz. ( ISTA )	(1) (2) (3)

Note (1): No condensation and no frost during test. End of test, function, mechanical, and optical shall be satisfied with product specification and IIS.

Note (2): The test result and judgment are based on PDI's 1bit driving waveform, driving fixture and driving system.

Note (3): Stay white pattern for storage and non-operation test.

#### 2.3 Product Lifetime

The EPD Module is designed for a 5-year life-time with 25  $^{\circ}$ C/50%RH operation assumption. Reliability estimation testing with accelerated life-time theory would be demonstrated to provide confidence of EPD lifetime.

#### 2.4 Product Warranty

Warranty conditions have to be negotiated between PDI and individual customers. PDI provides 13months warranty for all products which are purchased from PDI.

Rev.: 03 Page: 13 of 30 Date: 2017/12/20



## 3 Electrical Characteristics

#### 3.1 Absolute Maximum Ratings of Panel

**Table 3-1 Absolute Maximum Ratings of Panel** 

Doromotor	Cymala al	Value		l leit	Nata	
Parameter	Symbol	Min	Max	Unit	Note	
Digital Power	$V_{DD}$	-0.3	6.0	V		
Analog Power	V <sub>CC</sub>	-0.3	6.0	V		
Ground	$V_{SS}$	-		-	Connect V <sub>SS</sub> to Ground	

 $T_a = 25 \pm 2$  °C

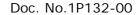
# 3.2 Recommended Operation Conditions of Panel

**Table 3-2 Recommended Operation Conditions of Panel** 

Parameter				Value		Unit	Note
		Symbol	Min	Тур	Max	Offic	Note
Digita	ıl Power	$V_{DD}$	2.3	3.0	3.6	V	
Analo	g Power	V <sub>CC</sub>	2.3	3.0	3.6	V	
Input	High	V <sub>IH</sub>	0.8V <sub>DD</sub>	-	$V_{DD}$	V	/CS, ID, SCLK,
Voltage	Low	V <sub>IL</sub>	$V_{SS}$	-	0.2V <sub>DD</sub>	V	SI, /RESET
Output	High	V <sub>OH</sub>	0.8V <sub>DD</sub>	-	$V_{DD}$	V	I <sub>OH</sub> =0.5mA, SO, BUSY
Voltage	Low	V <sub>OL</sub>	$V_{SS}$	1	0.2V <sub>DD</sub>	V	I <sub>OL</sub> =-0.5mA, SO, BUSY
Input	High	I <sub>IH</sub>	-	-	2.0	uA	
Leakage Current	Low	I <sub>IL</sub>	-	-	-2.0	uA	
Input Current		$I_{DD} + I_{CC}$	-	4	8	mA	(1),(2),(3)
DC/DC Inrush Current		I <sub>PEAK</sub>	-	30	90	mA	(1),(2),(3)

 $T_a = 25 \pm 2$  °C

Rev.: 03 Page: 14 of 30 Date: 2017/12/20





Note (1):

Figure 3-1 Test Pattern of Panel

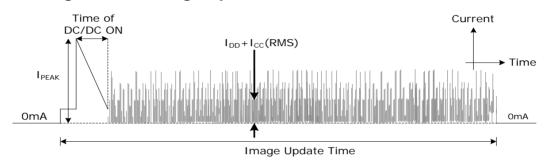


These currents are tested with PDI test jig.

Note (2):

 $V_{DD} = V_{CC} = 3.0V$ 

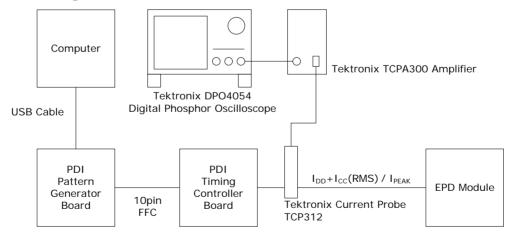
Figure 3-2 Image Update Current Profile



The "Time of DC/DC ON" which contains the some current peak of  $V_{\text{GH}}/V_{\text{DH}}/V_{\text{GL}}/V_{\text{COM}}$ .

