




Military Display

# 10.1 inch LCD Module Specification

Model No. : SLM-MR101M-E

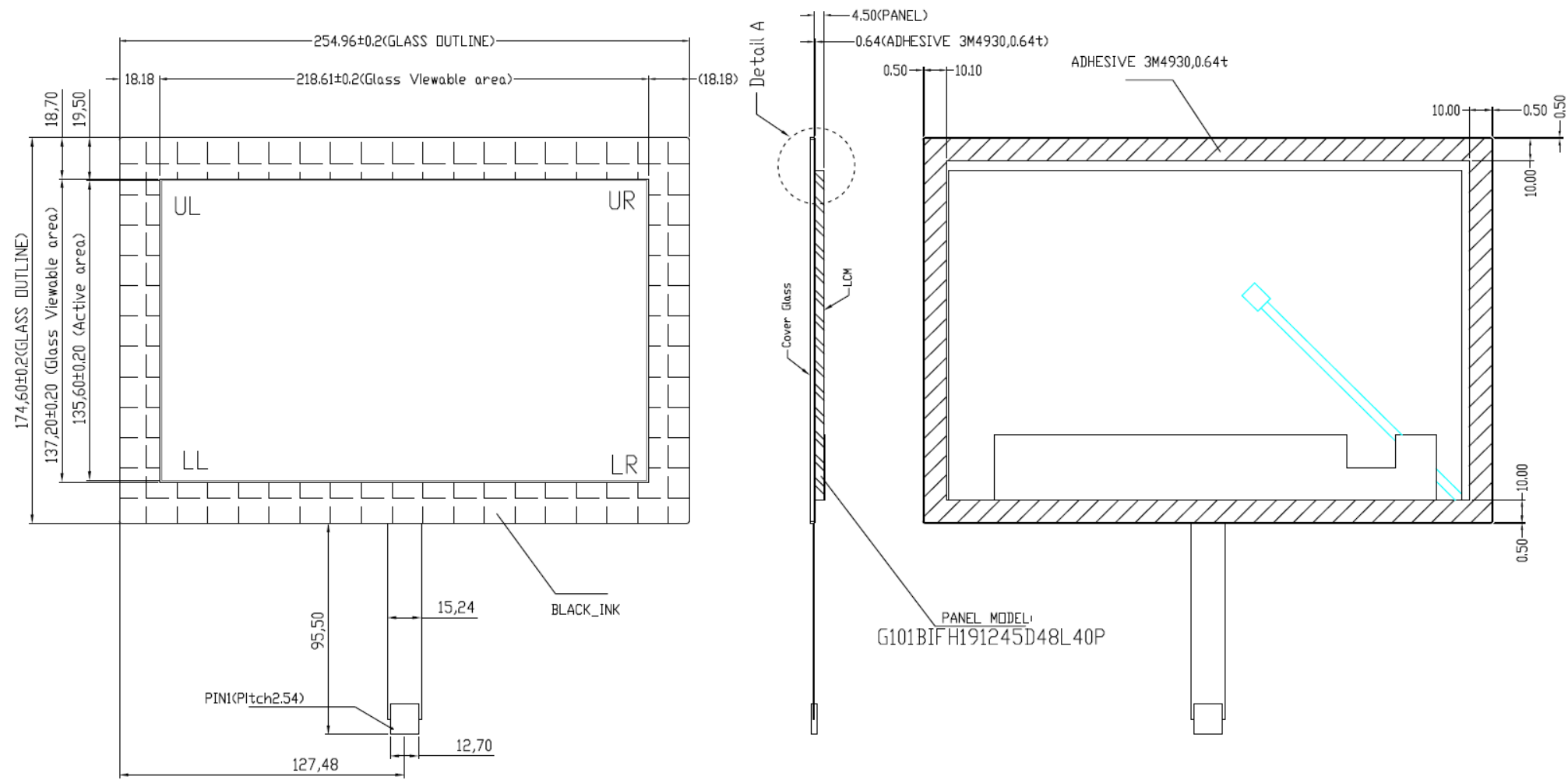
Date : 2021/3/29

Revision : 0.6

ACT Power GM Approve	ACT Power PM Approve
	

# SLM-MR101M-E

## Appearance



## LVDS Pin Assignment

Pin No.	Symbol	Description	I/O
1	VLED-	LED Cathode	P
2	VLED-	LED Cathode	P
3	VLED+	LED Anode	P
4	VLED+	LED Anode	P
5	NC	NC	-
6	GND	GROUND	P
7	ELV3P	EVEN LVDS Positive data signal (+)	I
8	ELV3N	EVEN LVDS Negative data signal (-)	I
9	GND	GROUND	P
10	ELV2P	EVEN LVDS Positive data signal (+)	I
11	ELV2N	EVEN LVDS Negative data signal (-)	I
12	GND	GROUND	P
13	ELVCLKP	EVEN LVDS Positive CLK signal (+)	I
14	ELVCLKN	EVEN LVDS Negative CLK signal (-)	I
15	GND	GROUND	P
16	ELV1P	EVEN LVDS Positive data signal (+)	I
17	ELV1N	EVEN LVDS Negative data signal (-)	I
18	GND	GROUND	P
19	ELV0P	EVEN LVDS Positive data signal (+)	I
20	ELV0N	EVEN LVDS Negative data signal (-)	I

Pin No.	Symbol	Description	I/O
21	GND	GROUND	P
22	OLV3P	Odd LVDS Positive data signal (+)	I
23	OLV3N	Odd LVDS Negative data signal (-)	I
24	GND	GROUND	P
25	OLV2P	Odd LVDS Positive data signal (+)	I
26	OLV2N	Odd LVDS Negative data signal (-)	I
27	GND	GROUND	P
28	OLVCLKP	Odd LVDS Positive CLK signal (+)	I
29	OLVCLKN	Odd LVDS Negative CLK signal (-)	I
30	GND	GROUND	P
31	OLV1P	Odd LVDS Positive data signal (+)	I
32	OLV1N	Odd LVDS Negative data signal (-)	I
33	GND	GROUND	P
34	OLV0P	Odd LVDS Positive data signal (+)	I
35	OLV0N	Odd LVDS Negative data signal (-)	I
36	GND	GROUND	P
37	I2C_SDA	OTP_SDA	I
38	I2C_SCL	OTP_SCL	I
39	VDD_OTP	OTP Power supply VDD OTP=8.6V	P
40	EEPEN	Not Connection	I
41	VDDIN	Power supply VDDIN=3.3V (Typ.)	P
