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June 2020   # 5" Smart Display_CAN Series TFT WL0F00050000FGAAASA00

WL0F00050000FGAAASA00 is a 5" Smart Display_CAN series TFT which is defined as a slave device, that is controlled by master device via CAN bus command to render display content on the display screen and return touch event data with protocol objects. WL0F00050000FGAAASA00 is integrated with an standard TFT module WF50FTYAGDNG0 and a 4-layers FR4 PCBA with built-in firmware. This 5" Smart Display _CAN series TFT is an easy-to-use product which allows you to develop projects rapidly in cost-effective way. Below are the features of WL0F00050000FGAAASA00. Our Smart Display can be used on multiple host (HOST) platforms. such as Computer (with USB2CAN Dongle) , MCU, Raspberry Pi (with PiCAN2). WL0F00050000FGAAASA00 modules will be available in early July, as to the demo sets will be available in late July, more details please contact us.

Features of 5" Smart Display_CAN Series TFT:
►DC 5V working voltage, low power consumption for USB to drive.
►Power-On Self-Test & Splash screen.
►CAN bus Interface.
►Supports CANopen protocol, default baud rate at 250KB.
►Built in flash memory, store the font and Object Dictionary Data.
►Supports PCAP touch screen.
►CanTFT Smart Display is defined as a slave device, which is controlled by master device via CAN bus command to render display content on the display screen and return touch event data with protocol objects.
►Demo set HOST can be used on multiple platforms, such as Computer (with USB to CAN Dongle), MCU, Raspberry Pi (with PiCAN2).
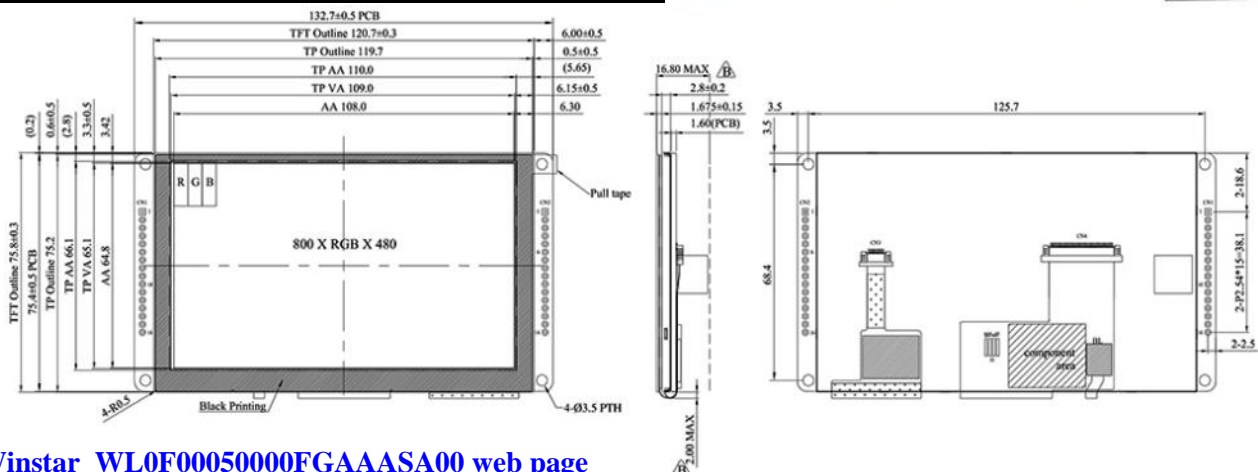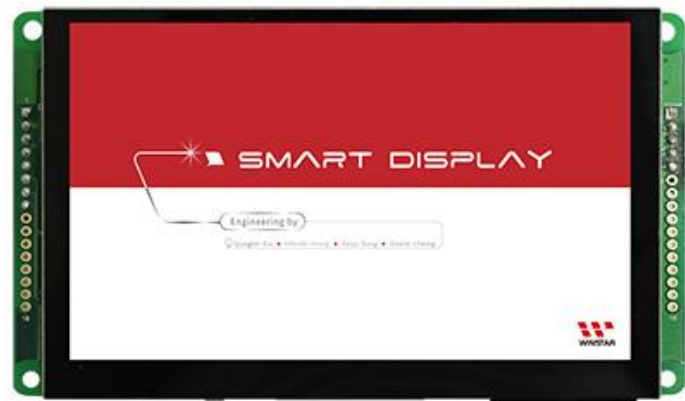►Built-in Buzzer is controlled from master device.

Mechanical Data

Item	Standard Value	Unit
LCD panel	120.7(W)×75.8(H)×4.475	mm
PCB	132.7(W)×75.8(H)×1.6	mm
Housing outline	NA	mm

General information

Item	Standard Value	Unit
Operating voltage	5	Vdc
Communication Interface	CAN bus differential ± 3.3	Vpp
LCD display size	5	inch
Dot Matrix	800× 3(RGB)×480	dot
Module dimension	120.7(W)×75.8(H)×4.475	mm
Active area	108(W)×64.8 (H)	mm
Dot pitch	0.135(W)×0.135(H)	mm
LCD type	TFT, Normally Black, Transmissive	
View Direction	80/80/80/80	
Aspect Ratio	16:9	
Touch Screen	With CTP	
Surface	Glare	

We have three demo scenario as below. More details, please check website.

