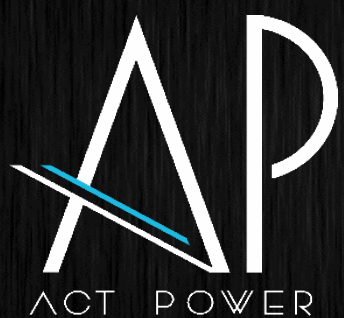




21.3" LCD Module Specification

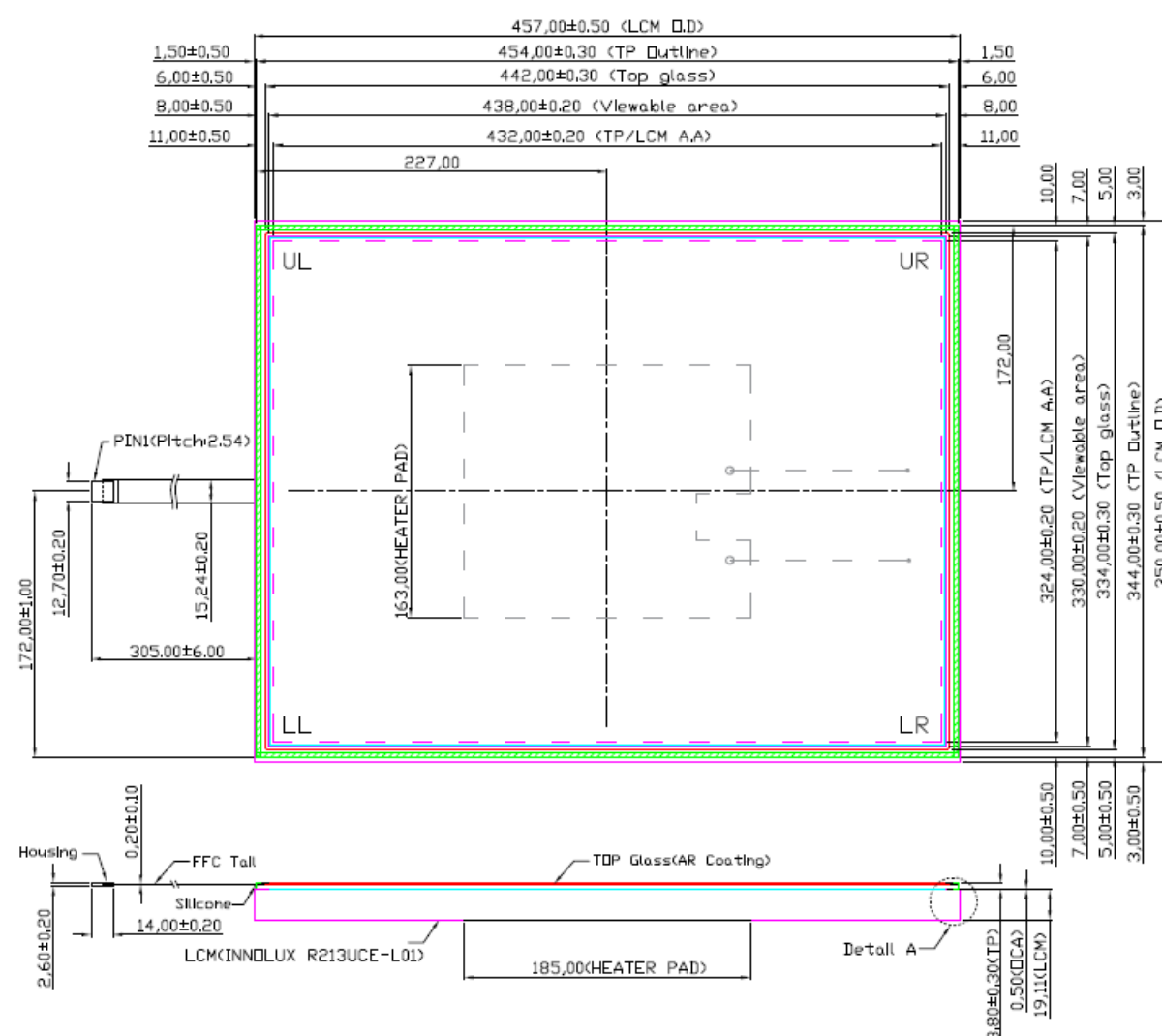
Model No. : SLM-MR213M1-E

Date : _____

Customer	ACT Power GM

SLM-MR213M1-E

Appearance



LVDS Pin Assignment

Pin	Name	Description	Pin	Name	Description
1	RX00-	Negative LVDS differential data input. Channel O0 (odd)	15	RXE1-	Negative LVDS differential data input. Channel E1 (even)
2	RX00+	Positive LVDS differential data input. Channel O0 (odd)	16	RXE1+	Positive LVDS differential data input. Channel E1 (even)
3	RX01-	Negative LVDS differential data input. Channel O1 (odd)	17	GND	Ground
4	RX01+	Positive LVDS differential data input. Channel O1 (odd)	18	RXE2-	Negative LVDS differential data input. Channel E2 (even)
5	RX02-	Negative LVDS differential data input. Channel O2 (odd)	19	RXE2+	Positive LVDS differential data input. Channel E2 (even)
6	RX02+	Positive LVDS differential data input. Channel O2 (odd)	20	RXEC-	Negative LVDS differential clock input. (even)
7	GND	Ground	21	RXEC+	Positive LVDS differential clock input. (even)
8	RXOC-	Negative LVDS differential clock input. (odd)	22	RXE3-	Negative LVDS differential data input. Channel E3 (even)
9	RXOC+	Positive LVDS differential clock input. (odd)	23	RXE3+	Positive LVDS differential data input. Channel E3 (even)
10	RX03-	Negative LVDS differential data input. Channel O3(odd)	24	NC	For LCD internal use only, Do not connect
11	RX03+	Positive LVDS differential data input. Channel O3 (odd)	25	SELLVDS	Low (0V) : VESA Mode (Default), High(3.3V) : JEIDA Mode Note(4)
12	RXE0-	Negative LVDS differential data input. Channel E0 (even)	26	NC	For LCD internal use only, Do not connect
13	RXE0+	Positive LVDS differential data input. Channel E0 (even)	27	NC	For LCD internal use only, Do not connect
14	GND	Ground	28	Vcc	+12.0V power supply
			29	Vcc	+12.0V power supply
			30	Vcc	+12.0V power supply

Note (1) Connector Part No.: P-TWO 187114-30091

Note (2) The first pixel is odd.

Note (3) Input signal of even and odd clock should be the same timing.

Specifications

LCD Module	
LCD Size	21.3 TFT LCD
Backlight	LED
Resolution	1600 X 1200
View Angle	± 89° (H), ±89° (V)
Luminance	900 cd/m2 (After Bonding)
Contrast Ratio	1800:1
Aspect Ratio	4:3
Response Time	16 ms
No. of Color	16.8M (True 8 Bit)
Active area	432 x 324 mm
Pixel Pitch	0.27 (H) x 0.27 (V)
LED Life Time	70,000 Hrs
Touch Screen	
Touch Type	5-Wire Resistive Touch
Viewable Area	438 x 330 mm
Active Area	432 x 324 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 +60°C (Note)
Storage Temperature	-30°C to +70°C (Note)
Humidity	5% to 90%, @ 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 gain 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-MR213M1-E	21.3" Military LCD Module	1