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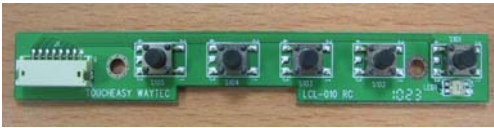
SK273A

LCD Monitor

1. GENERAL SPECIFICATION-

- Dual video inputs: VGA and DVI
- RGB analog input supports up to 205 MHz (1920x1200, 2048x1152)
- Full SOG supports up to 1080P
- Composite Sync supports copy protected signals
- Single link DVI 1.0 compliant input supports up to 165MHz
- HDCP 1.0 compliant
- Max refresh rate: 75Hz (subject to the limitation in LCD panel)
- Optional overdrive function for LCD response time enhancement
- DC 12V power supply (with DC jack and header)
- Audio Input: PC audio line in
- Audio output: 3W(3 Ω) x2 to speaker
- Panel supported: 6 or 8 bits, 16.7Million colors up to 1920x1200 resolution
- Panel interface: single and dual channel LVDS
- Output voltage for LCD: 3.3V/5V/12V selectable
- Independent DC5V 3A output for external device.
- DC 12V power for CCFL backlight
- LED backlight power supply: 5V/12V
- DDC2B/2Bi/2B+/CI support
- OSD keypad: Power, Menu/Exit, Brightness/Left/Up, Auto/Right/Down, Select/Enter (can be customized based on customer's requirement)
- Support Eight languages OSD

2. Keypad Usage-



2.1 OSD Board Description

Buttons	Description
Power	➤ Turn the monitor power ON or OFF.
Menu / Exit	➤ Activate the OSD menu. ➤ Exit menu.
Brightness / Left / Up	➤ Activate the volume control. ➤ Move the selector to the next option. ➤ Increase the gauge value of the selected option.
Auto / Right / Down	➤ Automatically adjust the clock, phase, H-position and V-position. ➤ Active volume control. ➤ Move the selector to the previous option. ➤ Decrease the gauge value of the selected option.
Select / Next	➤ Enter/confirm the selected option.

2.2 LED Function

DPMS ON	Green
DPMS STANDBY	Red
DPMS SUSPEND	The green light is flashing
DPMS OFF	Off

3. CONNECTORS, PINOUTS & JUMPERS-

CN3	OSD Control for 5key (ADC) Connector Used : PH2.0 1*8 Side Entry Type Wafer Related Female Housing :			
Pin No.	Symbols	Description		
1	DOWN	DOWN		
2	UP	UP		
3	GND	GND		
4	MENU	Menu		
5	AUTO	AUTO		
6	GREEN	Output terminal for green color LED indicator		
7	ORANGE	Output terminal for orange color LED indicator		
8	POWER ON	Power ON / OFF Switch		

J2	LVDS Signal Output Connector Used : PH2.0 2*15 Side Entry Type B-Header Relate Female Housing :	
Pin No.	Symbols	Description
1	GND	Ground
2	GND	Ground
3	GND	Ground
4	GND	Ground
5	LVDS_E9 RXE3+	Positive LVDS differential data output (Channel 3/Even data)
6	LVDS_E8 RXE3-	Negative LVDS differential data output (Channel 3/Even data)
7	LVDS_E7 RXEC+	Positive LVDS differential clock output (Even clock)
8	LVDS_E6 RXEC-	Negative LVDS differential clock output (Even clock)
9	LVDS_E5 RXE2+	Positive LVDS differential data output (Channel 2/Even data)
10	LVDS_E4 RXE2-	Negative LVDS differential data output (Channel 2/Even data)
11	LVDS_E3 RXE1+	Positive LVDS differential data output (Channel 1/Even data)
12	LVDS_E2 RXE1-	Negative LVDS differential data output (Channel 1/Even data)
13	LVDS_E1 RXE0+	Positive LVDS differential data output (Channel 0/Even data)
14	LVDS_E0 RXE0-	Negative LVDS differential data output (Channel 0/Even data)
15	LVDS_O9 RXO3+	Positive LVDS differential data output (Channel 3/Odd data)
16	LVDS_O8 RXO3-	Negative LVDS differential data output (Channel 3/Odd data)
17	LVDS_O7 RXOC+	Positive LVDS differential clock output (Odd clock)
18	LVDS_O6 RXOC-	Negative LVDS differential clock output (Odd clock)
19	LVDS_O5 RXO2+	Positive LVDS differential data output (Channel 2/Odd data)
20	LVDS_O4 RXO2-	Negative LVDS differential data output (Channel 2/Odd data)
21	LVDS_O3 RXO1+	Positive LVDS differential data output (Channel 1/Odd data)
22	LVDS_O2 RXO1-	Negative LVDS differential data output (Channel 1/Odd data)
23	LVDS_O1 RXO0+	Positive LVDS differential data output (Channel 0/Odd data)
24	LVDS_O0 RXO0-	Negative LVDS differential data output (Channel 0/Odd data)
25	GND	Ground
26	GND	Ground
27	PANEL_VCC	+3.3V / +5V power output
28	PANEL_VCC	+3.3V / +5V power output
29	PANEL_VCC	+3.3V / +5V power output
30	PANEL_VCC	+3.3V / +5V power output

JP3	Connector for 3.3V / 5V / 12V Output Connector Used : PH2.54 2*3 Top HEADER Relative Female Housing :	
Pin No.	Symbols	Description
1	+3.3V	Support panel +3.3V select
2	Com.	Support voltage common
3	+5V	Support panel +5V select
4	Com.	Support voltage common
5	+12V	Support panel +12V select
6	Com.	Support voltage common

