

Mini-LED Display Module

Features:

- High Brightness Level from 1,000 to 5,000 nits
- Display Size Available from 5" to 65"
- High Contrast Ratio: 100,000:1
- Lower Power Consumption: Reduced by 30% to 50%
- Sunlight Readable

Part number: EB101-ML5-Q2214A-20

Product description: 10.1" Mini-LED FALD Display Module

Local dimming zone: 576 zones

Brightness: 2000 nits

LCD: IPS

Resolution: 1280x800px, normally black

Viewing Angle: 80/80/80/80 (Typ.), CR≥10

Color depth: 16.7 M

Interface: LVDS

Operating temperature: -20°C ~ 80°C

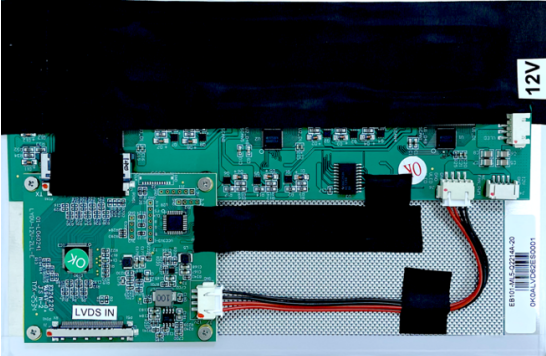
Storage temperature: -30°C ~ 80°C

Optional components: AD board (HDMI input) / OSD keypad (AD board required) / power adapter

Product Profile



Perspective view

Top View	Bottom View
	



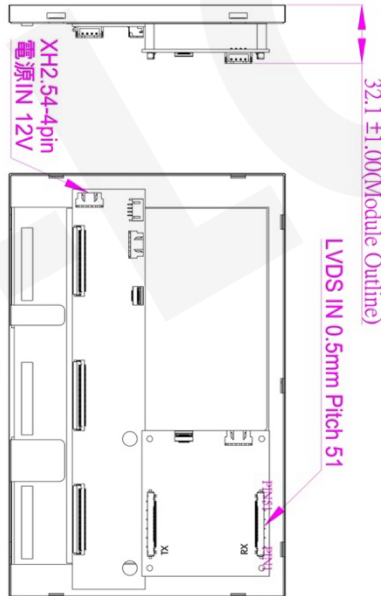
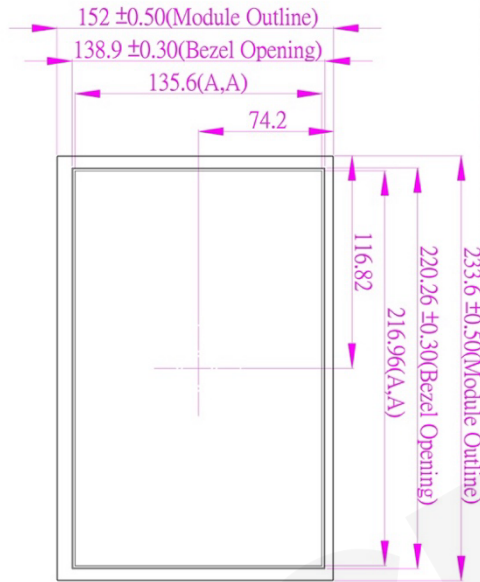
Optional
AD Board



OSD Keypad
(AD Board required)

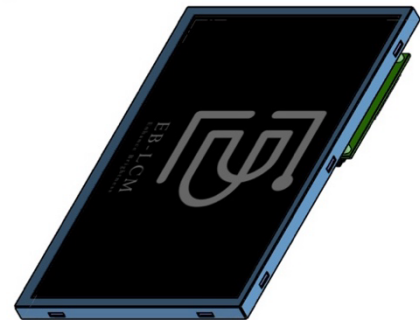


矽洋科技股份有限公司				1:1	MM				
製圖	設計	校對	核准	比例	單位	材質	數量	處理	版本
				*:10:15	機名	EB101-ML5-2214A-圖			
				**10:1	公				
				***10:05	差	圖名預設	號		



Pin	Symbol	Description	Note	Pin	Symbol	Description	Note
1	NC	No Connection		27	NC	No Connection	
2	NC	No Connection		28	CH2_0-	LVDS Channel 2, Signal 0-	
3	WP	Write Protection		29	CH2_0+	LVDS Channel 2, Signal 0+	
4	SDA	I2C Data		30	CH2_1-	LVDS Channel 2, Signal 1-	
5	NC	No Connection		31	CH2_1+	LVDS Channel 2, Signal 1+	
6	NC	No Connection		32	CH2_2-	LVDS Channel 2, Signal 2-	
7	LVDS_SEFL	LVDS data format selection		33	CH2_2+	LVDS Channel 2, Signal 2+	
8	NC	No Connection		34	CH2_3-	LVDS Channel 2, Signal 3-	
9	NC	No Connection		35	CH2_3+	LVDS Channel 2, Signal 3+	
10	NC	No Connection		36	CH2_CLK-	LVDS Channel 2, Clock -	
11	NC	No Connection		37	CH2_CLK+	LVDS Channel 2, Clock +	
12	CH1_0-	LVDS Channel 1, Signal 0-		38	CH2_3-	LVDS Channel 2, Signal 3-	
13	CH1_0+	LVDS Channel 1, Signal 0+		39	CH2_3+	LVDS Channel 2, Signal 3+	
14	CH1_1-	LVDS Channel 1, Signal 1-		40	NC	No Connection	
15	CH1_1+	LVDS Channel 1, Signal 1+		41	NC	No Connection	
16	CH1_2-	LVDS Channel 1, Signal 2-		42	CH2_0-	LVDS Channel 2, Signal 0-	
17	CH1_2+	LVDS Channel 1, Signal 2+		43	CH2_0+	LVDS Channel 2, Signal 0+	
18	CH1_3-	LVDS Channel 1, Signal 3-		44	CH2_1-	LVDS Channel 2, Signal 1-	
19	CH1_3+	LVDS Channel 1, Signal 3+		45	CH2_1+	LVDS Channel 2, Signal 1+	
20	CH1_CLK-	LVDS Channel 1, Clock -		46	CH2_2-	LVDS Channel 2, Signal 2-	
21	CH1_CLK+	LVDS Channel 1, Clock +		47	CH2_2+	LVDS Channel 2, Signal 2+	
22	GND	Ground		48	CH2_3-	LVDS Channel 2, Signal 3-	
23	CH1_3-	LVDS Channel 1, Signal 3-		49	CH2_3+	LVDS Channel 2, Signal 3+	
24	CH1_3+	LVDS Channel 1, Signal 3+		50	NC	No Connection	
25	NC	No Connection		51	VDD	Power Supply Input Voltage	1

Note1: Please power supply according to the screen voltage



Note on Intelligent Protection Mechanism: This module is equipped with a proactive Over Temperature Protection (OTP) system. For Average Picture Level (APL) exceeding 70% for more than 240 seconds, brightness will adjust gradually (10% every 30s) to safeguard internal components. Recovery to 100% brightness is automatic once APL drops below 60%. This mechanism is a standard safety feature to ensure the LCM's extended lifespan and consistent performance under varying usage scenarios.