Note (3):

Figure 3-3 Current Measurement



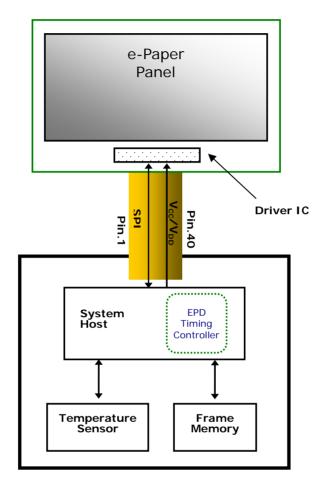
Rev.: 03 Page: 15 of 30 Date: 2017/12/20





# 4 Application Circuit Block Diagram

Figure 4-1 Application Circuit Block Diagram







# 5 Terminal Pin Assignment & Reference Circuit

## 5.1 Terminal Pin Assignment

**Table 5-1 Terminal Pin Assignment** 

No.	Signal	Туре	Connected to	Function		
1	/CS	I	Tcon	Chip Select. Low enable		
2	BUSY	0	Tcon	When BUSY = HIGH, EPD stays in busy state that EPD ignores any input data from SPI		
3	ID	I	Ground	Connect ID to ground		
4	SCLK	I	Tcon	Clock for SPI		
5	SI	I	Tcon	Serial input from Timing Controller to EPD		
6	SO	0	Tcon	Serial output from EPD to Timing Controller		
7	/RESET	I	Tcon	Reset signal. Low enable		
8	PWRON	-	NC	Keep open		
9	$V_{CL}$	С	Capacitor	-		
10	C42P	-	NC	Not Connected		
11	C42M	-	INC	Not Connected		
12	C41P	С	Charge-Pump	-		
13	C41M	С	Capacitor	-		
14	C31M	С	Charge-Pump	-		
15	C31P	С	Capacitor	-		
16	C21M	С	Charge-Pump	-		
17	C21P	С	Capacitor	-		
18	C16M	С	Charge-Pump	-		
19	C16P	С	Capacitor	-		
20	C15M	С	Charge-Pump	-		
21	C15P	С	Capacitor	-		

Rev.: 03 Page: 17 of 30 Date: 2017/12/20



22	C14M	С	Charge-Pump	-
23	C14P	С	Capacitor	-
24	C13M	С	Charge-Pump	-
25	C13P	С	Capacitor	-
26	C12M	С	Charge-Pump	-
27	C12P	С	Capacitor	-
28	C11M	С	Charge-Pump	-
29	C11P	С	Capacitor	-
30	V <sub>COM_DRIVER</sub>	RC	Resistor & Capacitor	The signal duty cycle can drive VCOM voltage from source driver IC
31	$V_{CC}$	Р	V <sub>cc</sub>	Power supply for analog part of source driver
32	$V_{DD}$	Р	$V_{DD}$	Power supply for digital part of source driver
33	$V_{SS}$	Р	Ground	
34	$V_{GH}$	С	Capacitor	
35	$V_{GL}$	С	Capacitor	
36	$V_{DH}$	С	Capacitor	
37	$V_{DL}$	С	Capacitor	
38	BORDER	I	-	Not connected
39	$V_{ST}$	Р	V <sub>COM_PANEL</sub>	
40	V <sub>COM_PANEL</sub>	С	Capacitor	V <sub>COM</sub> to panel

Note:

