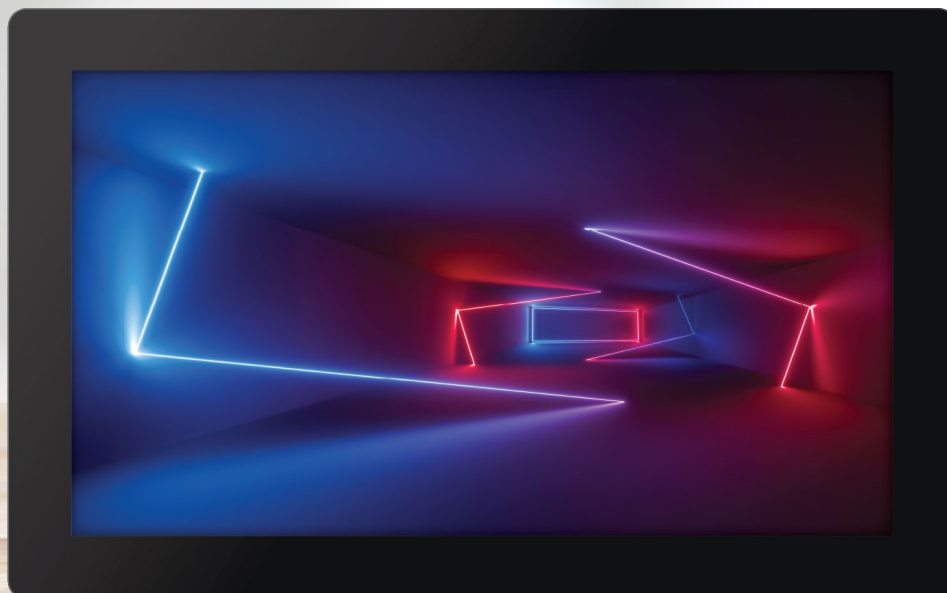


FM-101D9B

10.1 inch
Embedded Capacitive
Touch Screen Display



FM-101D9B

Description

FM-101D9B is a transmissive type color active matrix TFT (Thin Film Transistor) liquid crystal display (LCD) that uses amorphous silicon TFT as a switching device. This model is composed of a TFT-LCD module (TFT-LCD panel, driver IC and FPC), a back-light unit and. The resolution of 10.1" contains 1024RGBX600 pixels and can display up to 16.7M colors.

General Information

Items	Specifications	Units	Note
Display mode	TFT Transmissive, Positive, NW, TN	-	-
Drive element	a-Si TFT active matrix	-	-
LCM outline size	235.00(H)x143.00(V)x 4.5(T)	mm.	note (1) , (2)
Active area	222.72H)x125.28(V)	mm.	-
Number of pixels	1024X600	pixel	-
Pixel arrangement	RGB stripe	-	-
Pixel size	217.5(W) x 208.8(H)	um	-
Display color	16.7M	color	-
Viewing direction	70°	degree	-
Controller / Driver	-	-	-
Data interface	LVDS	-	-
Backlight	3 White LEDs In Series 8 Lines	-	-

(1) Touch panel and back-light unit are included.

