

Product Specifications

Customer	Standard
Description	1.9" TFT EPD Panel
Model Name	E2190CS021
Date	2022/02/21
Doc. No.	1P133-00
Revision	04

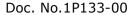
	Customer Approval
Date	
	ture represents that the product specifications, testing regulation, are specifications are accepted

Design Engineering				
Approval	Check	Design		
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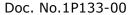
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Table of Contents

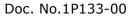
Re	vision I	History	6
Glo	ssary (of Acronyms	7
1	Gener	ral Description	8
	1.1	Overview	8
	1.2	Features	8
	1.3	Applications	
	1.4	General Specifications	9
	1.5	Mechanical Specifications	10
2	Absol	ute Maximum Ratings	
	2.1	Absolute Ratings of Environment	
	2.2	Reliability Test Item	12
	2.3	Product Lifetime	12
	2.4	Product Warranty	12
3	Electr	ical Characteristics	13
	3.1	Absolute Maximum Ratings of Panel	13
	3.2	Recommended Operation Conditions of Panel	13
4	Applic	cation Circuit Block Diagram	15
5	Termi	nal Pin Assignment & Reference Circuit	16
	5.1	Terminal Pin Assignment	16
	5.2	Reference Circuit	18
6	Optica	al Characteristics	19
	6.1	Test Conditions	19
	6.2	ptical Specifications	19
	6.2.	1 Optical	19
	6.2.2	2 Ghosting	22
7	Packir	ng	23
8	Preca	utions	25
9	Defini	ition of Labels	27





List of Figures

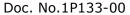
Figure 1-1	EPD Drawing	10
Figure 3-1	Test Pattern of Panel	14
Figure 3-2	Image Update Current Profile	14
Figure 3-3	Current Measurement	14
Figure 4-1	Application Circuit Block Diagram	15
Figure 5-1	EPD Reference Circuit	18
Figure 6-1	Optical measurement	20
Figure 6-2	Definition of Viewing Angle to Measure Contrast Ratio	21
Figure 7-1	Packing Diagram	23
Figure 9-1	Definition of Model Labels	27
Figure 9-2	Carton Label	27
Figure 9-3	Pallet Label	28





List of Tables

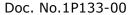
Table 1-1	General Specification	9
Table 2-1	Absolute Ratings of Environment	11
Table 2-2	Reliability Test Items	12
Table 3-1	Absolute Maximum Ratings of Panel	13
Table 3-2	Recommended Operation Conditions of Panel	13
Table 5-1	FPC Specification	16
Table 5-2	Terminal Pin Assignment	16
Table 6-1	Optical Measurement Conditions	19
Table 6-2	Optical Measurement with D65 light source	19
Table 6-3	Measurement of Ghosting	22





Revision History

Version	Date	Page (New)	Section	Description			
Ver.01	2016/12/16	All	All	Product specification first issued.			
				Figure 9-1: label size change to 25*12mm			
Ver.02	2017/12/14	28	9	Figure 9-2: linear code change to 2D code & 23 digits change			
VC1.02	2017/12/11	29		to 28 digits			
				Figure 9-3: carton label 6 digits change to 8 digits			
				1. Table 1-1 add "weight"			
		9	1.4	2. delete Table 1-2, please refer to Mechanical drawing			
		10-11	1.5	Move Table 1-3 to Table 5-1			
Ver.03	2020/12/28	17	5.1	3. update Figure 1-5 Mechanical drawing			
		24	7	4. update Figure 7-1 packing Diagram			
		28	9	5. delete Figure 9-1, please refer to Mechanical drawing			
				6. delete Figure 9-2, 1D code definition			
		9	1.4	Table 1-1: Outline Dimension, thickness change to 0.9mm			
Ver.04	2022/02/21	10	1.5	Figure 1-1: EPD Drawing (Thickness change)			





Glossary of Acronyms

EPD Electrophoretic Display (e-Paper Display)

EPD Panel EPD

EPD Module EPD with TCon board
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

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1 General Description

1.1 Overview

This is a 1.9" 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.

