

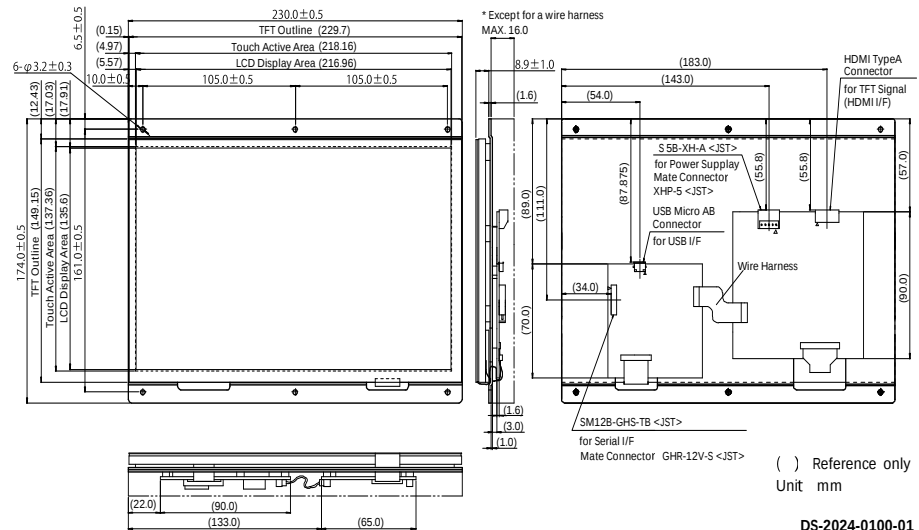
GT1280X800A-1303P

SIMPLIFIED DATASHEET

■ Features

- 10.1 inch TFT-LCD
- 1280 x RGB x 800 dot
- High Brightness (850cd/m²)
- 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



DS-2024-0100-01

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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)
FLETAS	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)
Touch Panel	Type
	Metallized projective capacitive touch
	Touch Active Area
	218.16 x 137.36 mm
Control	Number of Touches
	Max. 10 points (multi touch possible)
	Interface
	UART, I2C, USB2.0
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	2.8	-	-	VDC	IOH1 = -4.0mA
	VOL1	-	-	0.4	VDC	IOL1 = 8.0mA
I2C (*1)/IRQ	VOH2	2.8	-	-	VDC	IOH2 = -4.0mA
	VOL2	0	-	0.4	VDC	IOL2 = 8.0mA
Pull-up resistor SDA, SCL		Rp	-	220	kΩ	Pull-up Voltage 3.3V
Power Supply Current 1	ICC1	-	1.5	1.8	ADC	(*2)Brightness 100%
Power Supply Current 2	ICC2	-	1.0	1.2	ADC	(*2)Brightness 50%
Power Supply Current 3	ICC3	-	55	70	mADC	No connection
Power Consumption	-	-	7.5	9.0	W	(*2)Brightness 100%
	-	-	5.0	6.0	W	(*2)Brightness 50%

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

■ 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 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	-	11	TMDS	-
3	Shield	-	12	Clock Shield	-
4	TMDS Data2 -	-	13	TMDS Clock -	-
5	TMDS Data1 +	-	14	NC	Not used
6	TMDS Data1	-	15	NC	Not used
7	Shield	-	16	SCL	DDC Clock
8	TMDS Data1 -	-	17	SDA	DDC Data
9	TMDS Data0 +	-	18	DDC/ CEC	Ground
	Shield	-	19	Ground	Ground
	TMDS Data0 -	-		VCC	DDC Power
				Hot Plug	-
				Detect	-

• 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
7	SCL	I2C clock	11	TXD	UART send
			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	NC
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.