

KETAI SYSTEM ELECTRONICS CO., LTD

SPECIFICATIONS FOR LCD MODULE

Customer: _____
Model name: 43BOE8257-40A
Description: LIQUID CRYSTAL DISPLAY MODULE
Date: 2010-11-16

CUSTOMER APPROVAL

Customer Approval	<input type="checkbox"/> Accept <input type="checkbox"/> Reject comment: <div style="text-align: right;">Approved by: _____</div>
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SUPPLIER APPROVAL

APPROVED	CHECKED	ORGANIZED

1、 OTHERS:

APPROVAL FOR SPECIFICATIONS ONLY
APPROVAL FOR SPECIFICATIONS AND SAMPLE
NOTE: VERSION OF SPECIFICATIONS: 00

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1. Introduction And General Specifications

Liquid crystal Displays (LCDS) have widely used in many applications such as industrial measurements, office mechanisms, and household electronic–equipment etc. LCM (LCD Module) integrates with LCD and driving circuit that is easily to be interfaced by user. This LCM contains a standard built-in dot –matrix font set.

1.1 Applications of LCM

- Telephone
- Facsimile mechanism
- Electronic Typewriter
- Word processor
- Electronic memo pads
- Remote controller

1.2 Features of LCM

- Compact, thin and light
- Wide view angle
- Low power consumption
- High contrast image
- Wide operating temperature
- High reliability

1.2 General specification

Parameter	Value	Unit
Display Mode	Normal white TN	-
Display Resolution	480*RGB*272	pixels
Pixel Arrangement	RGB-stripe	-
Viewing Direction	6 o' clock	
Display Mode	Normally white	
IC Package Type	COG	-
MPU Interface	24-bit parallel RGB interface	-
Power Supply Voltage	2.8~3.3	V
Back-light	White LED*7	pcs

2. LCD&LCM Outline Drawing

REV	REVISION RECORD	DATE	APPROVED NAME
A			

PIN	SIGNAL	PIN	SIGNAL
1	VLED-	21	B0
2	VLED+	22	B1
3	GND	23	B2
4	VDD	24	B3
5	R0	25	B4
6	R1	26	B5
7	R2	27	B6
8	R3	28	B7
9	R4	29	GND
10	R5	30	DCLK
11	R6	31	DISP
12	R7	32	HSYNC
13	G0	33	VSYNC
14	G1	34	DE
15	G2	35	NC
16	G3	36	GND
17	G4	37	XR
18	G5	38	YD
19	G6	39	XL
20	G7	40	YU

NOTES:

- 1. DISPLAY TYPE : TFT 262K
- 2. POLARIZER MODE : TRANSMISSIVE/NEGATIVE
- 3. DRIVE METHOD : 1/272DUTY
- 4. VIEWING DIRECTION: : 6 O'CLOCK
- 5. MAIN LCD BACKLIGHT : 7-CHIP WHITE LED
- 6. OPERATING TEMP : -20°C~60°C
- 7. STORAGE TEMP : -30°C~80°C
- 8. OPERATING VOLTAGE : 14.0V
- 9. DRIVER IC : HX8257
- 10. LED OPERATING VOLTAGE : 22.4 V

LED- ○ LED+

TOLERANCE	MATERIAL	FINISH	MODEL NAME
±0.2			HW480272F-0L-0A
VERSION	SCALE	NDL	UNIT
A	1:1	1/1	mm
DATE	APPROVED	CHECKED	DRAWN
2010.08.13			
			FILE NAME
			LCM
E://480272			

3. 24-bit Interface pin Connections Circuit Block Diagram

PIN NO.	SYMBOL	DESCRIPTION
1	VLED-	Backlight LED power supply (cathode)
2	VLED+	Backlight LED power supply (Anode)
3	GND	Ground
4	VDD	Power Supply
5-12	R0-R7	Red data bit line , (对于16bpp显示模式, RGB=5:6:5时, R0-R2: NC, R7为高位).
13-20	G0-G7	Green data bit line , (对于 16bpp 显示模式, RGB=5:6:5 时, G0-G1: NC, G7 为高位).
21-28	B0-B7	Blue data bit line , (对于16bpp显示模式, RGB=5:6:5时, B0-B2: NC, B7为高位).
29	GND	Ground
30	DCLK	Clock signal, The input data is latched on the rising edge of CLK.
31	DISP	NC
32	HSYNC	In esternal interface mode, served as a horizontal synchronizing signal input;
33	VSYNC	In external interface mode , served as a vertical synchronizing signal input;
34	DE	Data Enable
35	NC	Not Connected
36	GND	Ground
37	XR	Touch panel XR
38	YD	Touch panelYD
39	XL	Touch panel XL
40	YU	Touch panel YU