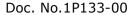
1.2 Features

- a-Si TFT active matrix Electronic Paper Display(EPD)
- Resolution: 144 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.: 04 Page: 8 of 28 Date: 2022/02/21 This document is the extremely in the extremely in





1.4 General Specifications

Table 1-1 General Specification

Item	Specification	Unit	Note
Outline Dimension	42.0(H) x 42.9(V) x 0.9(T)	mm	(1)
Active Area	36.0(H) x 32.0(V)	mm	
Driver Element	a-Si TFT active matrix	1	
FPL	Aurora Mb	-	
Pixel Number	144 x 128	pixel	
Pixel Pitch	0.250 x 0.250 (101.6dpi)	mm	
Pixel Arrangement	Vertical stripe	ı	
Display Colors	Black/White	-	
Surface Treatment	Anti-Glare	-	
Driver IC	G2	-	-
Weight	3.5±1	G	-

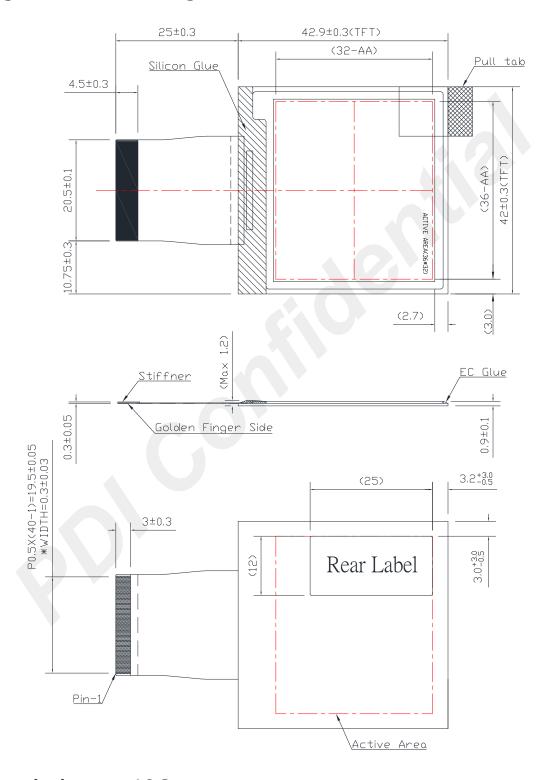
Note (1): Not including the FPC.

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1.5 Mechanical Specifications

Figure 1-1 EPD Drawing



General tolerance: ±0.3mm



2 Absolute Maximum Ratings

2.1 Absolute Ratings of Environment

Table 2-1 Absolute Ratings of Environment

Itom	Cymbol	Va	lue	Unit	Note	
Item	Symbol	Min.	Max.	Ullic		
Storage Temperature	T _{ST}	-20	+60	°C	(1),(3)	
Storage Humidity	H_{ST}	30	90	%RH	(1),(3)	
Operating Ambient Temperature	T _{OP}	0	+50	٥C	(1),(2),(4)	
Operating Ambient Humidity	H _{OP}	30	90	%RH	(1),(2),(4)	
Optimal Storage Temperature	T _{STo}	-10	35	°C	(1),(3)	
Optimal Storage Humidity	H _{STo}	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.

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2.2 Reliability Test Item

Table 2-2 Reliability Test Items

Item	Test Condition	Remark
High Temperature Operation	50 $^{\circ}\mathrm{C}$ / 30 %RH for 240h	(1) (2)
Low Temperature Operation	0 ℃ 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 $^{\circ}$ C/30min → 60 $^{\circ}$ 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.

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3 Electrical Characteristics

3.1 Absolute Maximum Ratings of Panel

Table 3-1 Absolute Maximum Ratings of Panel

Parameter	Cymhol	\	/alue	Linit	Note	
	Symbol	Min	Max	Unit	Note	
Digital Power	V_{DD}	-0.3	6.0	V		
Analog Power	V _{CC}	-0.3	6.0	V		
Ground	V _{SS}	-		-	Connect V _{SS} to Ground	

 $T_a = 25 \pm 2 \, {}^{\circ}C$

3.2 Recommended Operation Conditions of Panel

Table 3-2 Recommended Operation Conditions of Panel

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

 $T_a = 25 \pm 2 \, {}^{\circ}\text{C}$

Rev.: 04 Page: 13 of 28 Date: 2022/02/21
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Note (1):

Figure 3-1 Test Pattern of Panel

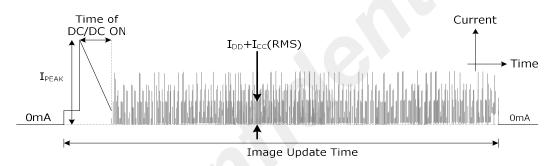


These currents are tested with PDI test jig.