Type: I: Input

O: Output C: Capacitor

RC: Resistor and Capacitor

P: Power

Rev.: 03 Page: 18 of 30 Date: 2017/12/20

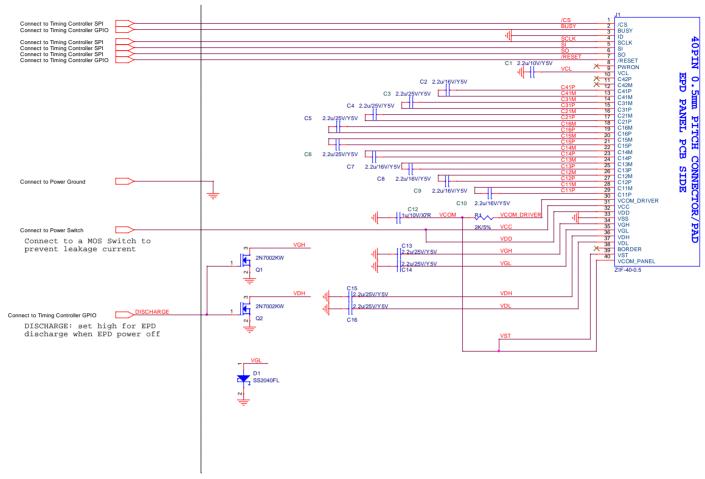




#### 5.2 Reference Circuit

#### Figure 5-1 EPD Reference Circuit

#### INPUT



Note: (1)  $V_{DD}$  and  $V_{CC}$  must be discharged promptly after power off.

Rev.: 03 Page: 19 of 30 Date: 2017/12/20



# **6 Optical Characteristics**

#### 6.1 Measurement Conditions

**Table 6-1 Optical Measurement Conditions** 

Item	Symbol	Value	Unit
Ambient Temperature	Та	25±2	°C
Ambient Humidity	На	50±10	%RH
Supply Voltage	V <sub>CC</sub> & V <sub>DD</sub>	3.0	V

Note: Image is updated with above condition.

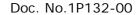
### 6.2 Optical Specifications

## 6.2.1 Optical

Table 6-2 Optical Measurement with D65 light source

Item	Symbol	Rating			11	Niete
		Min.	Тур.	Max.	Unit	Note
Contrast ratio	CR	1	13:1	-	-	$\theta x = \theta y = 0$ (1),(2),(4),(5)
Refresh time	Tr	1	3	-	sec	(1),(3),(5)
	L*	-	70	-		
White state	a*		-2.8		-	$\theta x = \theta y = 0$ (1),(2),(5)
	b*	-	-0.5	-		
Reflectance	R%	-	42	-	%	(1),(2),(5)

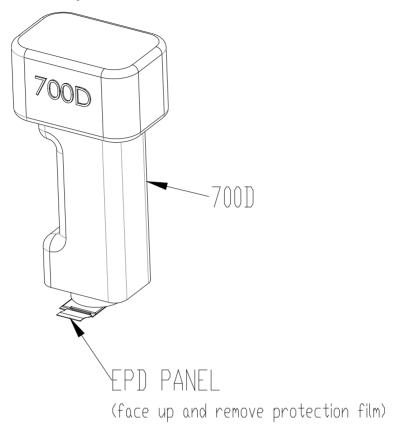
Rev.: 03 Page: 20 of 30 Date: 2017/12/20



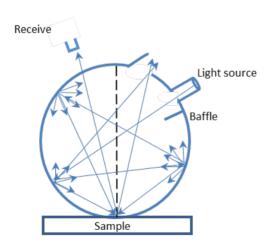


Note (1): Panel is driven by PDI waveform without masking film and optical measurement by CM-700D with D65 light source and SCE mode.

Figure 6-1 Optical measurement



#### SCE mode

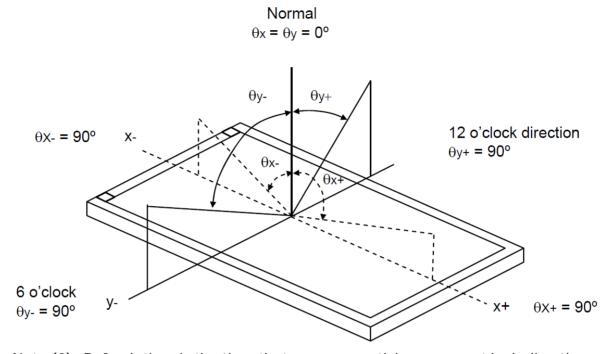


Rev.: 03 Page: 21 of 30 Date: 2017/12/20



Note (2): Definition of Viewing Angle ( $\theta x$ ,  $\theta y$ ):

Figure 6-2 Definition of Viewing Angle to Measure Contrast Ratio



- Note (3): Refresh time is the time that e-paper particles move not including the power on and off time. The refresh time is measured at 25°C. The refresh time and contrast ratio varies due to different films, display performance requirements, and ambient temperatures.
- Note (4): Contrast ratio (C.R.): The Contrast ratio is calculated by the following expression. C.R. = (R% White) / (R% Black).
- Note (5): Optical data is measured at 60 seconds after refresh with PDI's global update procedure.

