



# 27" LCD Module Specification

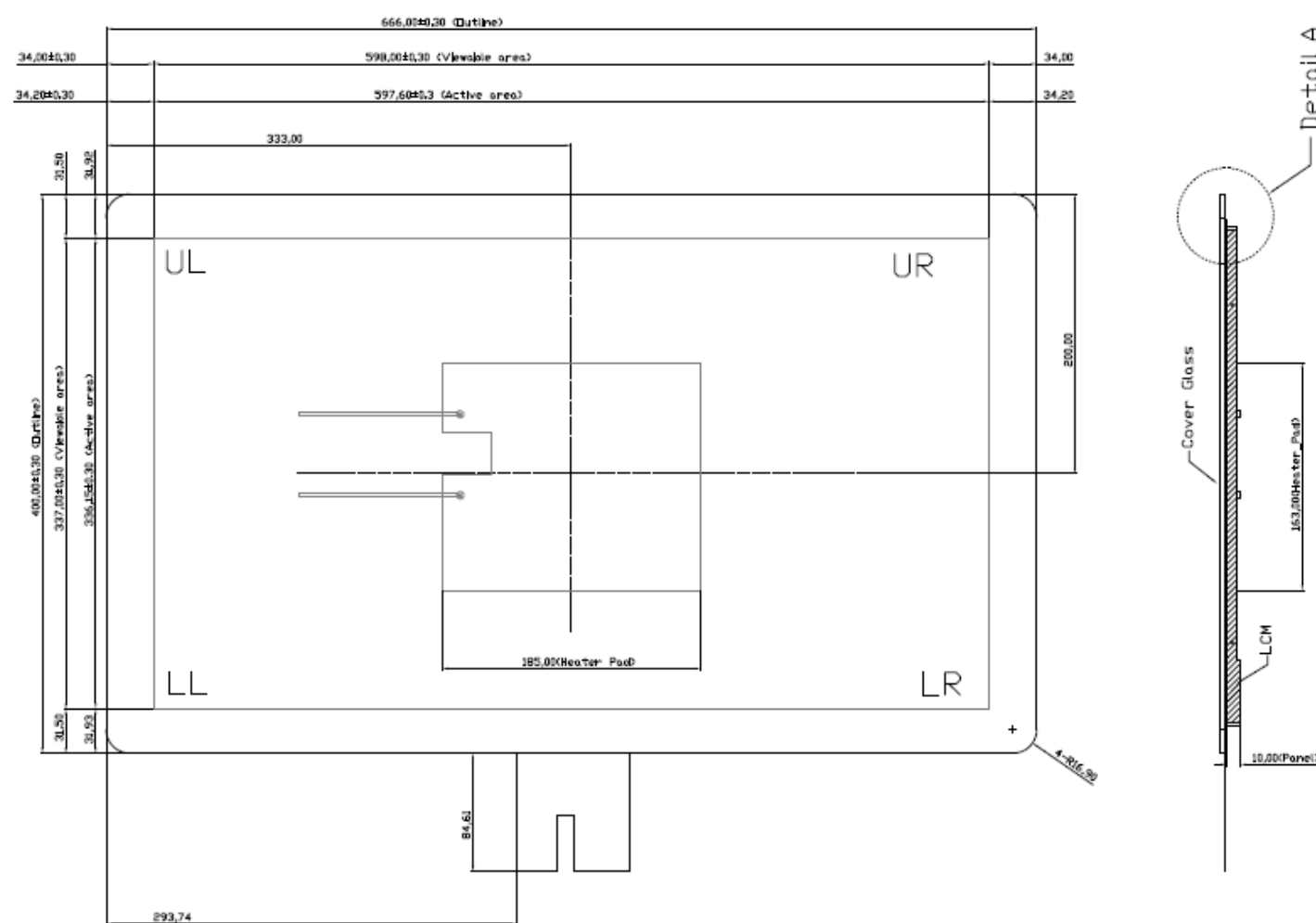
Model No. : SLM-MC270M1-E

Date : \_\_\_\_\_

| Customer | ACT Power GM |
|----------|--------------|
|          |              |

