

TFT-DISPLAY DATASHEET

STI
Model: SL4238ML-HGB

BRIEF SPEC.:

Main Feature

Landscape

Ultra high brightness

Active Screen Area	927.94 x 260.97 [mm]
Diagonal Format	42" 25:7
Resolution	1920 X 540
Colors	16.7M/1.06B [8/10Bit color]
Backlight	LED
Brightness	2000 cd/m ²
LED Life Time	50K(h)
Interface	LVDS
Touchscreen	No
Module Outline	945.74 x 288.86 x 34.8 [mm]
Operation Temperature	0 ... +50 °C
Storage Temperature	-20... +60 °C
Surface Treatment	Anti-glare, Hard coating 3H

Specification

MODEL : SL4238ML-HGB

VERSION : 0.0

DATA : 26 / 10 / 2017

Signature

Data

**Please return 1 copy for your information
with your signature and comments**

Approved by

Data

**Product Engineering Dept.
Systems Technology Inc.**

The Information Described in this Specification is Preliminary and can be changed without prior notice

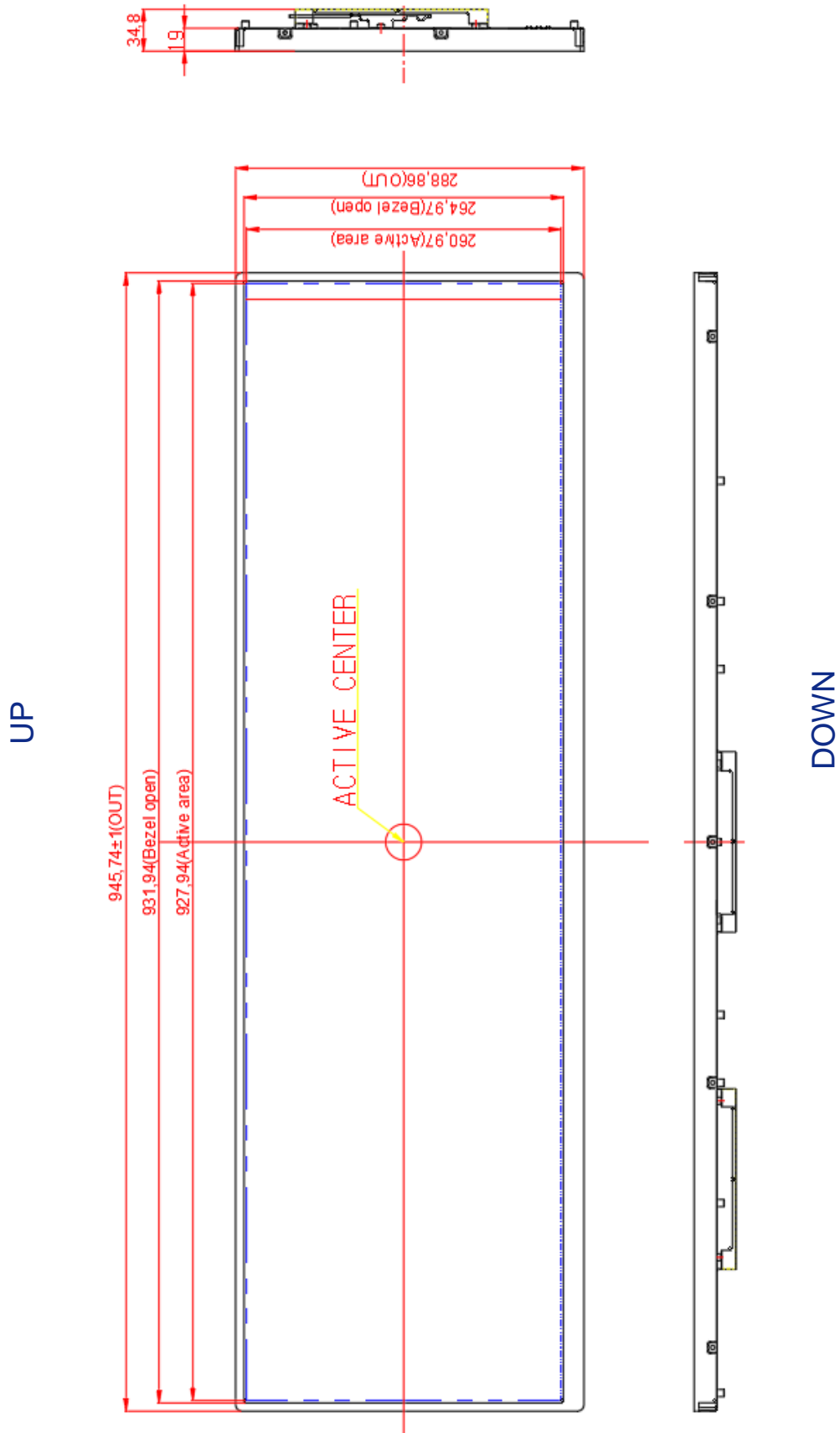
SL4238ML-HGB Specification

○ General Module Specification

Item	Unit	Specification	Remarks
Display format	-	42inch (1/2) High brightness LCD, 16:6	
Active display size	mm	927.94(H) x 260.97(V)	
Outline dimension	mm	945.74(H) x 288.86(V) x 34.8(D)	TBD
Resolution	Pixel	1920 (H) x 540 (V) RGB stipe arrangement	
Pixel pitch	mm	0.4833 x 0.4833	
Interface		LVDS 2Port	
Color depth	Colors	8bit, 16.7 Million or 10bit(D), 1.06 Billion colors	
Backlight system	-	2 LED Array, direct light with Driver B/D	
Luminance, white	cd/m ²	2000 (Center 1Point, Typ.)	TBD
Power consumption	W	116 W	TBD
Viewing angle (CR>10)		Viewing angle free (R/L178(Min), U/D178(Min.))	
Surface treatments	-	Hard coating(3H), Anti-glare treatment of the front polarizer (Haze 10% (typ))	
Display mode	-	Transmissive mode, Normally black	
Weight	Kg	(Typ.)	TBD
Life time	Hrs	50,000(Typ.)	
Operating temperature	°C	0 ~ 50	
Storage temperature	°C	-20 ~ 60	