Rev.: 03 Page: 22 of 30 Date: 2017/12/20

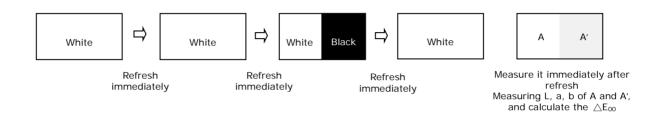


#### 6.2.2 Ghosting

Below are two test methods to verify if ghosting is within an acceptable range. Test 1 and Test 2 use measured data to calculate color different,  $\Delta E_{00}$  (CIEDE 2000).

The condition of measurement is to follow "Table 6-1 Optical Measurement Conditions".

· Test 1: White to Black Ghosting



Test 2: Black to White Ghosting

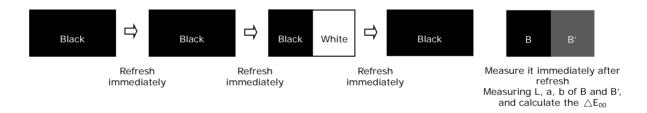


Table 6-3 Measurement of Ghosting

Itomo	Rating				
Item	Min.	Тур.	Max.		
Test 1 △E*ab	-	-	2		
Test 2 △E*ab	-	-	2		

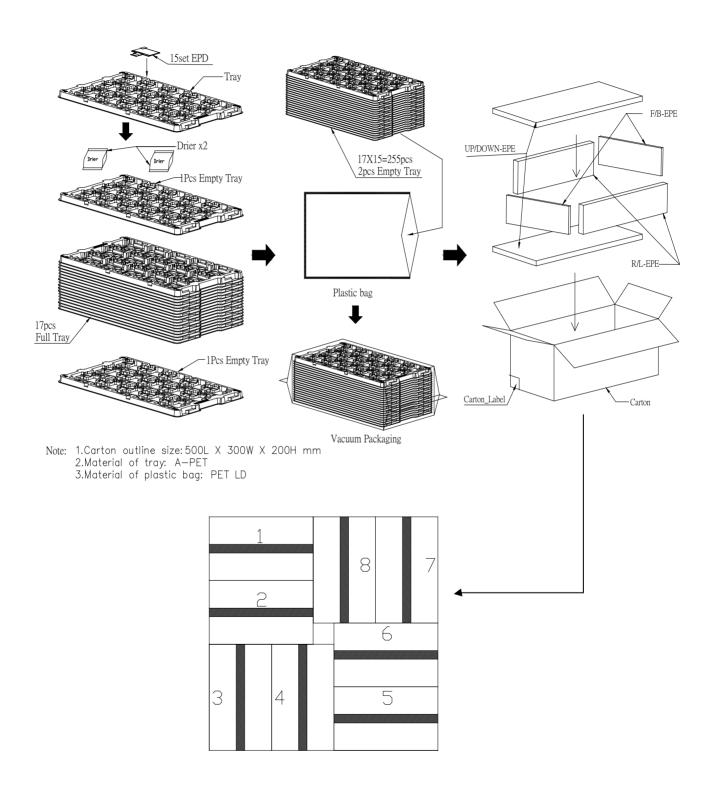
Note: Panel is driven by PDI waveform without masking film and optical measurement by CM-700D with D65 light source and SCE mode.