42	VDDIN		P
43	VDDIN		P
44	VDDIN		P
45	VDDIN		P





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## Specifications

### LCD Module

LCD Size	10.1 TFT LCD
Backlight	LED
Resolution	1920 x 1200
View Angle	± 80° (H), ±80° (V)
Luminance	700 cd/m2 (after bonding)
Contrast Ratio	900:1
Aspect Ratio	16:10
Response Time	30 ms
No. of Color	16.7M (True 8 Bit)
Active area	216.8064(H) x 135.504(V) mm
Pixel Pitch	0.03764 (H) x 0.11292 (V)
LED Life Time	70,000Hrs

### Touch Screen

Touch Type	5-Wire Resistive Touch
Viewable Area	219.56 x 138.20 mm
Active Area	217.56 x 136.20 mm
Touch Interface	USB
Touch Glass	AG/AR Strengthen Glass
Optical Bonding	EMI mesh with optical bonding
Touch Drivers	Support Windows, Linux, Mac, etc.

### Environmental

Operating Temperature	-20°C to +70°C (*)
Storage Temperature	-30°C to +80°C (*)
Humidity	Operating: 90%, @ 60°C non-condensing
EMI/EMC	The LCD Kit is designed to meet ML-STD-461E/F (*)
Shock	The LCD Kit is designed to meet MIL-STD-810D (*)
Vibration	The LCD Kit is designed to meet MIL-STD-810E (*)
Altitude above sea level	0~9144 M (30000 feet) (*)

### Accessories – Deliverables with LCD Module

LVDS Cable	Molex 0150181173
Touch Control Board (Model: ADM-H0202)	5-wire USB Touch Panel Controller

\* : LCD kit has to be properly packed with bezel and back cover with required EMI-EMC and IP Gaskets to meet EMI/EMC and Environmental specifications



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## Order information

Model Name	Description	Qty
SLM-MR101M-E	10.1 inch LCD Module Deliver with (a) Molex 0150181173 (LVDS Cable) (b) ADM-H0202: Touch Control Board	1 1 1