

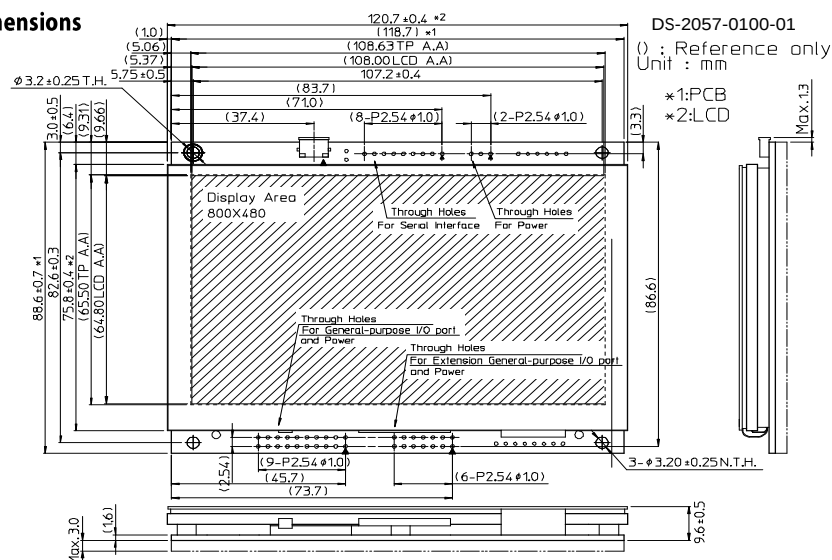
GTWV050C3A00PA

SIMPLIFIED DATASHEET

■ Features

- 5 inch TFT-LCD
 - LED backlight module
 - Wide-VGA: 800 x RGB x 480 pixels
 - High brightness (810cd/m²)
 - FLETAS capacitive touch panel
- [Features of FLETAS]
- High sensitivity
 - Excellent noise resistance

■ Physical Dimensions



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Specifications

■ Basic Specification

Item	Content
Display	Display Area
	108.0 x 64.8 mm (X x Y)
	Number of Pixels
	800 x RGB x 480
	Pixel Pitch
	0.135 x 0.135 mm (X x Y)
	Colors
FLETAS Touch Panel	6.5k colors (16-bit color (RGB 5-5-5+1bit intensity))
	Viewing Direction
	12 o'clock
	Gray Scale Inversion Direction
Other	6 o'clock
	Brightness (100%)
Interface	Min. 500 cd/m ² (nit) Typ. 810 cd/m ² (nit)
	Type
	MPCT (Metallised Projective Capacitive Touch) multi-touch support
Weight	Serial interface (UART / I2C / SPI CMOS 3.3V)
	USB interface (High-speed / Full-speed)
Approximately 120g	

■ 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 TRDY, SBDY	VsOL1	-	-	0.4	VDC
I2C I/F	Logic output voltage TRDY, SBDY	VsOH2	2.8	-	-	VDC
	Logic output voltage TRDY, SBDY	VsOL2	-	-	0.4	VDC
SPI	Internal pull-up resistance SDA, SCL	Rp	-	10	-	kΩ
	Logic output voltage TXD,DTR,MISO	VsOH3	2.8	-	-	VDC
GPIO Port	Logic output voltage TXD,DTR,MISO	VsOL3	-	-	0.4	VDC
	Logic input current	IiIH	-	-	1.0	μADC
Port 0,1,2,3	Logic input current	IiIL	-	-	-200	μADC
	Logic input voltage	ViiH	2.4	-	3.3	VDC
Output permissible current	Logic input voltage	ViiL	-	-	0.8	VDC
	Logic output voltage	ViOH	2.8	-	-	VDC
Power Supply Current 1	Logic output voltage	ViOL	-	-	0.4	VDC
	Output permissible current	IiOHp	-	-	-5	mADC
Power Supply Current 2	Output permissible current	IiOLp	-	-	5	mADC
	Output permissible current	IiOHT	-	-	-80	mADC
Power Supply Current 3	Output permissible current	IiOLt	-	-	80	mADC
	Output permissible current					(Sum of all port)
Power Consumption	Power Supply Current 1	ICC1	-	610	800	mADC
	Power Supply Current 2	ICC2	-	420	550	mADC
Power Consumption	Power Supply Current 3	ICC3	-	26	36	mADC
	Power Consumption		-	3.05	4.00	W
Power Consumption	Power Consumption		-	2.10	2.75	W
	Power Consumption		-	0.13	0.18	W

(*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	SBDY	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
Shock	392m/s ² (40G) 9ms X-Y-Z, 3 times each direction

■ 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.

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