Note (2):

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

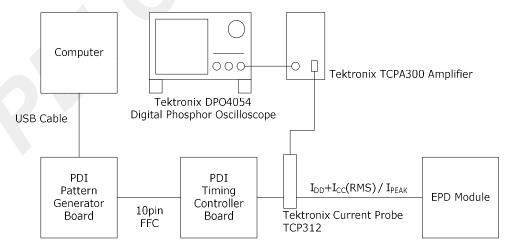
Figure 3-2 Image Update Current Profile



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

Note (3):

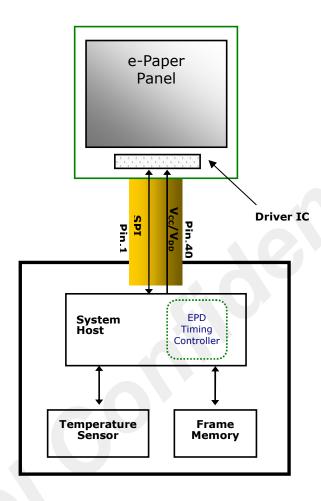
Figure 3-3 Current Measurement





4 Application Circuit Block Diagram

Figure 4-1 Application Circuit Block Diagram





5 Terminal Pin Assignment & Reference Circuit

5.1 Terminal Pin Assignment

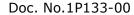
Table 5-1 FPC Specification

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

Table 5-2 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	VCL	С	Capacitor	
10	C42P	-	NC	Not Connected
11	C42M	-	NC	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	

Rev.: 04 Page: 16 of 28 Date: 2022/02/21 This document is the exchange the spoke and the exchange of the spoke of the spok





17	C21P	С	Capacitor	
18	C16M	С	Charge-Pump	
19	C16P	С	Capacitor	
20	C15M	С	Charge-Pump	
21	C15P	С	Capacitor	
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 _{COM_DRIVER}	RC	Resistor & Capacitor	The signal duty cycle can drive VCOM voltage from source driver IC
31	Vcc	Р	Vcc	Power supply for analog part of source driver
32	V _{DD}	Р	V _{DD}	Power supply for digital part of source driver
33	Vss	Р	Ground	
34	V _{GH}	С	Capacitor	
35	V _{GL}	С	Capacitor	
36	V _{DH}	С	Capacitor	
37	V _{DL}	С	Capacitor	
38	BORDER	-	-	Not connected
39	V _{ST}	Р	V _{COM_PANEL}	
40	V _{COM_} PANEL	С	Capacitor	V _{COM} to panel

Note:

Type: I: Input O: Output

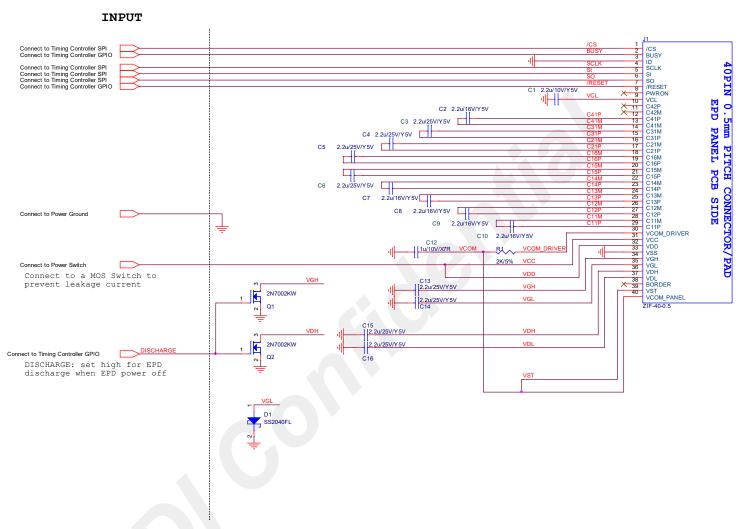
C: Capacitor RC: Resistor and Capacitor

P: Power



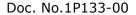
5.2 Reference Circuit

Figure 5-1 EPD Reference Circuit



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

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6 Optical Characteristics

6.1 Test 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 _{CC} & V _{DD}	3.0	V

Note: Measure optical at RT (Room Temperature) after pattern update at 25 °C.

