GT800X480A-1013P

SIMPLIFIED DATASHEET

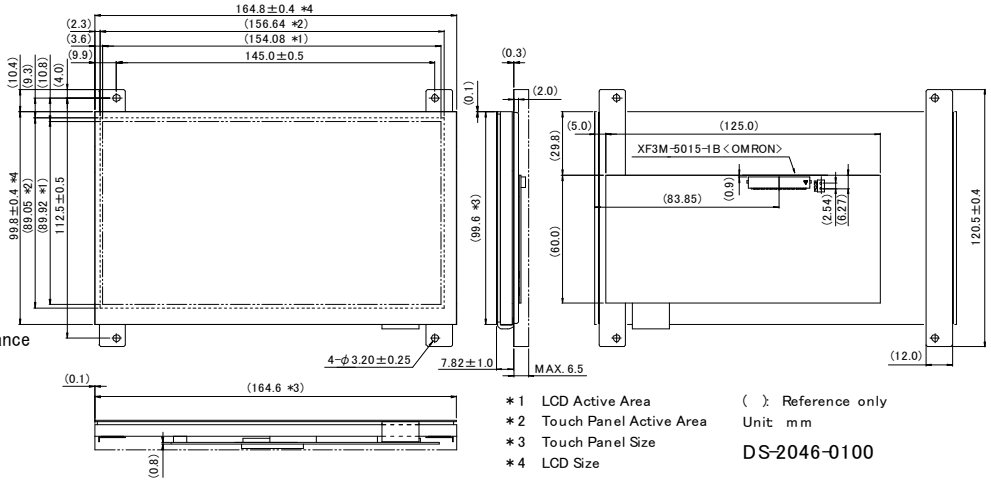
■ Features

- 7 inch TFT-LCD
- 800 x RGB x 400 dot
- High Brightness (850cd/m2)
- Video input is RGB Parallel (18bit/24bit)
- Touch I/F is I2C (HID compliant)
- Quick Setup (Just connect to a SBC host)
- Supports SBC "Armadillo-640"
- FLETAS touch panel mounted

[Features of FLETAS]

- High sensitivity
- Excellent noise resistance

■ Physical Dimensions



*1 LCD Active Area
*2 Touch Panel Active Area
*3 Touch Panel Size
*4 LCD Size

( ): Reference only
Unit mm

DS-2046-0100

Get full specification

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Specifications

■ Basic Specification

Item		Content
Display	Type	TFT-LCD
	Size	7.0 inches
	Display Area	154.08 x 85.92 mm (X x Y)
	Number of Pixels	800 x RGB x 480
	Pixel Pitch	0.1926 x 0.179 mm (X x Y)
	Colors	16.7M (24-bit color)
	Recommend Viewing Direction	12 o'clock
	Gray Scale Inversion Direction	6 o'clock
	Brightness (100%)	Typ. 850 cd/m2 (nit)
	Display Signal Interface	RGB Parallel (8bit x RGB / 6bit x RGB)
FLETAS Touch Panel	Type	Metallized projective capacitive touch
	Touch Active Area	156.64 x 89.05 mm
	Number of Touches	Max. 10 points (Multi touch possible)
	Interface	I2C (HID compliant)
Control	Commands	Backlight (Display Brightness) adjustment, Touch sensitivity adjustment, etc.

■ Electrical Ratings

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
Power Supply Voltage	VCC	4.75	5.00	5.25	VDC	-

■ Electrical Characteristics

Conditions: Ambient temperature = 25°C, VCC=5.0VDC

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
I2C	(*1)I2C INT	VOH1	2.7	-	-	VDC	IOH1 = -2.0mA
		VOL1	-	-	0.5	VDC	IOL1 = 1.5mA
Power Supply Current 1		ICC1-1	-	500	650	mADC	(*2)Brightness 100%
Power Supply Current 2		ICC1-2	-	255	330	mADC	(*2)Brightness 50%
Power Supply Current 3		ICC2	-	35	45	mADC	-
Power Consumption		P1	-	2.5	3.25	W	(*2)Brightness 100%
			-	1.28	1.65	W	(*2)Brightness 50%
		P2	-	0.12	0.15	W	-

(*1) Logic output voltage, (*2) Display ON

■ Environmental Specifications

Parameter	Content
Operating Temperature	-20 to +70℃
Storage Temperature	-30 to +80℃
Operating Humidity	Temp. ≦ 60 °C, 80% RH MAX. (No dew condensation)
	Temp. ＞ 60 °C, Absolute humidity shall be less than 80% RH at 60 °C (No dew condensation)
Vibration (non-operating)	10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z
Shock (non-operating)	392m/s2 (40G) 9ms X-Y-Z, 3 times each direction

■ Interface／Connectors

・ [CN4] RGB Parallel, I2C, PWM, Power Supply

Pin No.	Terminal	I/O	Internal Processing
1	VCC1 (5V)	Power	
2	VCC1 (5V)	Power	
3	VCC1 (5V)	Power	
4	VCC2 (3.3V)	Power	-
5	VCC2 (3.3V)	Power	
6	GND	Power	
7	GND	Power	
8	LCD_CLK	Input	*1
9	LCD_HSYNC	Input	*2
10	LCD_VSYNC	Input	
11	LCD_ENABLE	Input	*1
12	GND	Power	-
13	LCD_DATB2	Input	
14	LCD_DATB3	Input	
15	LCD_DATB4	Input	*1
16	LCD_DATB5	Input	
17	LCD_DATB6	Input	
18	LCD_DATB7	Input	
19	GND	Power	-
20	LCD_DATG2	Input	
21	LCD_DATG3	Input	
22	LCD_DATG4	Input	*1
23	LCD_DATG5	Input	
24	LCD_DATG6	Input	
25	LCD_DATG7	Input	

Pin No.	Terminal	I/O	Internal Processing
26	GND	Power	-
27	LCD_DATR2	Input	
28	LCD_DATR3	Input	
29	LCD_DATR4	Input	*1
30	LCD_DATR5	Input	
31	LCD_DATR6	Input	
32	LCD_DATR7	Input	
33	GND	Power	-
34	/RESET	Input	*3
35	18BIT_ENABLE	Input	
36	NC	-	-
37	BOOT	Input	*4
38	GND	Power	-
39	I2C INT	Output	*5
40	I2C SDA	I/O	*3
41	I2C SCL	I/O	
42	LCD_DATB0	Input	
43	LCD_DATB1	Input	
44	LCD_DATG0	Input	※1
45	LCD_DATG1	Input	
46	LCD_DATR0	Input	
47	LCD_DATR1	Input	
48	NC	-	-
49	PWM	Input	*6
50	GND	Power	-

*1 Pull Down; R=100kΩ
*2 Pull Up with 3.3V; R=100kΩ
*3 Pull Up with 3.3V; R=4.7kΩ
*4 Pull Up with 3.3V; R=4.7kΩ
(Factory use only. Do not connect.)
*5 connected CPU via series resistance
*6 Pull Down; R=10kΩ

■ Functions

- Single-touch mode/ multi-touch mode setting
- Memory SW function
- Brightness level setting
- Touch sensitivity setting

etc.

RoHS COMPLIANT