Rev.: 03 Page: 23 of 30 Date: 2017/12/20



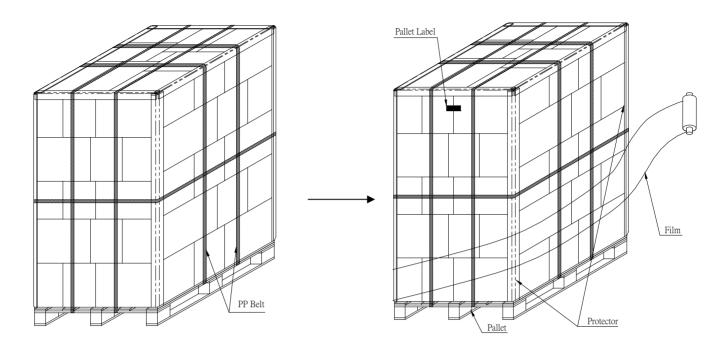
# 7 Packing

Figure 7-1 Packing Diagram



Rev.: 03 Page: 24 of 30 Date: 2017/12/20

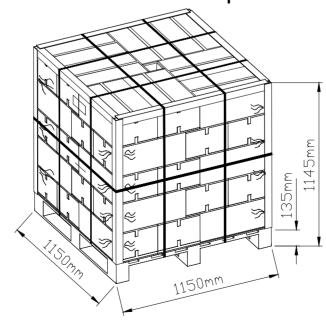




255(pcs)x40(BOX)=10,200pcs

	2.6" EPD BOX
N.W. :	1.32 Kg
G.W. :	4.69 Kg

# Sea / Land / Air Transportation



Rev.: 03 Page: 25 of 30 Date: 2017/12/20



#### 8 Precautions

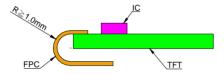
- (1) The EPD Panel / Module is manufactured from fragile materials such as glass and plastic, and may be broken or cracked if dropped. Please handle with care. Do not apply force such as bending or twisting to the EPD panel during assembly. Please put on gloves to handle EPD to avoid slash.
- (2) It is recommended to assemble or install EPD panels in a clean working area. Dust and oil may cause electrical shorts or degrade / scratch / dent the protection sheet film.
- (3) Do not apply pressure to the EPD panel in order to prevent damaging it.
- (4) Do not connect or disconnect the interface connector while the EPD panel is in operation.
- (5) Please support the bezel with your finger while connecting the interface cable such as the FPC.
- (6) Do not stack the EPD panels / Modules.
- (7) Do not press the FPC on the glass edge or Pull FPC up / down to 90°.
- (8) Do not touch the FPC lead connector.
- (9) Do not touch IC bonding area. It may scratch TFT lead or damage IC function.
- (10) Wear a Wrist Strap (Grounding connect) when handling and during assembly. Semiconductor devices are included in the EPD Panel / Module and they should be handled with care to prevent any electrostatic discharge (ESD). (An Ion Fan may be needed in assembly operation to reduce ESD risk.)
- (11) Keep the EPD Panel / Module in the specified environment and original packing boxes when storage in order to avoid scratching and keep original performance.
- (12) Do not disassemble or reassemble the EPD Panel / Module.
- (13) Use a soft dry cloth without chemicals for cleaning. Please don't press hard for cleaning because the surface of the protection sheet film is very soft and without hard coating. This behavior would make dent or scratch on protection sheet.
- (14) Please be mindful of moisture to avoid its penetration into the EPD panel, which may cause damage during operation.
- (15) It's low temperature operation product. Please be mindful the temperature different to make frost or dew on the surface of EPD panel. Moisture may penetrate into the EPD panel because of frost or dew on surface of EPD panel, and makes EPD panel damage.
- (16) If the EPD Panel / Module is not refreshed every 24 hours, a phenomena known as "Ghosting" or "Image Sticking" may occur. It is recommended that customer refreshed the ESL / EPD Tag every 24 hours in use case. It is recommended that customer ships or stores the ESL / EPD Tag with a completely white image to avoid this issue.
- (17) High temperature, high humidity, sunlight or fluorescent light may degrade the EPD panel's performance. Please do not expose the unprotected EPD panel to high temperature, high humidity, sunlight, or fluorescent for long periods of time.
- (18) The label ink used for marking the Panel ID number is erased easily by solvent. Please avoid using solvent to clean the EPD panel. It would be concerned for RMA.
- (19) The EPD Panel / Module is vacuum packed with white image for shipment and storage.

prior permission of PDI. (PDI Confidential) 本資料為龍亭新技專有之財產,非經許可,不得複製、翻印或轉變成其他形式使用。

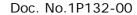


(20) Before approved by PDI and customer, products and product specifications may be subject to change without notice. Confirm that you have received the latest product standards or specifications before final design, purchase or use.