6.2 Optical Specifications

6.2.1 Optical

Table 6-2 Optical Measurement with D65 light source

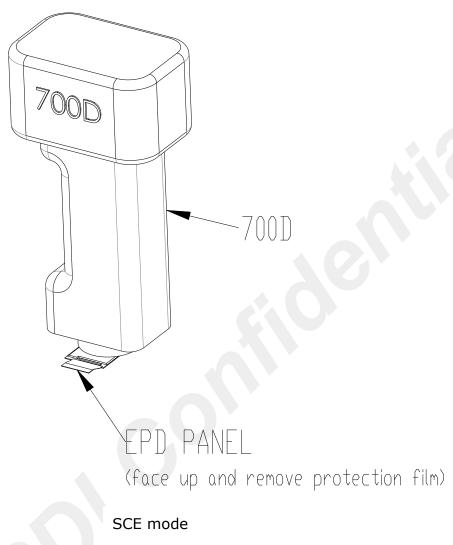
Thomas	Cala al	Rating			l lait	Nicko
Item	Symbol	Min.	Тур.	Max.	Unit	Note
Contrast ratio	CR	-	12:1	-	1	$\theta x = \theta y = 0$ (1),(2),(4),(5)
Refresh time	Tr	-	2	-	sec	(1),(3),(5)
White state	L*	-	70	-		
	a*		-2.6		-	$\theta x = \theta y = 0$ (1),(2),(5)
	b*	-	-0.7	-		
Reflectance	R%	-	41	-	%	(1),(2),(5)

Rev.: 04 Page: 19 of 28 Date: 2022/02/21 This document is the extremely specific appropriated without the extremely specific appropriate and the specific appropr



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

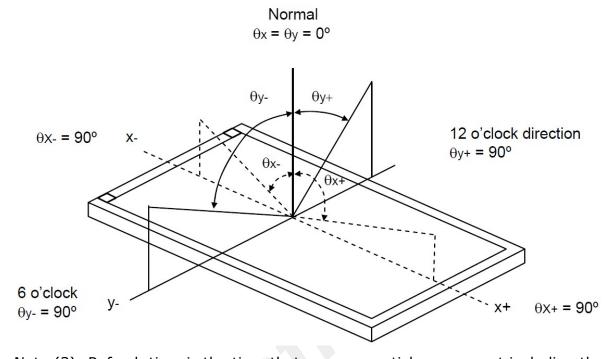


Receive Light source Baffle Sample



Note (2): Definition of Viewing Angle (θx , θy):

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.: 04 Page: 21 of 28 Date: 2022/02/21
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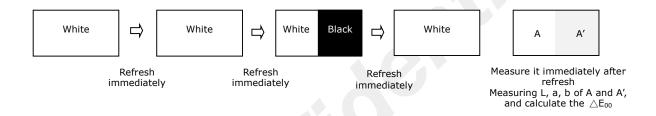


6.2.2 Ghosting

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, $\triangle E_{00}$ (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

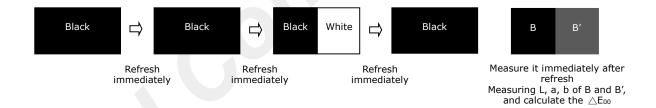


Table 6-3 Measurement of Ghosting

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

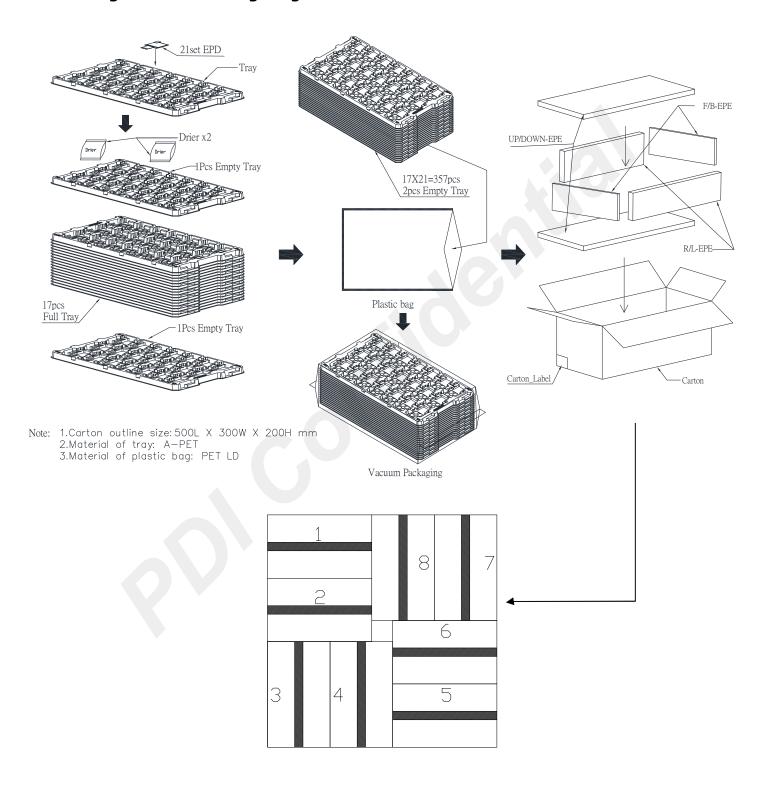
Note: Panel is driven by PDI waveform without masking film and optical measurement by CM-700D with D65 light source and SCE mode.

