

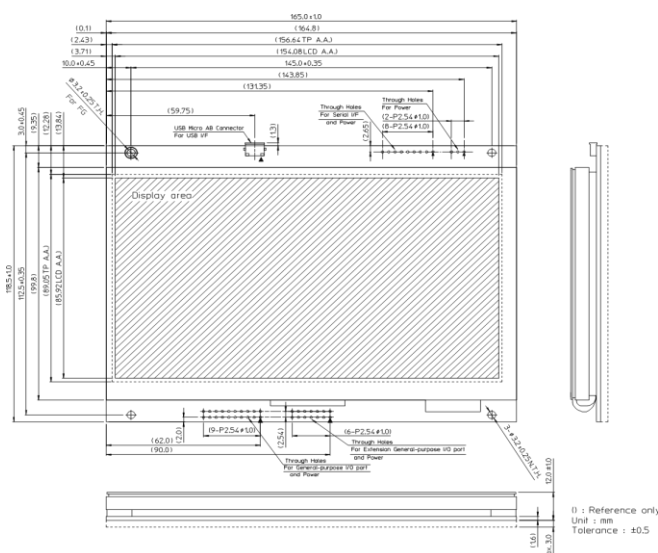
GT800X480A-C903PA

SIMPLIFIED DATASHEET

■ Features

- 7 inch TFT-LCD
 - LED backlight module
 - Wide-VGA: 800 x RGB x 480 pixels
 - High brightness (850cd/m2)
 - FLETAS capacitive touch panel
- [Features of FLETAS]
- High sensitivity
 - Excellent noise resistance

■ Physical Dimensions



Get full specification



Click here to go to request form.

Specifications

■ Basic Specification

Item		Content
Display	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	6.5k colors (16-bit color (RGB 5-5-5+1bit intensity))
	Viewing Direction	12 o'clock
	Gray Scale Inversion Direction	6 o'clock
	Brightness (100%)	Min. 500 cd/m2 (nit) Typ. 850 cd/m2 (nit)
FLETAS Touch Panel	Type	MPCT (Metallised Projective Capacitive Touch) multi-touch support
Other	Interface	Serial interface (UART / I2C / SPI CMOS 3.3V) USB interface (High-speed / Full-speed)
	Weight	Approximately 267g

■ Electrical Ratings

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

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

■ Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
UART	Logic output voltage TXD,DTR	VsOH1	2.8	-	-	VDC
	Logic output voltage VCH2	VsOH2	2.8	-	-	VDC
I2C I/F	voltage TRDY, SBusY	VsOL2	-	-	0.4	VDC
SPI	Internal pull-up resistance SDA, SCL	Rp	-	10	-	kΩ
SPI	Logic output voltage TXD,DTR,MISO	VsOH3	2.8	-	-	VDC
	Logic output voltage TXD,DTR,MISO	VsOL3	-	-	0.4	VDC
GPIO Port	Logic input current	IiIH	-	-	1.0	μADC
	Logic input current	IiIL	-	-	-200	μADC
	Logic input voltage	ViiH	2.4	-	-	VDC
	Logic input voltage	ViiL	-	-	0.8	VDC
Port 0,1,2,3	Logic output voltage	ViOH	2.8	-	-	VDC
	Logic output voltage	ViOL	-	-	0.4	VDC
	Output permissible current	IiOHp	-	-	-5	mADC
	Output permissible current	IiOLp	-	-	5	mADC
Power Supply Current 1	ICC1	-	720	940	mADC	(*1) 100% Brightness
	ICC2	-	460	600	mADC	(*1) 50% Brightness
Power Supply Current 2	ICC3	-	230	300	mADC	Display OFF
	-	-	3.60	4.70	W	(*1) 100% Brightness
Power Consumption	-	-	2.30	3.00	W	(*1) 50% Brightness
	-	-	2.30	3.00	W	(*1) Display power ON

(*1) Display power ON

■ Interface Details / Connectors

• Serial Interface (UART / I2C / SPI CMOS 3.3V) [CN9]

Pin No.	Signal	Function	Direction
1	/RESET	Reset	Input
2	SCK	Serial Clock	Input
3	RXD	SDA	Data Receive
4	DTR	SBusY	Display Busy
5	DSR	SSEL	Host Busy
6	TXD	MISO	Data Send
7	TRDY	Target Ready	Output
8	VCC	Power Supply (5V)	-
9	GND	Ground	-

• USB Interface [CN3]

Pin No.	Signal
1	VBUS
2	D-
3	D+
4	ID
5	GND

• Power Through-holes [CN8]

NOTE: Shorting JP1 enables power supply from VBUS.

Pin No.	Signal	Function
1	VCC	Power Supply (5V)
2	NC(*TEST)	No Connection
3	GND	Ground

*Factory test use only

• General Purpose I/O & Power Through-holes [CN10][CN11]

Please see the Hardware Specification for details.

■ Environmental Specifications

Parameter	Contents
Operating Temperature	-20 to +70°C
Storage Temperature	-30 to +80°C
Operating Humidity	Temp. ≤60 °C, 80% RH MAX.
(No condensation)	Temp. > 60 °C, Absolute humidity shall be less than 80% RH at 60 °C
Vibration	10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z
(non-operating)	
Shock	392m/s ² (40G) 9ms X-Y-Z, 3 times each direction
(non-operating)	

■ Selectable Font

Parameter	Contents
1-byte(dot)	6x8, 8x16, 12x24, 16x32, International font
2-byte(dot)	16x16 (Japanese/Korean/SimplifiedChinese/TraditionalChinese), 32x32(Japanese)
Outline Font	Source Han Sans

■ Functions

Character display, graphic display, control command, display action command, window function, touch panel input, general-purpose I/O port control, macro, program macro function, character and image download function, memory SW, data storage, etc.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Noritake:](#)

[GT800X480A-C903PA](#)