- ※ Jumper select pin1 and pin2 support panel +3.3V DC
- ※ Jumper select pin3 and pin4 support panel +5V DC
- ※ Jumper select pin1 and pin2 support panel +12V DC

J6	Panel LED Driver Connector Used : PH2.0 1*6 Top Entry Type Wafer Relate Female Housing :	
Pin No.	Symbols	Description

1	GND	Ground
2	VLED_AN	VLED_AN
3	VLED_AN	VLED_AN
4	VLED_CA	VLED_CA
5	VLED_CA	VLED_CA
6	GND	Ground

J8	Panel LED Driver				
	Connector Used : PH2.0 2*4 Side Entry Type Wafer				
Relate Female Housing :					
Pin No.	Symbols	Description			
1	VLED_CA	VLED_CA			
2	VLED_CA	VLED_CA			
3	VLED_CA	VLED_CA			
4	VLED_CA	VLED_CA			
5	VLED_AN	VLED_AN			
6	VLED_AN	VLED_AN			
7	VLED_AN	VLED_AN			
8	VLED_AN	VLED_AN			

J7	Panel LED Driver Controller				
	Connector Used : PH2.0 1*6 Top Entry Type Wafer				
	Relate Female Housing :				
Pin No.	Symbols	Description			
1	BL_ADJ	BL_ADJ			
2	BL_ON	BL_ON			
3	GND	Ground			
4	GND	Ground			
5	+12V	+12V DC voltage input			
6	+12V	+12V DC voltage input			

	Connector for BL DC or PWM Connector Used : PH2.5 1*2 Top Entry Type Header Relate Female Housing :				
Pin No.	Symbols	Description			
1	BL_ADJ	BL_ADJ			
2	GND	Ground			

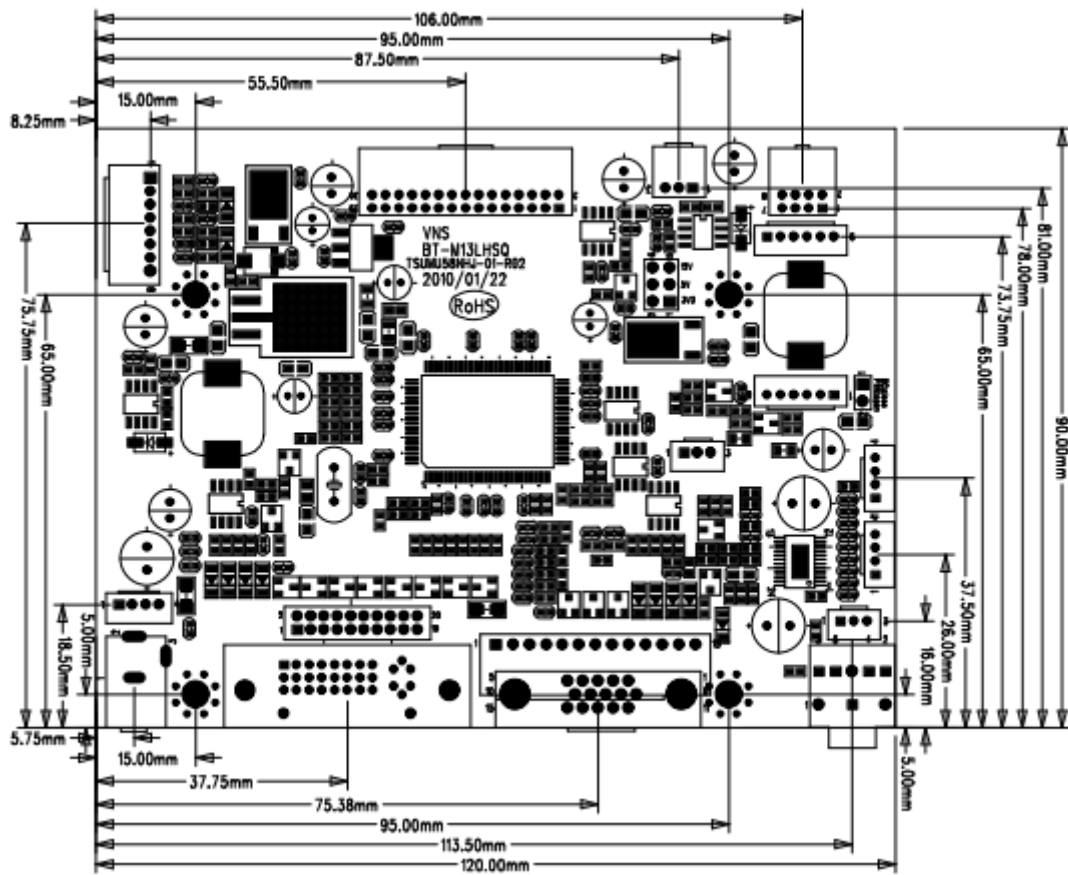
※When BL is DC please short-circuit JP2
 ※When BL is PWM please lead the way JP2

J10	DC Jack for Power Supply Connector Used : Relate Female Housing : DC JACK 2.5Φ	
Pin No.	Symbols	Description
1	GND	Ground
2	+12V	+12V DC power input.
3	GND	Ground

	12V Power Supply Input Connector Used : PH2.0 1*2 Side Entry Type Wafer Relate Female Housing :					
Pin No.	Symbols	Description				

1	+12V	+12V DC power input.
2	+12V	+12V DC power input.
3	GND	Ground
4	GND	Ground

6. Layout Pictures-



7. Photo of A/D Board

