



LCD MODULE SPECIFICATION

Customer: _____
Model Name: FT3001JPY -40P
Date: 2015-04-28
Version: 1.0

Approved by	Reviewed by	Prepared by

For Customer's Acceptance

Approved by	Comment



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1. General Specifications

No.	Item	Specification	Unit	Remark
1	LCD Size	3.0"	inch	-
2	Panel Type	a-si TFT	-	-
3	Resolution	240x(RGB)x400	pixel	-
4	Display Mode	Normally white, Transmissive	-	-
5	Display Number of Colors	262K	-	-
6	Viewing Direction	12 o'clock	-	Note 1
7	Contrast Ratio	300	-	-
8	Luminance	180	cd/m ²	
9	Module Size	45.04(W)x77(L)x2.7(T)	mm	Note 1
12	Weight	TBD	g	-
13	Driver IC	OTM4001A	-	-
14	Driver IC RAM Size	240x18x400	bit	-
15	Light Source	4 White LEDs in Parallel	-	-
16	Interface	80-system 16bits Parallel Bus	-	-
17	Operating Temperature	-20~70	°C	-
18	Storage Temperature	-30~80	°C	-

Note 1: Please refer to the mechanical drawing.

2. Pin Assignments

Pin No.	Symbol	I/O	Function	Remark
1	GND	P	Power Ground	-
2	GND	P		-
3	GND	P		-
4	GND	P		-
5	GND	P		-
6	GND	P		-
7	VCC	P	Power Supply(2.8V)	-
8	VCC	P	Power Supply(2.8V)	-
9	NC	-		-
10	CS	I/O	Chip Select Signal	-
11	RS	I/O	DATA/COMMAND Select	-
12	WR	I/O	Write Signal	-
13	RD	I/O	Read Signal	-
14	DB0	I/O	Data Bus	-
15	DB1	I/O		-
16	DB2	I/O		-
17	DB3	I/O		-
18	DB4	I/O		-
19	DB5	I/O		-
20	DB6	I/O		-
21	DB7	I/O		-
22	DB8	I/O		-
23	DB9	I/O		-
24	DB10	I/O		-
25	DB11	I/O		-
26	DB12	I/O		-
27	DB13	I/O		-
28	DB14	I/O		-
29	DB15	I/O	-	
30	RESET	I/O	RESET Signal	-
31	GND	P	Power Ground	-
32	LEDA	P	Back Light Positive	-

33	LEDK1	P	Back Light Cathode	
34	LEDK2	P	Back Light Cathode	
35	LEDK3	P	Back Light Cathode	
36	LEDK4	P	Back Light Cathode	
37	GND	P	Power Ground	
38	GND	P		
39	GND	P		
40	GND	P		

3. Electrical Specifications

Absolute Maximum Rating

($T_a=+25^{\circ}\text{C}$)

Item		Symbol	Values		Unit	Remark
			Min.	Max.		
TFT Module	I/O Circuit Supply Voltage	VDD	-0.3	4.6	V	Note 1
	Analog/Logic Supply Voltage	VCI	-0.3	4.6	V	Note 1
Backlight Unit	Current	I_B	-	80	mA	Note 2
	Power Consumption	P_{BL}	-	240	mW	Note 2

Note1: Permanent damage to the device may occur if maximum values are exceeded or reverse voltage is applied.

Note2: Without LED driver IC, please refer to 3.0.

Typical Operation Conditions

DC Characteristics

($T_a=+25^{\circ}\text{C}$, $V_{CI}=+2.8\text{V}$)

Item	Symbol	Values			Unit	Remark
		Min.	Typ.	Max.		
Logic Supply Voltage	VDD	1.65	2.8	3.3	V	$T_a=25^{\circ}\text{C}$
Analog Supply Voltage	VCI	2.6	2.8	3.3	V	
Input High Voltage	V_{IH}	0.7VDD	-	VDD	V	

Input Low Voltage	V_{IL}	0		0.3VDD	V	
Output High Voltage	V_{OH}	0.8VDD	-	VDD	V	
Output Low Voltage	V_{OL}	0	-	0.2VDD	V	
Frame Frequency	f_{FRAME}	-	65	-	Hz	

Note: To prevent IC latch up or DC operation in LCD panel, the power on/off sequence should follow the driver IC specification.

Current Consumption

4. Mechanical Drawing