WL0F00050000FGAAASB00 (Industrial Application)
WL0F00050000FGAAASC00 (Vehicle Application)
WL0F00050000FGAAASD00 (Medical Application)

► **Link to Winstar WL0F00050000FGAAASA00 web page**
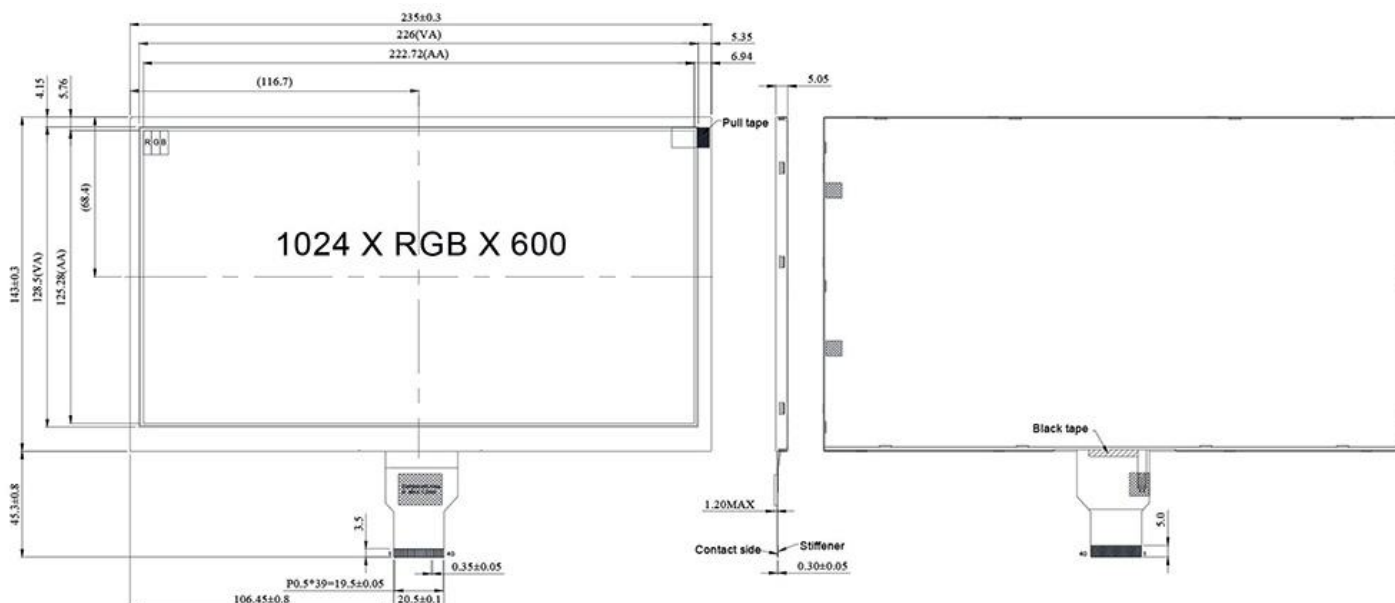
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10.1" LVDS IPS TFT WF101JTYAHLNN0

WF101JTYAHLNN0 is a landscape mode 10.1 inch IPS TFT LCD module, it featured with resolution 1024x600 pixels. WF101JTYAHLNN0 is built in with EK79001HN and EK73215BCGA driver ICs, it supports LVDS interface, contrast ratio 800 (typical value), brightness 500 nits (typical value), aspect ratio 16:9, anti-glare surface glass, normally black, transmissive LCD type. This 10.1" IPS TFT has a wider viewing angle than TN TFT, it's view angle is Left:85 / Right:85 / Up:85 / Down:85 degree (typical value).

The supply voltage (VDD) of WF101JTYAHLNN0 is from 3.0V to 3.6V, typical value 3.3V. It can be operating at temperatures from -20℃ to +70℃ and storage temperatures from -30℃ to +80℃. If customers require high brightness, please choose WF101JSYAHLNN0.

WF101JTYAHLNN0	Dimension
Size	10.1 inch
Dot Matrix	1024 RGB × 600
Module dimension	235(W) ×143(H) × 5.05(D) mm
Active area	222.72 (H) × 125.28(V) mm
Dot pitch	0.2175(W) × 0.2088(H) mm
LCD type	TFT, Normally Black, Transmissive
Interface	LVDS
Driver IC	EK79001HN + EK73215BCGA or equivalent
Viewing Angle	85/85/85/85
Aspect Ratio	16:9
Backlight Type	LED, Normally White
Touch Panel	RTP option, CTP under development
Surface	Anti-Glare

