

GT800X480A-1013P

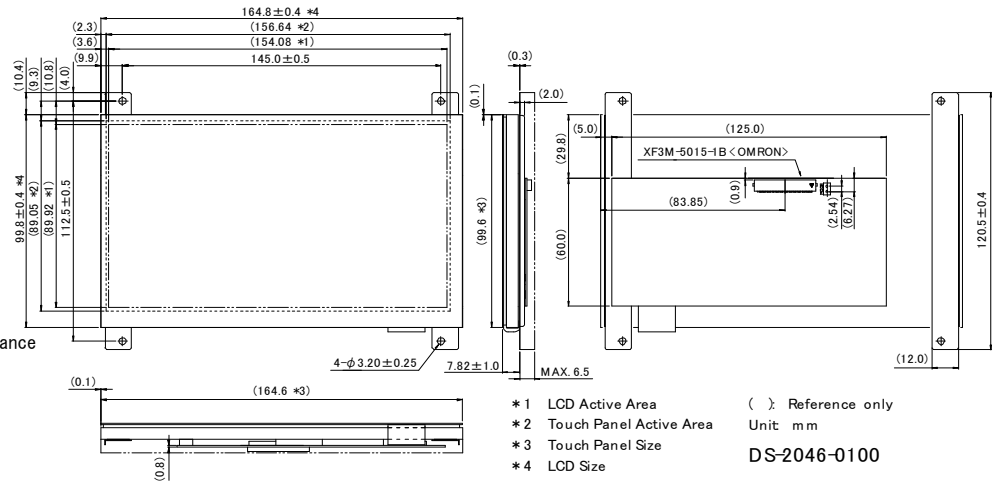
SIMPLIFIED DATASHEET

■ 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



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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)
FLETAS Touch Panel	Display Signal Interface	RGB Parallel (8bit x RGB / 6bit x RGB)
	Type	Metallized projective capacitive touch
	Touch Active Area	156.64 x 89.05 mm
	Number of Touches	Max. 10 points (Multi touch possible)
Control	Interface	I2C (HID compliant)
	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°C
Storage Temperature	-30 to +80°C
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	Pin No.	Terminal	I/O	Internal Processing	
1	VCC1 (5V)	Power	-	26	GND	Power	-	
2	VCC1 (5V)	Power		27	LCD_DATR2	Input	*1	
3	VCC1 (5V)	Power		28	LCD_DATR3	Input		
4	VCC2 (3.3V)	Power		29	LCD_DATR4	Input		
5	VCC2 (3.3V)	Power		30	LCD_DATR5	Input		
6	GND	Power		31	LCD_DATR6	Input		
7	GND	Power		32	LCD_DATR7	Input		
8	LCD_CLK	Input	*1	33	GND	Power	-	
9	LCD_HSYNC	Input	*2	34	/RESET	Input	*3	
10	LCD_VSYNC	Input		35	18BIT_ENABLE	Input		
11	LCD_ENABLE	Input	*1	36	NC	-	-	
12	GND	Power	-	37	BOOT	Input	*4	
13	LCD_DATAB2	Input	*1	38	GND	Power	-	
14	LCD_DATAB3	Input		39	I2C INT	Output	*5	
15	LCD_DATAB4	Input		40	I2C SDA	I/O	*3	
16	LCD_DATAB5	Input		41	I2C SCL	I/O		
17	LCD_DATAB6	Input		42	LCD_DATAB0	Input	※1	
18	LCD_DATAB7	Input		43	LCD_DATAB1	Input		
19	GND	Power	-	44	LCD_DATG0	Input		
20	LCD_DATG2	Input	*1	45	LCD_DATG1	Input		
21	LCD_DATG3	Input		46	LCD_DATR0	Input		*6
22	LCD_DATG4	Input		47	LCD_DATR1	Input		
23	LCD_DATG5	Input		48	NC	-	-	
24	LCD_DATG6	Input		49	PWM	Input		
25	LCD_DATG7	Input		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.



Leaflet contents, and specifications and external appearance of products, may change without notice.

Please confirm product details in the specification.

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