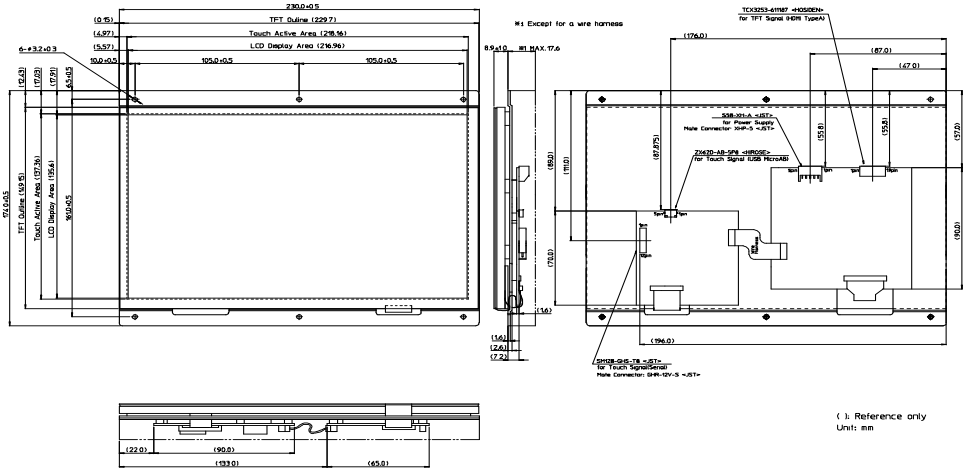
GTWX101VHA00P

SIMPLIFIED DATASHEET

■ Features

- 10.1 inch TFT-LCD
- Wide-VGA: 1280 x RGB x 800 dot
- High Brightness (850cd/m^2)
- Video input is DVI (HDMI connector)
- Touch I/F is USB (HID compliant)
- Quick Setup
  (Just connect to a PC or SBC host)
- FLETAS touch panel mounted
  [Features of FLETAS]
  - High sensitivity
  - Excellent noise resistance

■ Physical Dimensions



( ): Reference only
Unit: mm

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Specifications

■ Basic Specification

Item		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^2 (nit)
	Display Signal Interface	DVI (HDMI connector)
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 possible)
	Interface	UART, I2C, USB2.0
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
TMDS clock frequency=65MHz, refresh rate=60Hz

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
UART	(*1)TXD	VOH1	2.7	-	-	VDC	IOH1 = -4.0mA
		VOL1	-	-	0.5	VDC	IOL1 = 8.0mA
I2C	(*1)SCL, SDA	VOL2	0	-	0.5	VDC	IOL2 = 8.0mA
	(*1)/IRQ	VOH3	2.7	-	-	VDC	IOH3 = -4.0mA
		VOL3	0	-	0.4	VDC	IOL3 = 8.0mA
	Pull-up resistor SDA, SCL	Rp	-	220	-	kΩ	Pull-up Voltage 3.3V
Power Supply Current		ICC1	-	1.5	1.8	ADC	(*2)Brightness 100%
		ICC2	-	1.0	-	ADC	(*2)Brightness 50%
		ICC3	-	55	70	mADC	Energy saving mode
Power Consumption		P-1	-	7.5	9.0	W	(*2)Brightness 100%
		P-2	-	5.0	-	W	(*2)Brightness 50%
		P-3	-	0.3	0.4	W	Energy saving mode

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

■ Environmental Specifications

Parameter	Content
Operating Temperature	-20 to +60℃
Storage Temperature	-20 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/s^2 (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 +	-	10	TMDS Clock +	-
2	TMDS Data2 Shield	Ground	11	TMDS Clock Shield	Ground
3	TMDS Data2 -	-	12	TMDS Clock -	-
4	TMDS Data1 +	-	13	CEC	+5V
5	TMDS Data1 Shield	Ground	14	NC	No connection
			15	SCL	DDC Clock
6	TMDS Data1 -	-	16	SDA	DDC Data
7	TMDS Data0 +	-	17	DDC/ CEC Ground	Ground
8	TMDS Data0 Shield	Ground	18	VCC	+5V
9	TMDS Data0 -	-	19	Hot Plug Detect	+5V

・UART,I2C (HID compliant) ／ [MCB-039_CN1]

Pin No.	Terminal	Content	Pin No.	Terminal	Content
1～4	IC	Internal Connection	8	/RESET	Reset input
5	SDA	I2C data	9	NC	No Connection
6	/IRQ	Interrupt output (I2C data available)	10	GND	Ground
			11	TXD	UART send
7	SCL	I2C clock	12	RXD	UART receive

・USB (HID compliance, Full speed 12Mbps.) ／ [MCB-039_CN3]

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

・(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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