

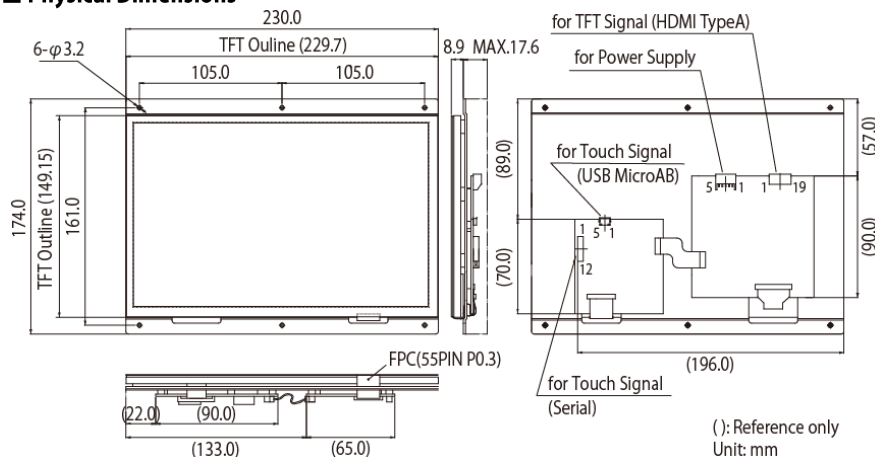
GTWX101VHB00P

SIMPLIFIED DATASHEET

■ Features

- 10.1 inch TFT-LCD
- Wide-VGA: 1280 x RGB x 800 dot
- Video input is DVI (HDMI connector)
- Touch I/F is USB (HID compliant)
- Can be used immediately by a host such as a PC or SBC
- Excellent touch performance (High sensitivity, Stable operation)
- High brightness (850cd/m<sup>2</sup>)

■ Physical Dimensions



Specifications

■ Basic Specification

Item	Type	Content
Display	Type	TFT-LCD
	Size	10.1 inches
	Display area	216.96 x 135.60 mm (X x Y)
	Number of pixels	1280 x RGB x 800
	Pixel pitch	0.1695 x 0.1695 mm (X x Y)
	Colors	16.7M (24-bit color)
	Recommend viewing direction	ALL
	Gray scale inversion direction	-
	Brightness (100%)	Typ. 850 cd/m <sup>2</sup> (nit)
	Display signal interface	DVI (HDMI connector Type A)
FLETAS touch panel	Type	Metallized projective capacitive touch
	Touch active area	218.16 x 137.36 mm
	Number of touches	Max. 10 points (multi-touch enable)
Control	Interface	UART, I <sup>2</sup> C, USB2.0 (full speed 12Mbps.)
	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	-

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

■ Electrical Characteristics

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
UART (*1) TXD	VOH1	2.7	-	-	VDC	IOH1 = -2.0mA
	VOL1	-	-	0.5	VDC	IOL1 = 1.5mA
	VOL2	0	-	0.5	VDC	IOL2 = 1.5mA
I <sup>2</sup> C (*1) / IRQ	VOL3	0	-	0.5	VDC	IOL3 = 1.5mA
	Pull-up resistor SDA, SCL	Rp	-	220	-	kΩ Pull-up Voltage 3.3V
Power supply	Power Supply Current	ICC-1	-	1.5	1.8	ADC (*2) (*3) Brightness 100%
		ICC-2	-	1.0	-	ADC (*2) (*3) Brightness 50%
		ICC-3	-	35	55	mADC (*3) (*4)
		ICC-4	-	20	40	mADC (*4) Power down mode
	Power Consumption	P-1	-	7.5	9.0	W (*2) (*3) Brightness 100%
		P-2	-	5.0	-	W (*2) (*3) Brightness 50%
		P-3	-	0.18	0.28	W (*3) (*4)
		P-4	-	0.10	0.20	W (*4) Power down mode

(\*1) Logic output voltage, (\*2) All white display, (\*3) Touch interface enabled (\*4) Display signal stop

■ Environmental Specifications

Parameter	Content
Operating Temperature	-20 to +60°C
Storage Temperature	-20 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/s <sup>2</sup> (40G) 9ms X-Y-Z, 3 times each direction

■ Interface / Connectors

• DVI (HDMI connector) / [MCB-038\_CN4]

Pin No.	Terminal	Content	Pin No.	Terminal	Content
1	TMDS Data2 +	Data lane	10	TMDS Clock +	Clock lane
2	TMDS Data2 Shield	Shield	11	TMDS Clock Shield	Shield
3	TMDS Data2 -	Data lane	12	TMDS Clock -	Clock lane
4	TMDS Data1 +	Data lane	13	CEC	+5V
5	TMDS Data1 Shield	Shield	14	NC	No connection
6	TMDS Data1 -	Data lane	15	SCL	DDC clock
7	TMDS Data0 +	Data lane	16	SDA	DDC data
8	TMDS Data0 Shield	Shield	17	DDC / CEC Ground	Ground
9	TMDS Data0 -	Data lane	18	+5V Power	+5V
			19	Hot Plug Detect	+5V

• UART, I<sup>2</sup>C (HID compliance) / [MCB-041\_CN1]

Pin No.	Terminal	Content	Pin No.	Terminal	Content
1, 3, 4	IC	Internal connection	7	SCL	I <sup>2</sup> C clock
2	GPIO (input only)	For power saving mode wakeup	8	/RESET	Reset input
5	SDA	I <sup>2</sup> C data	9	NC	No connection
6	/IRQ	Interrupt output (I <sup>2</sup> C data available)	10	GND	Ground
			11	TXD	UART send
			12	RXD	UART receive

• USB (HID compliance) / [MCB-041\_CN3]

Pin No.	Terminal	Content
1	VBUS	VBUS
2	D-	Data -
3	D+	Data +
4	ID	No connection
5	GND	Ground

• Power connector / [MCB-038\_CN2]

Pin No.	Terminal	Content
1, 3	VCC	+5V
2, 4	GND	Ground
5	NC	No connection

■ Functions

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

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