



# **SPECIFICATIONS FOR** LCD MODULE

	Customer:						
	Model name:		800480F-0B-0A				
	Description:	LIQ	UID CRYSTAL DISPLAY	/ MODULE			
	Date:		2010-06-08				
	CUSTOMER APPROVAL						
	Customer Approval	□ Ac	ject nent:	ved by:			
SUF	SUPPLIER APPROVAL						
	APPROVED		CHECKED	ORGANIZED			
1、0	THERS:						

### 1、

APPROVAL FOR SPECIFICATIONS ONLY APPROVAL FOR SPECIFICATIONS AND SAMPLE

NOTE: VERSION OF SPECIFICATIONS: 00

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### 2、OTHERS:

# History of revision

Revision	Contents	Date	Note
01	New Revision	2010-06-08	1.0

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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.

### 1.1Applications 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

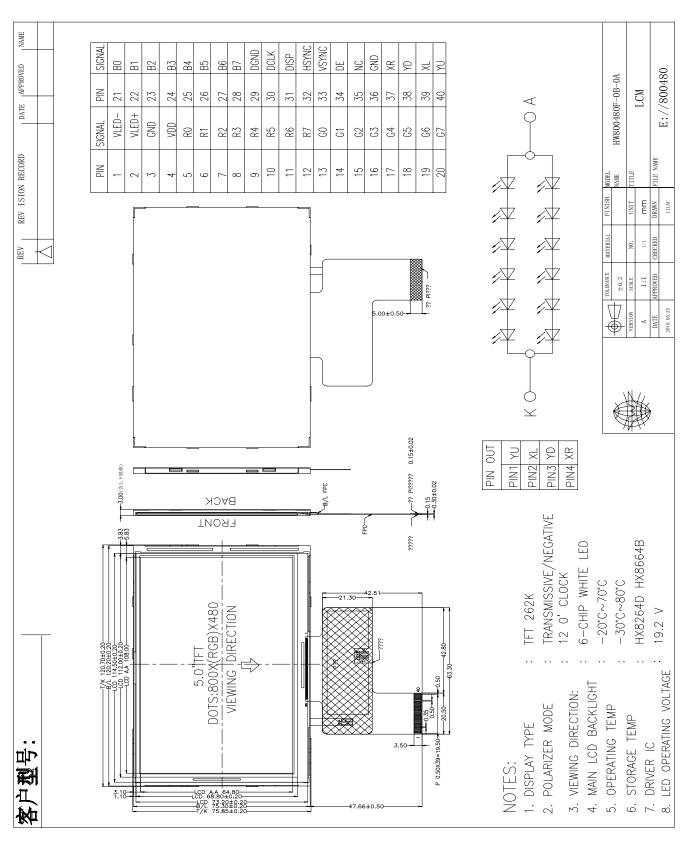
Wide operating temperature

High reliability

### 1.2 General specification

Parameter	Value	Unit
Display Mode	Normal white TN	-
Display Resolution	800*RGB*480	pixels
Pixel Arrangement	RGB-stripe	-
Viewing Direction	12 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*12	pcs

# 2. LCD&LCM Outline Drawing

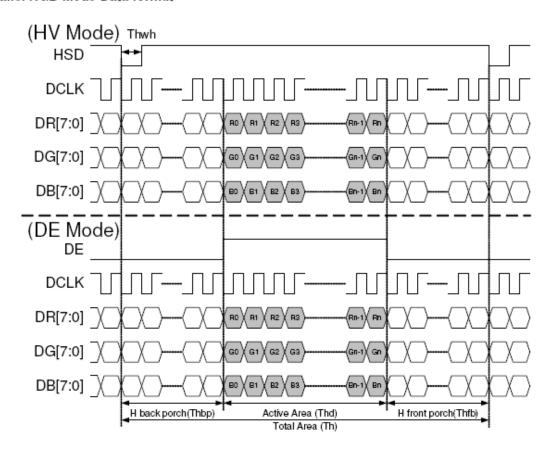


# 3. 24-bit Interface pin Connections Circuit Block Diagram

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	Display on/off
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 Mode Data format



Resolution: 800x480

### Horizontal timing

Parameter	Symbol	Spec.			Unit
Farameter	Symbol	Min. Typ	Typ.	Max.	Onit
Horizontal Display Area	thd	29	800	-	DCLK
DCLK frequency	fclk	-	33.3	50	MHz
One Horizontal Line	th	-	928	-	DCLK
HS pulse width (Min.)	thpw	-	1	0.4°	DCLK
HS pulse width (Typical.)	thpw	-	48	0.40	DCLK
HS pulse width (Max.)	thpw		-	873	DCLK
HS Back Porch (Blanking)	thb	-	88	-	DCLK
HS Front Porch	thfp	-	40	3-4	DCLK
DE mode Blanking	th-thd	85	128	19 <b>2</b> 0	DCLK

### Vertical timing

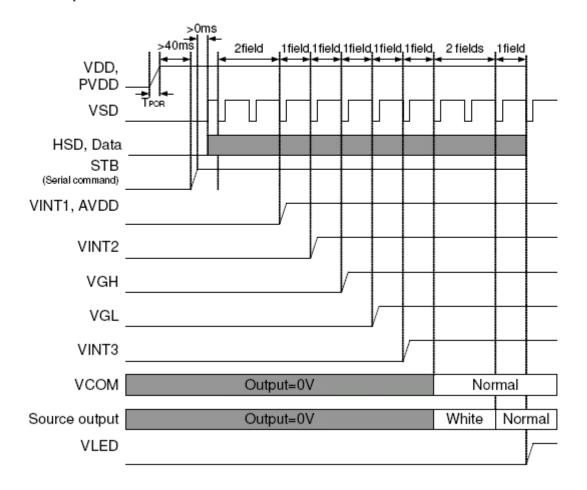
Param eter	Symbol	Spec.			Unit
rarameter	Symbol	Min.	Typ. Max.	Onit	
Vertical Display Area	tv d	-	480		T <sub>H</sub>
VS period time	tv	-	525	-	T <sub>H</sub>
VS pulse width	tvpw		3	-	T <sub>H</sub>
VS Back Porch (Blanking)	tv b	-	32	123	T <sub>H</sub>
VS Front Porch	tvfp	-	13	-	T <sub>H</sub>

### 5. Power sequence

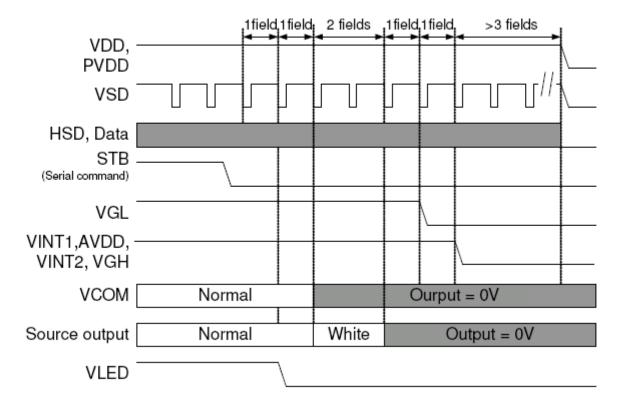
#### Power on/off sequence:

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