4. 24-bit parallel RGB interface

Parallel RGB input Timing Table

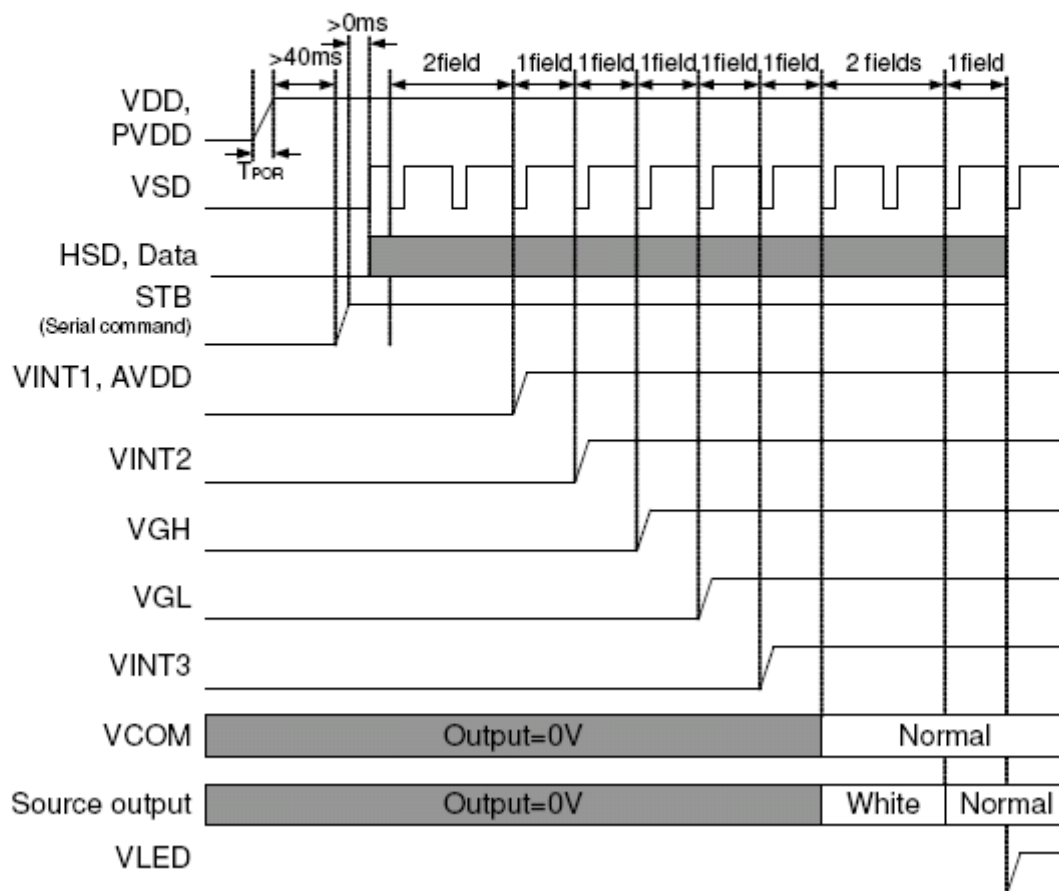
Item	Symbol	Min.	Typ.	Max.	Unit		
DCLK Frequency	Fclk	5	9	12	MHz		
DCLK Period	Tclk	83	110	200	ns		
Hsync	Period Time	Th	490	531	605	DCLK	
	Display Period	Thdisp		480		DCLK	
	Back Porch	Thbp	8	43		DCLK	By H_BLANKING setting
	Front Porch	Thfp	2	8		DCLK	
	Pulse Width	Thw	1			DCLK	
Vsync	Period Time	Tv	275	288	335	H	
	Display Period	Tvdisp		272		H	
	Back Porch	Tvbp	2	12		H	By V_BLANKING setting
	Front Porch	Tvfp	1	4		H	
	Pulse Width	Tvw	1	10		H	

