GTWV070VHA00P

SIMPLIFIED DATASHEET

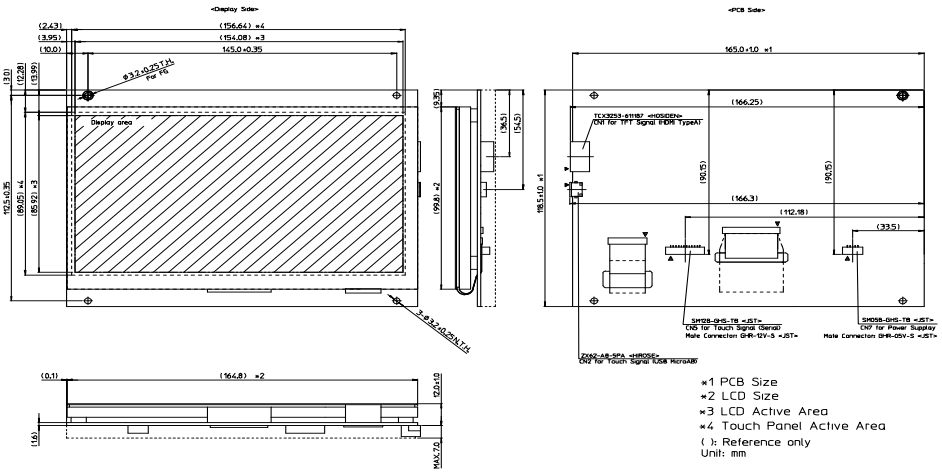
■ Features

- 7 inch TFT-LCD
- Wide-VGA: 800 x RGB x 400 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
- Power saving mode

Get full specification

Click here to go to request form.

■ Physical Dimensions



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/m^2 (nit)
	Display Signal Interface	DVI (HDMI connector)
FLETAS Touch Panel	Type	Metallized projective capacitive touch
	Touch Active Area	156.64 x 89.05 mm
	Number of Touches	Max. 10 points (multi touch possible)
	Interface	UART, I2C, USB
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

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
UART	(*1)TXD	VOH1	2.7	-	-	VDC	IOH1 = -2.0mA
		VOL1	-	-	0.5	VDC	IOL1 = 1.5mA
I2C	(*1)SCL, SDA	VOL2	0	-	0.5	VDC	-
	(*1)/IRQ	VOL3	0	-	0.5	VDC	-
	Pull-up resistor SDA, SCL	Rp	-	10	-	kΩ	Pull-up Voltage 3.3V
Power Supply Current		ICC1	-	640	830	mADC	(*1)Brightness 100%
		ICC2	-	380	500	mADC	(*2)Brightness 50%
		ICC3	-	50	70	mADC	(*3)Brightness 0%
		ICC4	-	20	30	mADC	(*3)Power down mode
Power Consumption		P1	-	3.2	4.2	W	(*1)Brightness 100%
		P2	-	1.9	-	W	(*2)Brightness 50%
		P3	-	0.3	0.4	W	(*3)Brightness 0%
		P4	-	0.1	0.2	W	(*3)Power down mode

(*1)All black display (*2)All white display (*3)DVI suspend mode

■ Environmental Specifications

Parameter	Content
Operating Temperature	-20 ~ +70℃
Storage Temperature	-30 ~ +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) ／ [CN1] Display

Pin No.	Terminal	Pin No.	Terminal	Content
1	TMDS Data2 +	10	TMDS Clock +	-
2	TMDS Data2 Shield	11	TMDS Clock Shield	-
3	TMDS Data2 -	12	TMDS Clock -	-
4	TMDS Data1 +	13	NC	Not used
5	TMDS Data1 Shield	14	NC	Not used
6	TMDS Data1 -	15	SCL	DDC Clock
7	TMDS Data0 +	16	SDA	DDC Data
8	TMDS Data0 Shield	17	DDC/ CEC Ground	Ground
9	TMDS Data0 -	18	VCC	DDC Power
*Pin1~9 has no contacts.		19	Hot Plug Detect	-

・UART,I2C (HID compliant) ／ [CN5] Touch Panel

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

・USB (HID compliance, Full speed 12Mbps.) ／ [CN2] Touch Panel

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

・(Power Connector) [CN7]

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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Please confirm details in the respective product specification.
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