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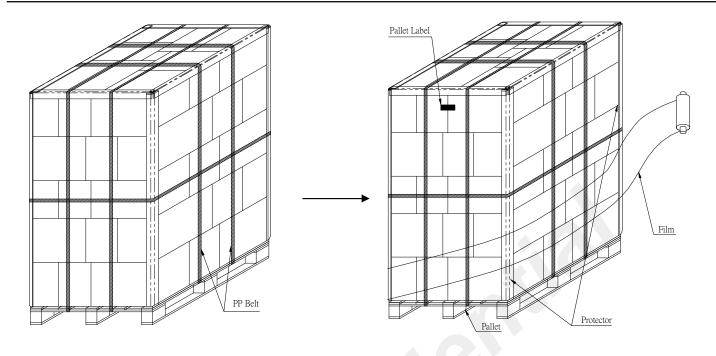


7 Packing

Figure 7-1 Packing Diagram



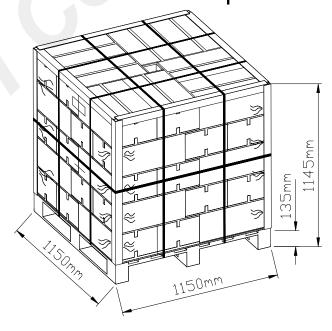




 $357(pcs) \times 40(BOX)=14,280pcs$

	1.9" EPD BOX		
N.W. :	1.25 Kg		
G.W. :	4.62 Kg		

Sea / Land / Air Transportation



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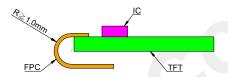


8 Precautions

- (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.
- (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.



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9 Definition of Labels

Figure 9-1 Definition of Model Labels

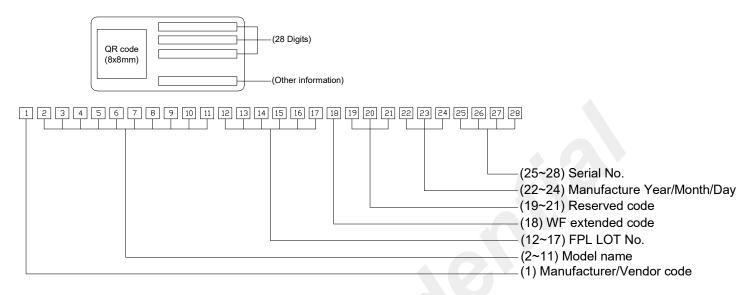
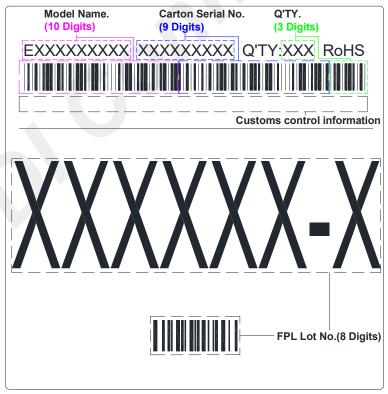


Figure 9-2 Carton Label

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



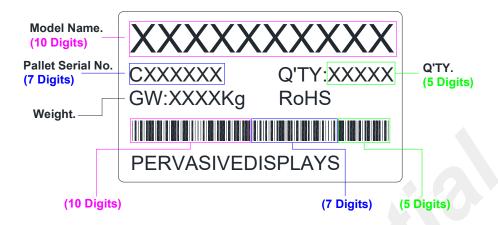
Carton Label

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

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Figure 9-3 Pallet Label



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

Pallet Label