




Military Display

# 27 inch LCD Module Specification

Model No. : SLM-MN270M-E

Date : 2021/3/29

Revision : 0.6

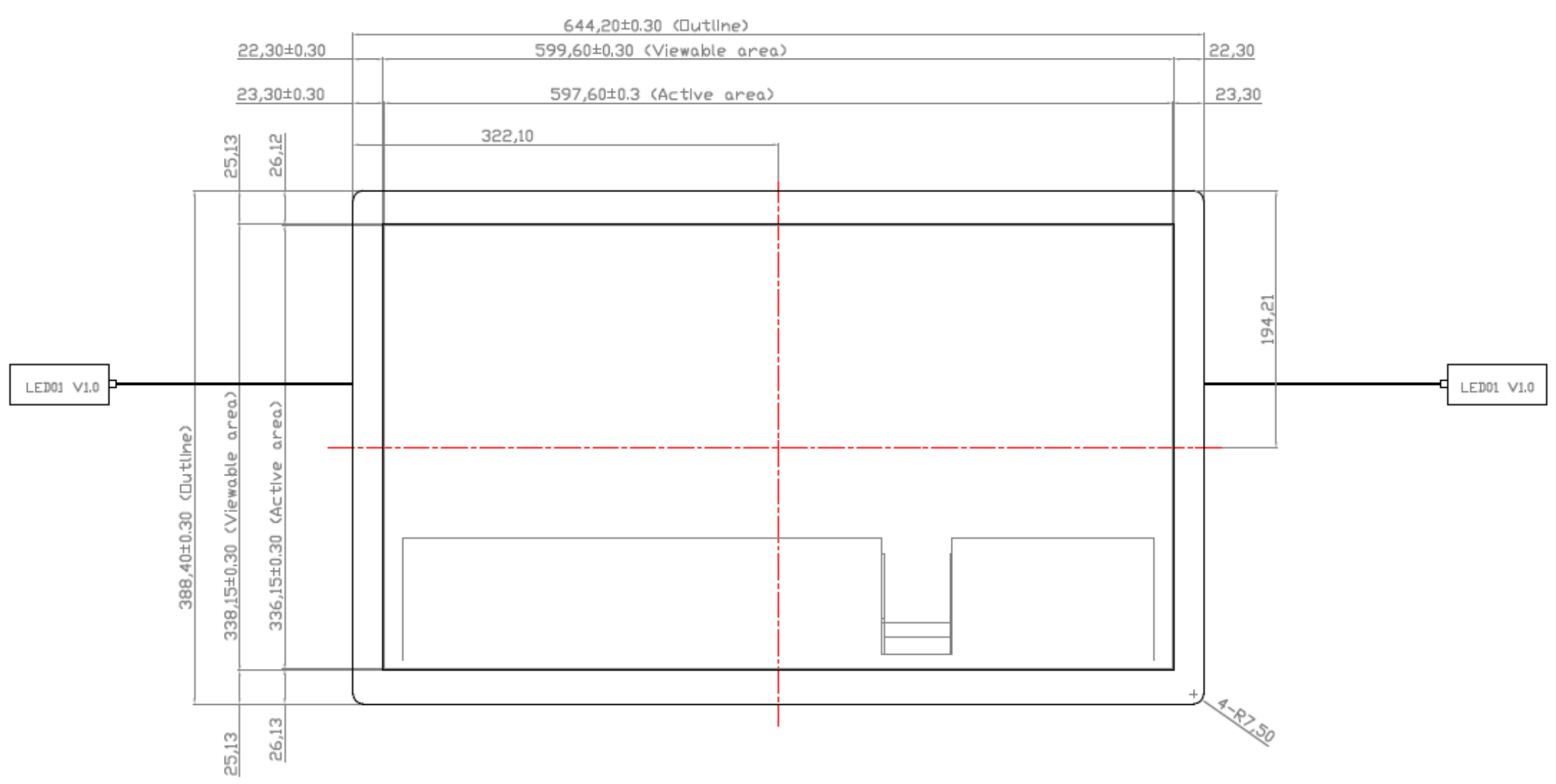
ACT Power GM Approve	ACT Power PM Approve
	





# SLM-MN270M-E

## Appearance



## LVDS Pin Assignment

PIN #	SIGNAL NAME	DESCRIPTION
1	RX00-	Negative LVDS differential data input (Odd data)
2	RX00+	Positive LVDS differential data input (Odd data)
3	RX01-	Negative LVDS differential data input (Odd data)
4	RX01+	Positive LVDS differential data input (Odd data)
5	RX02-	Negative LVDS differential data input (Odd data, H-Sync, V-Sync, DSPTMG)
6	RX02+	Positive LVDS differential data input (Odd data, H-Sync, V-Sync, DSPTMG)
7	GND	Power Ground
8	RXOCLK-	Negative LVDS differential clock input (Odd clock)
9	RXOCLK+	Positive LVDS differential clock input (Odd clock)
10	RX03-	Negative LVDS differential data input (Odd data)
11	RX03+	Positive LVDS differential data input (Odd data)
12	RXE0-	Negative LVDS differential data input (Even data)
13	RXE0+	Positive LVDS differential data input (Even data)
14	GND	Power Ground
15	RXE1-	Negative LVDS differential data input (Even data)
16	RXE1+	Positive LVDS differential data input (Even data)
17	GND	Power Ground
18	RXE2-	Negative LVDS differential data input (Even data)
19	RXE2+	Positive LVDS differential data input (Even data)
20	RXECLK-	Negative LVDS differential clock input (Even clock)
21	RXECLK+	Positive LVDS differential clock input (Even clock)
22	RXE3-	Negative LVDS differential data input (Even data)
23	RXE3+	Positive LVDS differential data input (Even data)
24	GND	Power Ground
25	GND	Power Ground (For AUO test Aging+HVS mode)
26	NC	No contact
27	GND	Power Ground
28	VDD	+5.0V Power Supply
29	VDD	+5.0V Power Supply
30	VDD	+5.0V Power Supply





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## Specifications

### LCD Module

LCD Size	27 TFT LCD
Backlight	LED
Resolution	1920 x 1080
View Angle	± 89° (H), ±89° (V)
Luminance	1000 cd/m2 (after bonding)
Contrast Ratio	3000:1
Aspect Ratio	16:9
Response Time	20 ms
No. of Color	16.7M (True 8 Bit)
Active area	597.6(H) x 336.15(V) mm
Pixel Pitch	311.25 (per one triad) x 311.25 um
LED Life Time	50,000 hours

### Environmental

Operating Temperature	-20°C to +55°C (*)
Storage Temperature	-30°C to +70°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

LED Driver Board (Model: ACT-EE0003) x2	LED Backlight Driver Board
LVDS Cable (Model: ACT-C0001)	LVDS Cable connection between SLM-MR270M-E panel and AD Board 350mm± 10mm with grounding holes
LED Driver Board Cable (Model: ACT-C0002)	Cable connection between AD Board and LED Driver Board 250mm± 10mm, with grounding holes

\* : 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

## Order information

Model Name	Description	Qty
SLM-MN270M-E	27 inch LCD Module	1
	Deliver with	
	(a) ACT-EE0003: LED Driver board x2	1
	(b) ACT-C0001: LVDS Cable	1
	(c) ACT-C0002: LED Driver Board Cable	1