# SLM-MC270M1-E

## Appearance



## LVDS Pin Assignment

### PIN ASSIGNMENT

| Pin | Name  | Description                                              |
|-----|-------|----------------------------------------------------------|
| 1   | RXC0- | Negative LVDS differential data input. Channel 00 (odd)  |
| 2   | RXC0+ | Positive LVDS differential data input. Channel 00 (odd)  |
| 3   | RXC1- | Negative LVDS differential data input. Channel 01 (odd)  |
| 4   | RXC1+ | Positive LVDS differential data input. Channel 01 (odd)  |
| 5   | RXC2- | Negative LVDS differential data input. Channel 02 (odd)  |
| 6   | RXC2+ | Positive LVDS differential data input. Channel 02 (odd)  |
| 7   | GND   | Ground                                                   |
| 8   | RXC0- | Negative LVDS differential clock input. (odd)            |
| 9   | RXC0+ | Positive LVDS differential clock input. (odd)            |
| 10  | RXC3- | Negative LVDS differential data input. Channel 03 (odd)  |
| 11  | RXC3+ | Positive LVDS differential data input. Channel 03 (odd)  |
| 12  | RXE0- | Negative LVDS differential data input. Channel E0 (even) |
| 13  | RXE0+ | Positive LVDS differential data input. Channel E0 (even) |
| 14  | GND   | Ground                                                   |
| 15  | RXE1- | Negative LVDS differential data input. Channel E1 (even) |
| 16  | RXE1+ | Positive LVDS differential data input. Channel E1 (even) |
| 17  | GND   | Ground                                                   |
| 18  | RXE2- | Negative LVDS differential data input. Channel E2 (even) |
| 19  | RXE2+ | Positive LVDS differential data input. Channel E2 (even) |
| 20  | RXC-  | Negative LVDS differential clock input. (even)           |
| 21  | RXC+  | Positive LVDS differential clock input. (even)           |
| 22  | RXE3- | Negative LVDS differential data input. Channel E3 (even) |
| 23  | RXE3+ | Positive LVDS differential data input. Channel E3 (even) |
| 24  | GND   | Ground                                                   |
| 25  | NC    | For LCD internal use only. Do not connect.               |

## Specifications

### LCD Module

|                |                                    |
|----------------|------------------------------------|
| LCD Size       | 27 TFT LCD                         |
| Backlight      | LED                                |
| Resolution     | 1920 x 1080                        |
| View Angle     | ± 89° (H), ±89° (V)                |
| Luminance      | 700 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  | 50,000Hrs                          |

### Touch Screen

|                 |                                   |
|-----------------|-----------------------------------|
| Touch Type      | Capacitive Touch                  |
| Viewable Area   | 598 x 337 mm                      |
| Active Area     | 597.6 x 336.15 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 +55°C (Note)                                                         |
| Storage Temperature      | -30°C to +70°C (Note)                                                         |
| Humidity                 | Operating: 95%, @ 40°C Non-Condensing                                         |
| EMI/EMC                  | The LCD Kit is designed to meet ML-STD-461E/F for a whole display unit (Note) |
| Shock                    | The LCD Kit is designed to meet MIL-STD-810D for a whole display unit (Note)  |
| Vibration                | The LCD Kit is designed to meet MIL-STD-810E for a whole display unit (Note)  |
| Altitude above sea level | 0~9144 M (30000 feet) (Note)                                                  |

**Note 1:** To work with mentioned certifications, this LCD Kit has offered the potential to be designed in to grain such certification however it is still depends on the final design of the full unit to pass the test and validation of such certification.

**Note 2:** Follow the industrial quality standard this LCD panel will include minimum 3 bright or dead pixels on viewable area and maxium total 5 bright or dead pixels on whole LCD panel.

## Order information

| Model Name    | Description             | Qty |
|---------------|-------------------------|-----|
| SLM-MC270M1-E | 27" Military LCD Module | 1   |