

VS DISPLAY TECHNOLOGY (HK) LTD

SPECIFICATION FOR LCD MODULE

Model No.: TCON: HCR-TCON V3.0

ORGANIZED BY	CHECKED BY	APPROVED BY
RAJU PAU	JOHNSON	CRISTAL RAMY

COMPANY CONTACT:

TEL: 86-755-82508603

FAX: 86-755-27839264

URL: WWW.VSLCD.COM

CONTENT

1. Modify Version	3
2. Description	3
3. Application	3
4. Features	3
5. Outline Dimension	4
6. Product Picuture	6
7. Electric Loop.....	6
8. Interface Definition	7
9. Function Test	10

VS DISPLAY TECHNOLOGY (HK) LTD

1. MODIFY VERSION

VERSION	DATE	CONTENT	NEW VERSION
HCR-TCON			

2. DESCRIPTION

HCR-TCON Board is design for digital TFT-LCD. It can support TFT LCD with AT070TN83, AT080TN42, AT102TN03 etc lcd panel
It can support resolution with 640*480, 800*480, 800*600 etc.

3. APPLICATION

It is widely use for Industrial Control, Video intercom, Instruments and meters, Medical Equipment, Security and protection Control, On-vehicle Display, Bank System, POS Machine etc.

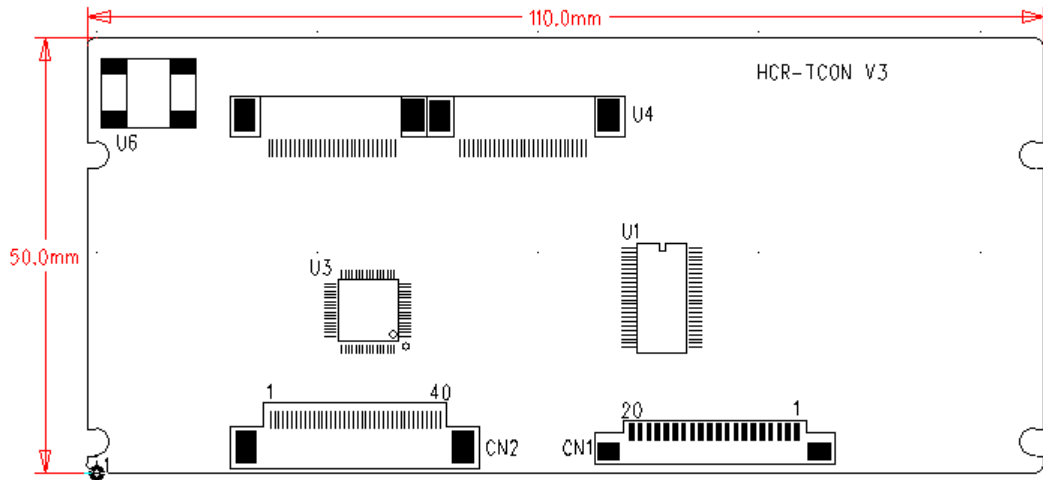
4. FEATURES

- 4.1 It can support LVDS, TTL Input signal
- 4.2 Input Voltage: DC +3.3V
- 4.3 Backlight can be adjustment