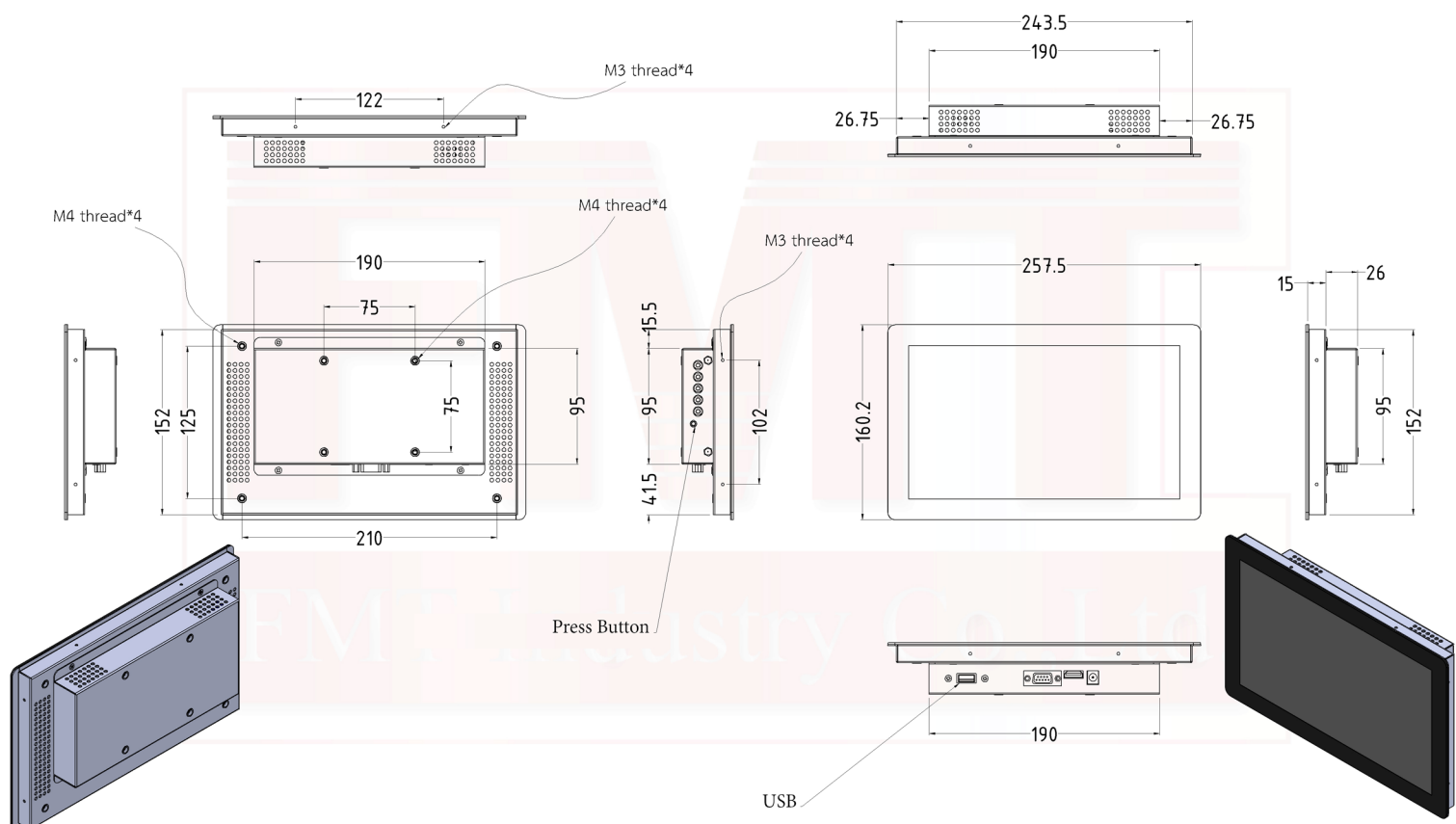
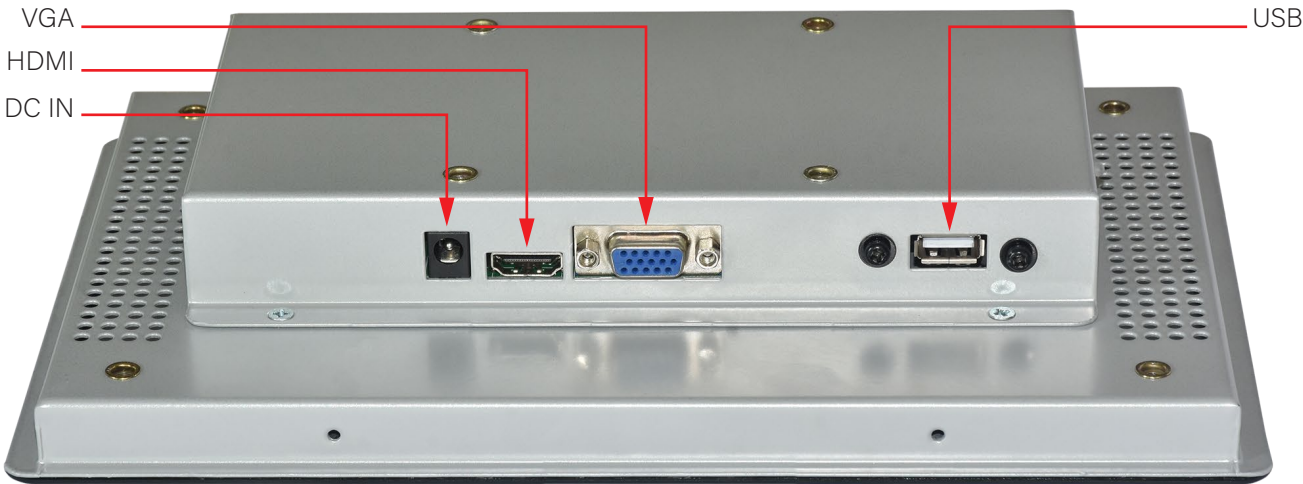
(2) FPC not included. Please see module specification drawing in for more details.

FMT Corporation Co.,Ltd.