- (21) PDI makes every attempt to ensure that its products are of high quality and reliability. However, contact PDI sales office before using the product in an application that demands especially high quality and reliability or where its failure or malfunction may directly threaten human life or cause risk of bodily injury, such as aerospace, aeronautics, nuclear power, combustion control, transportation, traffic, safety equipment or medical equipment for life support.
- (22) Design your application so that the product is used within the ranges guaranteed by PDI particularly for maximum rating, operating supply voltage range, heat radiation characteristics, installation conditions and other characteristics. PDI bears no responsibility for failure or damage when used beyond the guaranteed ranges. Even within the guaranteed ranges, consider normally foreseeable failure rates or failure modes in semiconductor devices and employ systemic measures such as fail safes, so that the equipment incorporating PDI product does not cause bodily injury, fire or other consequential damage due to operation of the PDI product.
- (23) This product is not designed to be radiation resistant.
- (24) Please keep  $R \ge 1.0$ mm when bend for assembly.



Rev.: 03 Page: 27 of 30 Date: 2017/12/20





#### 9 Definition of Labels

Figure 9-1 Model Labels

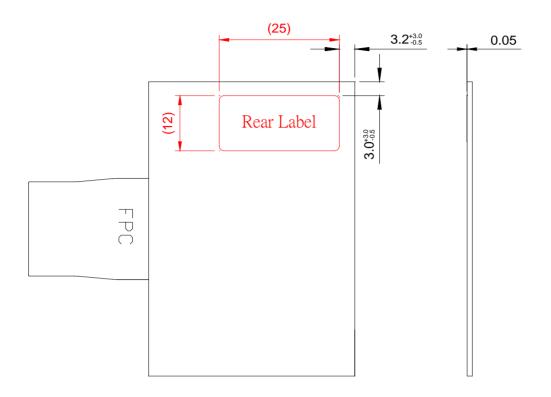
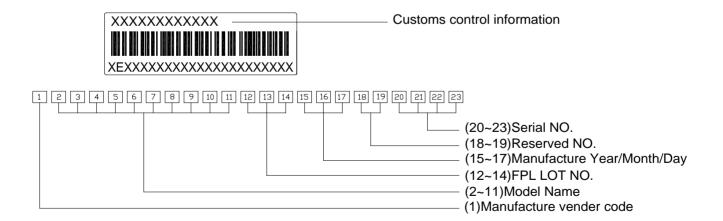


Figure 9-2 Definition of Model Labels

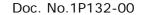


Note(1): Linear barcode will be used till Y2018/3 and phase in 2D barcode (QR code)

Note(2): Linear barcode use 30\*10mm label; 2D barcode will use 25\*12mm label

Note(3): 2D barcode digits will become 28 digits, the definition is showed at below drawing.

Rev.: 03 Page: 28 of 30 Date: 2017/12/20





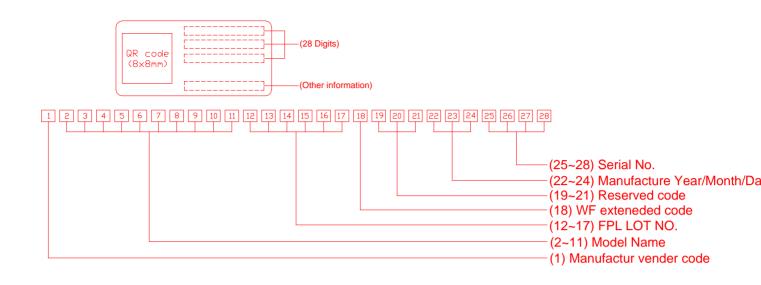


Figure 9-3 Carton Label

Bar Code=Model Name.+Carton Serial No.+Q'TY.(Code 128)



Carton Label

Note(1): The digit of No.8 is WF extended code

Rev.: 03 Page: 29 of 30 Date: 2017/12/20

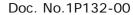




Figure 9-4 Pallet Label



Bar Code=Model Name.+Pallet Serial No.+Q'TY.(22 Digits)

# **Pallet Label**

Rev.: 03 Page: 30 of 30 Date: 2017/12/20