5. Outline Dimension

- 5. 1 TCON Board
-

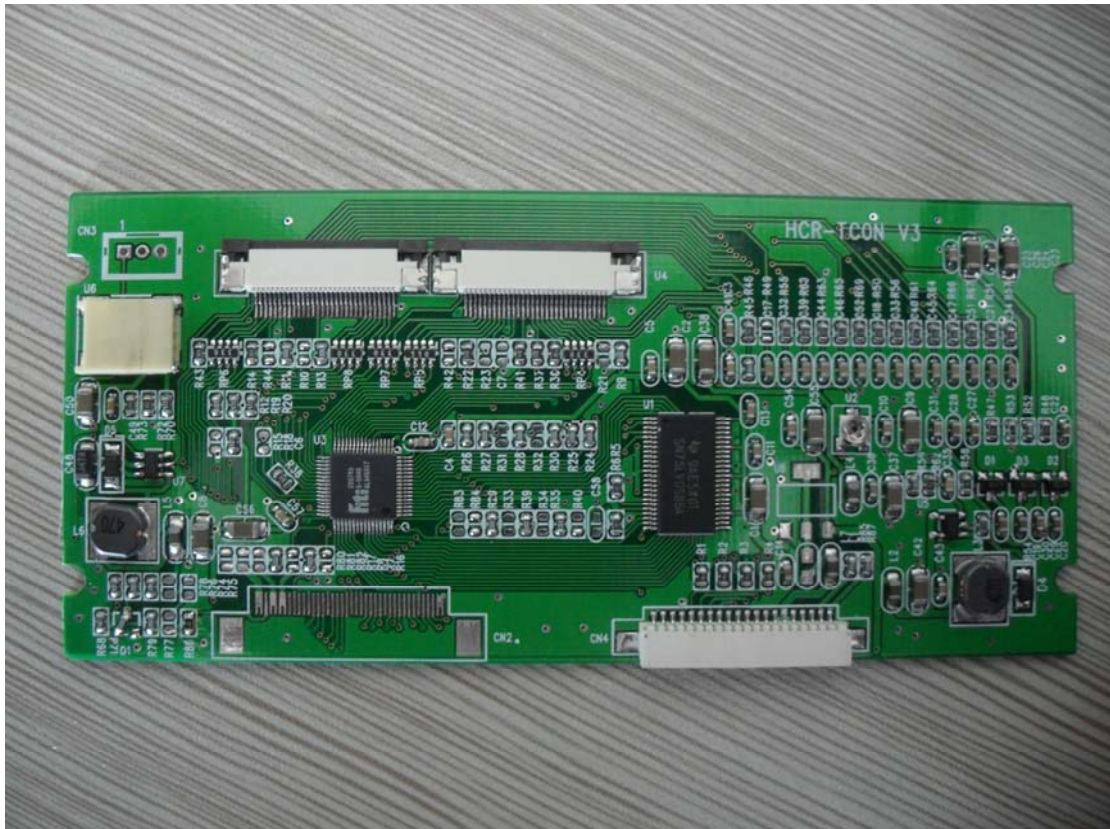
VS DISPLAY TECHNOLOGY (HK) LTD



LENGTH: 110mm WIDTH: 50mm

HEIGHT: 4mm (Include Component height+PCB thickness)

6. Product Picture



VS DISPLAY TECHNOLOGY (HK) LTD

8. Interface Definition

CN1 LVDS Input Interface

Pin No	DEFINE	DESCRIPTION
1	+5V	Power
2	+5V	Power
3	NC	
4	NC	
5	VCC	Power 3.3V
6	VCC	Power 3.3V
7	VCC	Power 3.3V
8	GND	Power ground
9	CKIN+	o'clock output signal +
10	CKIN-	o'clock output signal -
11	RxIN2+	Channel 2 output signal +
12	RxIN2-	Channel 2 output signal -
13	RxIN1+	Channel 1 output signal +
14	RxIN1-	Channel 1 output signal -
15	RxIN0+	Channel 0 output signal +
16	RxIN0-	Channel 0 input signal -
17	On/Off	Backlight power On/Off
18	NC	
19	GND	Power ground
20	GND	Power ground

CN2 TTL INPUT INTERFACE

Pin No	DEFINE	DESCRIPTION
1	VLED	Backlight Power
2	VLED	Backlight Power
3	ADJ	Backlight Switch
4	GLED	Backlight Battery
5	GLED	Backlight GND
6	VCC	LCD POWER
7	VCC	LCD POWER
8	MODE	
9	DE	
10	VS	Vsync Signal Input
11	HS	Hsync Signal Input

VS DISPLAY TECHNOLOGY (HK) LTD

12	GND	GROUND
13	R5	Red Data
14	R4	Red Data
15	R3	Red Data
16	GND	GROUND
17	R2	Red Data
18	R1	Red Data
19	R0	Red Data
20	GND	GROUND
21	G5	Green Data
22	G4	Green Data
23	G3	Green Data
24	GND	GROUND
25	G2	Green Data
26	G1	Green Data
27	G0	Green Data
28	GND	GROUND
29	B5	Blue Data
30	B4	Blue Data
31	B3	Blue Data
32	GND	GROUND
33	B2	Blue Data
34	B1	Blue Data
35	B0	Blue Data
36	GND	GROUND
37	DCLK	O'CLOCK
38	GND	GROUND
39	L/R	L/R TRUN OVER
40	U/D	U/D TURN OVER

VS DISPLAY TECHNOLOGY (HK) LTD

9. Testing

TYPE	PROJECT	TEST CONDITIONS	TEST NO	STANDARD
Storage	High Temp Test	+70°C 96Hr	2	Regular after normal Temp Test
Temp Test	Low Temp Test	-20°C 96Hr	2	
Operate	High Temp Test	+60°C 96Hr	2	Normal operation during the test
Temp Test	Low Temp Test	-20°C 96Hr	2	
Cold Starting Test	Cold Starting Test	-20°C $\xrightarrow{40\text{min}}$ ON $\xrightarrow{2\text{hours}}$ ON 4times $\xrightarrow{4\text{hours}}$ ON 4times $\xrightarrow{8\text{hours}}$ ON 1times	2	
Heat Cycle Test	Heat Cycle Test	-20°C $\xrightarrow{30\text{min}}$ 25°C $\xrightarrow{30\text{min}}$ 60°C Continue working 30 cycles	2	
Constant temperature and humidity test		+60°C 90%RH Continue working 96hours	2	