5. Power sequence

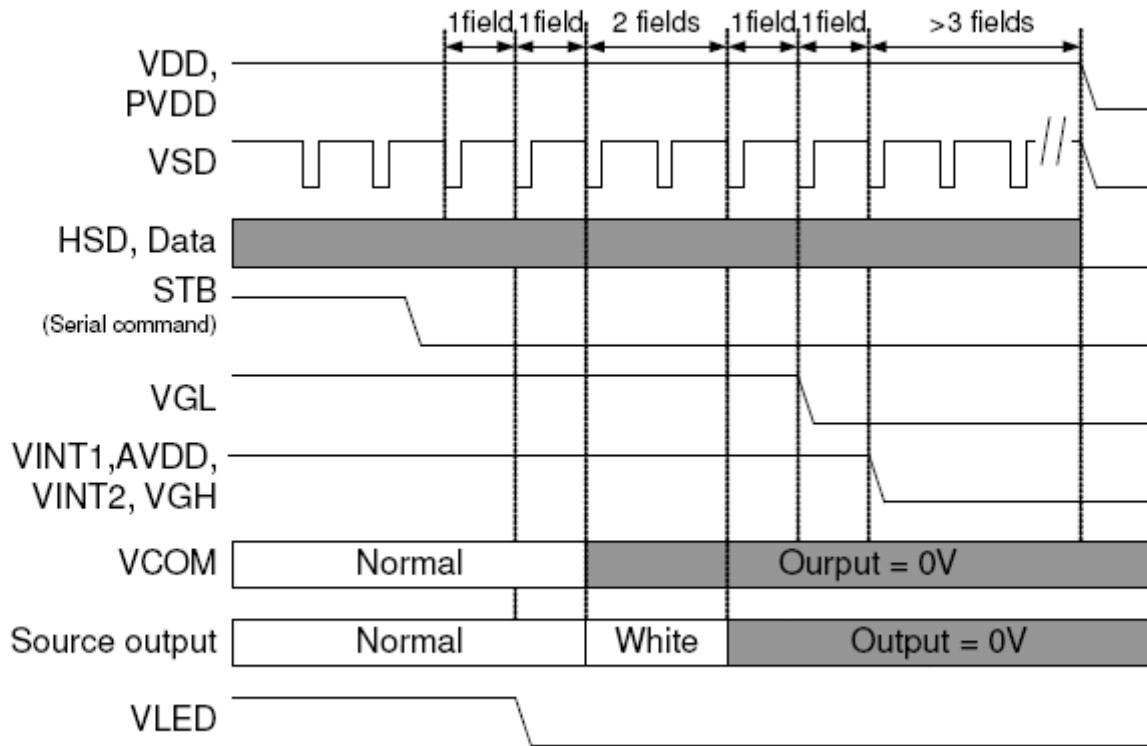
Power on/off sequence:

This IC is a high-voltage LCD driver, so it may be damaged by a large current flow if an incorrect power sequence is used. Connecting the drive powers, VEE & VGG, after the logical power, VCC, is the recommended sequence. When shutting off the power, first shut off the drive power and then the logic system or turn off all power simultaneously.

■ Power on sequence



■ Power off sequence



6. Notice packing method

Pack the products so that they may not touch each other.

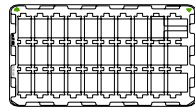
Put the inner cartons containing module into outer carton.

Attach the display label on the visible location on the outer carton.

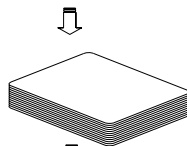
REV	REVISION RECORD	ATE	
△			

一. 内箱包装：

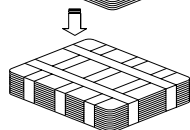
1. 将完成终检的产品放入吸塑盘内



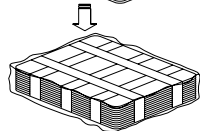
2. 将装满产品的吸塑盘交叉叠放后，加一个空盘为盖



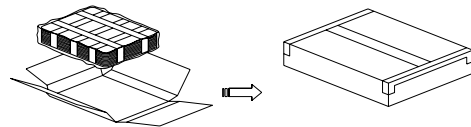
3. 用胶纸捆绑叠放好的吸塑盘



4. 将捆好的吸塑盘放入胶袋并封口

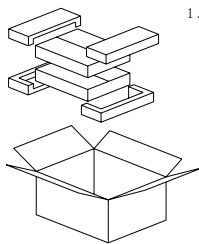


5. 装入内箱，并用胶纸以“工”字型封内箱



二. 外箱包装：

1. 将两个内箱装入外箱



2. 封好外箱，贴上标签

