Noritake itron

GTWX101VLB00P

SIMPLIFIED DATASHEET

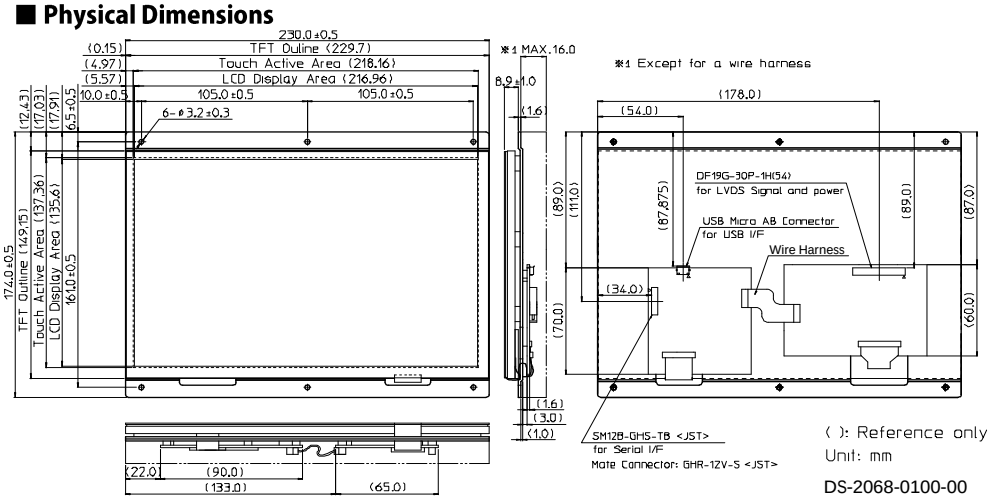
■ Features

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

Get full specification

Click here to go to request form.

■ Physical Dimensions



DS-2068-0100-00

Specifications

■ Basic Specification

Item		Content
Display	Type	TFT-LCD
	Size	10.1 inches
	Display Area	216.96 x 135.6 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) (*1)
	Display Signal Interface	LVDS
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.

(*1) Backlight brightness 100%

■ Electrical Ratings

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
Power Supply Voltage	VCC1	3.14	3.3	3.47	VDC	See specification
Backlight Power Supply	VCC2	11.4	12.0	12.6	VDC	

■ Electrical Characteristics

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

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condision
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	-	0.5	VDC	IOL3 = 8.0mA
	(*2) SDA, SCL	Rp	-	220	-	kΩ	Pull-up Voltage 3.3V
BLEN	(*2)	Rp	-	10	-	kΩ	
PDIM	(*2)	Rp	-	10	-	kΩ	
Power Supply	Current for LCD	ICC1	-	390	530	mADC	All White, (*3) 100%
	Current for Backlight	ICC2-1	-	430	550	mADC	(*3) 100%
		ICC2-2	-	320	420	mADC	(*3) 50%
		ICC2-3	-	5	10	mADC	Backlight OFF BLEN="L"
	Power Consumption	P1	-	1.3	1.7	W	All White, (*3) 100%
		P2	-	5.2	6.6	W	(*3) 100%

(*1) Logic Output Voltage, (*2) Internal Pull-up Resistor, (*3) Backlight brightness

■ 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/s2 (40G) 9ms X-Y-Z, 3 times each direction

■ Interface／Connectors

Pin 5～8, 13, 14, 17, 20, 23, 26, 30 = GND

・LVDS ／ MCB-040 [CN1]

Pin	Symbol	Content	Pin	Symbol	Content
1~4	VCC2	+12.0V Power Supply	15	Link 0-	R0, R1, R2, R3,
			16	Link 0+	R4, R5, G0
9	BLEN	Backlight ON/OFF (High:ON, Low:OFF)	18	Link 1-	G1, G2, G3,
			19	Link 1+	G4, G5, B0, B1
			21	Link 2-	B2, B3, B4,
10	PDIM	Backlight Dimming Control (PWM) Voltage (High active)	22	Link 2+	B5, DENA
			24	CLKIN-	Clock -
			25	CLKIN+	Clock +
			27	Link 3-	R6, R7, G6,
			28	Link 3+	G7, B6, B7
11~12	VCC1	+3.3V Power Supply	29	NC	No Commection

・UART, I2C： ／ MCB-039 [CN1]

Pin	Symbol	Content	Pin	Symbol	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 ／ MCB-039 [CN3]

Pin	Symbol	Content	Pin	Symbol	Content
1	VBUS	VBUS	4	ID	NC
2	D-	Data -	5	GND	Ground
3	D+	Data +			

*Power supply VCC cannot be supplied from VBUS.
Please use the power connector (MCB-040-CN1).

■ Functions

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

RoHS COMPLIANT

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