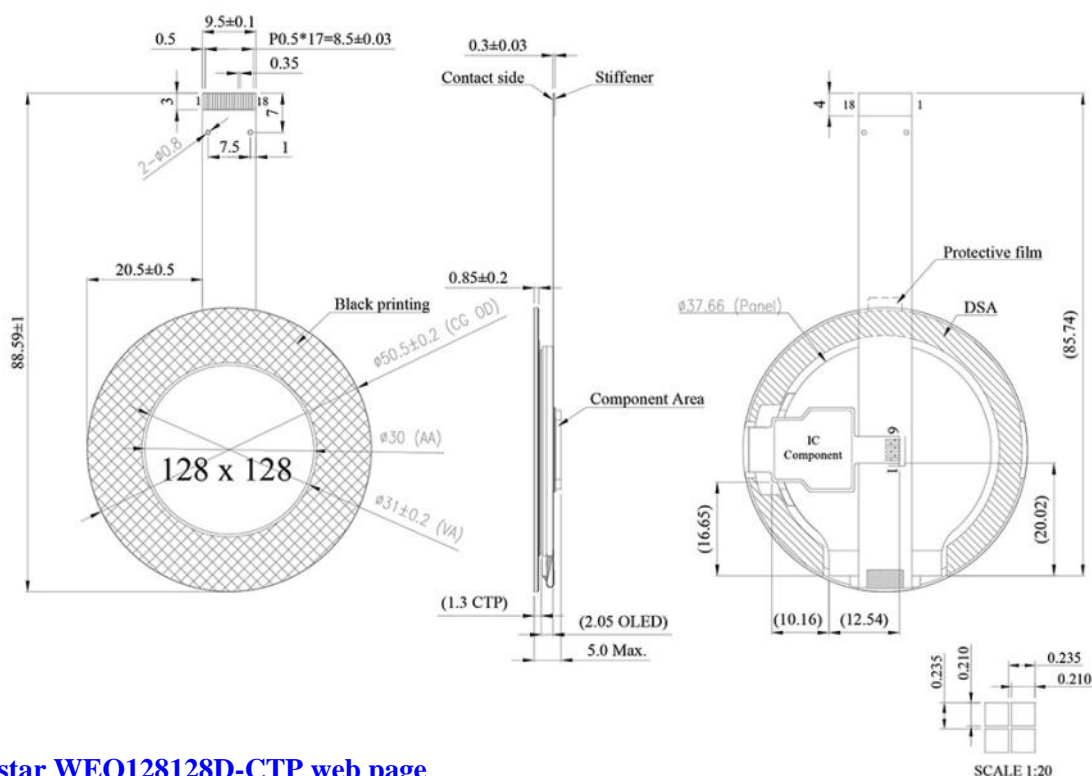► **Link to Winstar WF101JTYAHLNN0 web page**

Ø1.18" Circular OLED with PCAP Touch Screen WEO128128D-CTP

WEO128128D-CTP is an Ø1.18" circular graphic OLED display; with capacitive touch screen on module; made of resolution 128x128 dots. This module is built in with SSD1327 IC, it supports 4-line SPI and I2C interface, supply voltage for logic 3V (typical value), 1/128 driving duty. This WEO128128D-CTP model is built in with IT7259 touch panel IC on module, which supports I2C interface, one detect point for capacitive touch screen.

This round OLED WEO128128D with CTP model is ideal for smart home applications, intelligent technology devices, energy systems, communication systems, medical instrument, etc. This module can be operating at temperatures from -20℃ to +50℃; its storage temperatures range from -30℃ to +70℃.

WEO128128D+CTP	Dimension
Dot Matrix	128 × 128 Dots
Module dimension	Ø 50.5 × 5.0 mm
Active Area	Ø 30.0 mm
Pixel Size	0.210 × 0.210 mm
Pixel Pitch	0.235 × 0.235 mm
Display Mode	PMOLED Passive Matrix
Display Color	Monochrome (White/Yellow/Sky Blue)
Drive Duty	1/128 Duty
Gray Scale	4 bits
IC	SSD1327
Interface	4-line SPI , I2C
Size	1.18 inch
CTP IC	IT7259
Detect Point	1
CTP Interface	I2C
CTP Surface Hardness	6H

► **Link to Winstar WEO128128D-CTP web page**

0.96" Dual Color OLED WEA012864MX with PCB

WEA012864MX is a COG 0.96" Dual Color OLED with PCB board on module. The module is built in with SSD1306 IC; it supports I2C interface, 1/64 driving duty, supply voltage for Logic 5V, optional 3.3V, with conversion circuit. WEA012864MX model is having PCB outline size 27.3 × 27.3 mm with mounting holes on board and 4x1 metal pins on module. The standard color is yellow/sky blue only, without any other color options.

WEA012864MX OLED module is suitable for smart home application, medical device, smart control, meter, etc. This module can be operating at temperatures from -40℃ to +80℃; its storage temperatures range from -40℃ to +85℃.

WEA012864MX	Dimension
Dot Matrix	128 × 64 Dots
Module dimension	27.3 × 27.3 × 2.72 mm
Active Area	21.744 × 11.204 mm
Pixel Size	0.148 × 0.148 mm
Pixel Pitch	0.17 × 0.17 mm
Display Mode	Passive Matrix OLED
Display Color	Dual Color: Yellow / Sky Blue
Drive Duty	1/64 Duty
IC	SSD1306
Interface	I2C
Size	0.96 inch