Leading Business Automatic Machine
49/293 Soi Vibhavadi-Rangsit 64 Yeak 13,
Talat Bangkhen, Lak Si,
Bangkok 10210
02-5217155-59
086-6889050
fmt_sales@hotmail.com



Dimension and Connection



Specification

Size	10.1 Inch	
Product Series	Embedded capacitive touch screen display	
Shell Material	Electrolysis metal plate	
Display Type	Active Matrix TFT-LCD , LED Backlight	
LCD screen brand	-	
Resolution	1024 x 600 pixels	
Color Support	16.7 M	
Brightness	LCD Panel	350 cd/m ² [LCD Brightness can be specified by order.]
	After Install Touch Panel	350 cd/m ²
View angle	Horizontal	70°
	Vertical	70°
LCD Display Ratio	16 : 9	
Contrast	600 : 1	
Response Time	5 ms.	
Power	Adaptor DC 12V 3A , Input 220VAC 50Hz.	
Video Input Format	HDMI , VGA	
Environment	Operating Temp.	0 - 60 °C
	Storage Temp.	-20 - 60 °C
	Working Humidity	10% - 90%
	Storage Humidity	10% - 90%
Mean time between failures (MTBF)	20,000 Hrs.	
LED Backlight Life	20,000 Hrs.	
Power Consumption	15 Watt (Max)	
Touch Screen Type	10.1 inch Multi-Point projected capacitive touch screen (2.5 mm. Touch Screen Tempered Glass)	
Touch Screen Interface	USB 2.0 (RS232 port is an optional)	
Support Operating System	Windows XP / 7 / 8 / 10 , Android , Mac-OS , Linux	
Warranty	6 - 12 Months	

Items	Symbol	Condition	Min	Max	Unit
Power Voltage	VDD	GND = 0	-0.3	4	V
Power Voltage	Vin	GND = 0	-0.3	VDD + 0.3	V
Logic Output Voltage	Vout	GND = 0	-0.3	VDD + 0.3	V
Storage Temp (Ambient)	-	-	-30	+80	°C
Operating Temp (Ambient)	-	-	-20	-70	°C
High Temp and High Humidity	-	-	60 °C , 90% RH , 240 hrs.		
Thermal shock	-	-	-30 °C - 80 °C , 100 cycle per 30 min		

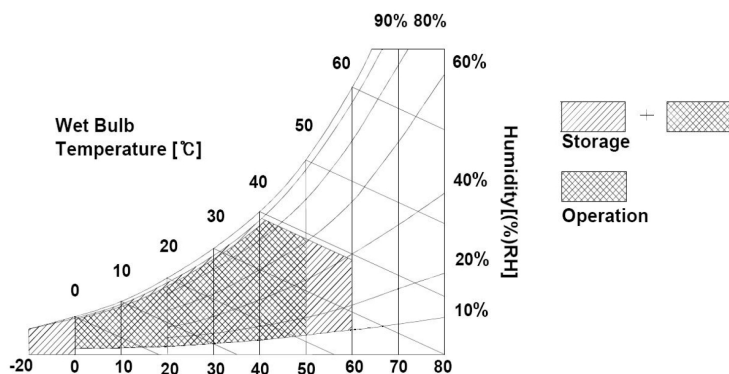
Note: Device is subject to be damaged permanently if stresses beyond those absolute maximum ratings listed above

1. Temp 80 °C ,90% RH MAX

2. Temp 80 , Absolute humidity shall be less than 90% RH at_80

3. Dry Bulb Temperature [°C]

No.	Test Item	Condition
1	High Temperature Storage Test	Ta=60 °C , 240h
2	Low Temperature Storage Test	Ta=-20 °C , 240h
3	High Temperature Operation Test	Ta=50 °C , 50%RH , 240h
4	Low Temperature Operation Test	Ta=0 °C , 240h

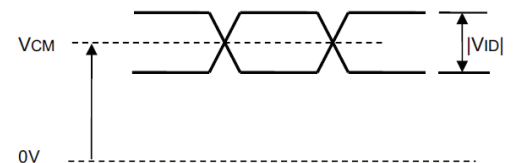


Items	Symbol	Values			Units	Remark
		Min.	Typ.	Max.		
Power Supply Voltage	VDD	3	3.3	3.6	V	
Power Supply Voltage	AVDD	10.5	10.85	11.2	V	
Power Supply Voltage	VCOM	3.6	3.7	3.8	V	
Power Supply Voltage	VGL	-9	-8	-7	V	
Power Supply Voltage	VGH	20	21	22	V	
LVDS Differential Input (High)	V _{TH(LVDS)}	-	-	+100	mV	Note (2)
LVDS Differential Input (Low)	V _{TL(LVDS)}	-100	-	-	mV	Note (2)
LVDS Common Mode Voltage	V _{CM}	1.125	-	1.375	V	Note (2)
LVDS Differential Input Voltage	V _{ID}	100	-	600	mV	Note (2)
Terminating Resistor	R _T	-	100	-	Ohm	

(1) The ambient temperature is Ta = 25 ± 2 °C

(2) The parameter of LVDS signals are defined as the following figure

Single Ended



Differential