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○ Front view



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Electrical Specifications

1. LCD Module

- LCD Connector(CN1):
 FI-RXE51S-HF(manufactured by JAE) GT05P-51S-H38(manufactured by LSM) or
 IS050-C51B-C39(manufactured by UJU)
- Mating Connector : FI-R51HL(JAE) or compatible

No	Symbol	Description	No	Symbol	Description
1	NC	Note 4	27	Bit Select	'H' = 10bit(D) , 'L' or NC = 8bit
2	NC	Note 4	28	R2AN	SECOND LVDS Receiver Signal (A-)
3	NC	Note 4	29	R2AP	SECOND LVDS Receiver Signal (A+)
4	NC	Note 4	30	R2BN	SECOND LVDS Receiver Signal (B-)
5	NC	Note 4	31	R2BP	SECOND LVDS Receiver Signal (B+)
6	NC	Note 4	32	R2CN	SECOND LVDS Receiver Signal (C-)
7	LVDS Select	'H' = JEIDA , 'L' or NC = VESA	33	R2CP	SECOND LVDS Receiver Signal (C+)
8	NC	Note 4	34	GND	Ground
9	NC	Note 4	35	R2CLKN	SECOND LVDS Receiver Clock Signal(-)
10	NC	Note 4	36	R2CLKP	SECOND LVDS Receiver Clock Signal(+)
11	GND	Ground	37	GND	Ground
12	R1AN	FIRST LVDS Receiver Signal (A-)	38	R2DN	SECOND LVDS Receiver Signal (D-)
13	R1AP	FIRST LVDS Receiver Signal (A+)	39	R2DP	SECOND LVDS Receiver Signal (D+)
14	R1BN	FIRST LVDS Receiver Signal (B-)	40	R2EN	SECOND LVDS Receiver Signal (E-)
15	R1BP	FIRST LVDS Receiver Signal (B+)	41	R2EP	SECOND LVDS Receiver Signal (E+)
16	R1CN	FIRST LVDS Receiver Signal (C-)	42	NC or GND	No Connection or Ground
17	R1CP	FIRST LVDS Receiver Signal (C+)	43	NC or GND	No Connection or Ground
18	GND	Ground	44	GND	Ground
19	R1CLKN	FIRST LVDS Receiver Clock Signal(-)	45	GND	Ground
20	R1CLKP	FIRST LVDS Receiver Clock Signal(+)	46	GND	Ground
21	GND	Ground	47	NC	No connection
22	R1DN	FIRST LVDS Receiver Signal (D-)	48	VLCD	Power Supply +12.0V
23	R1DP	FIRST LVDS Receiver Signal (D+)	49	VLCD	Power Supply +12.0V
24	R1EN	FIRST LVDS Receiver Signal (E-)	50	VLCD	Power Supply +12.0V
25	R1EP	FIRST LVDS Receiver Signal (E+)	51	VLCD	Power Supply +12.0V
26	NC or GND	NC or Ground	-	-	-

notes

1. All GND (ground) pins should be connected together to the LCD module's metal frame.
2. All VLCD (power input) pins should be connected together.
3. All Input levels of LVDS signals are based on the **EIA 644** Standard.
4. **#1~#6 & #8~#9** NC (No Connection): These pins are used only for LGD (Do not connect)
5. LVDS pin (pin No. **#24,25,40,41**) are used for 10Bit(D) of the LCD module.
 If used for 8Bit(R), these pins are no connection.
6. Specific pin No. **#44** is used for "No signal detection" of system signal interface.
 It should be GND for NSB (No Signal Black) while the system interface signal is not.
 If this pin is "H", LCD Module displays AGP (Auto Generation Pattern).

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2. Backlight

- LED Driver Connector (Master 1ea) : 20022WR-14B1(Yeonho) or Equivalent
- Mating Connector : 20022HS-14 or Equivalent

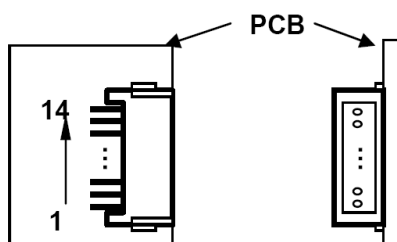
LED DRIVER CONNECTOR PIN CONFIGURATION

No.	Symbol	Description	Master / Slave	
1	VBL	Power Supply +24.0V	VBL	
2	VBL	Power Supply +24.0V	VBL	
3	VBL	Power Supply +24.0V	VBL	
4	VBL	Power Supply +24.0V	VBL	
5	VBL	Power Supply +24.0V	VBL	
6	GND	Backlight Ground	GND	1
7	GND	Backlight Ground	GND	
8	GND	Backlight Ground	GND	
9	GND	Backlight Ground	GND	
10	GND	Backlight Ground	GND	
11	NC	No connection	OPEN or GND	
12	Von / off	Backlight ON / OFF control	Von / off	5V : on / 0V : off
13	EXT VBR-B	External PWM	EXT VBR-B	2
14	NC	No connection	OPEN or GND	

Notes :

1. GND should be connected to the LCD module's metal frame.
2. High : on duty / Low : off duty. PWM Signal (Min : duty 10% , Max : 100 %)
3. Each impedance of pin #12 and 13 is over 50 [KΩ].

■ Rear view of LCM



< Master >