

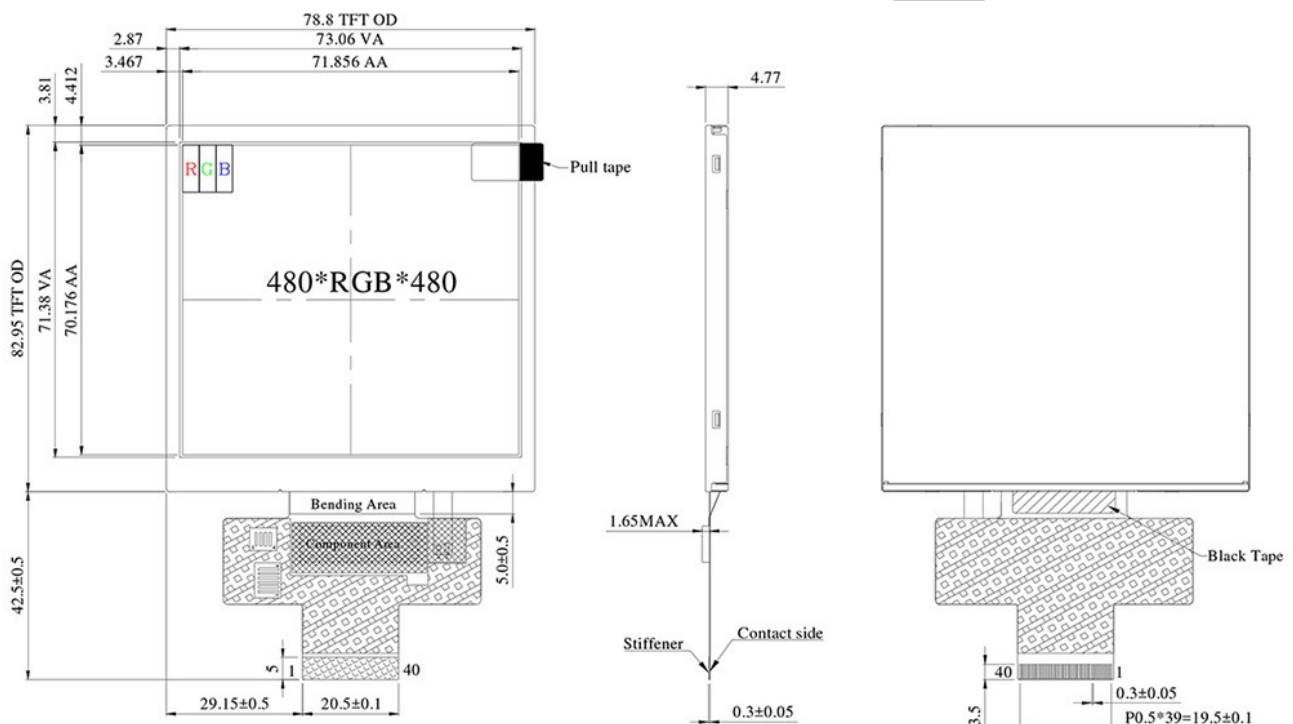
Sept. 2021

4" High Brightness RGB IPS TFT WF40ESWAA6DNN0

WF40ESWAA6DNN0 is a High Brightness 4 inch Square IPS TFT-LCD module; made of resolution 480 x 480 pixels. This module supports 24-bit RGB interface, it featured with IPS panel which is having the advantage of wider viewing angle of Left:80 / Right:80 / Up:80 / Down:80 degree (typical), contrast ratio 800:1 (typical value), high brightness 1000 nits (typical value), glare surface panel, aspect Ratio 1:1. If customers don't require high brightness, you can consider our WF40ETWAA6DNN0 (500 nits). This model is also available in projected capacitive touch panel (PCAP) module part no. WF40ESWAA6DNG0 and resistive touch panel option of WF40ESWAA6DNT0.

WF40ESWAA6DNN0 is integrated driver IC ST7701S on module, the interface supply voltage range from 2.5V to 3.6V, typical value 2.8V. WF40E model can be operated at temperatures from -30°C to +80°C; its storage temperatures range from -30°C to +80°C.

WF40ESWAA6DNN0	Dimension
Size	4 inch
Dot Matrix	480 × 3(RGB) × 480 pixel
Module dimension	78.8(H) × 82.95 (W) × 4.77 mm
Active area	71.856(H) × 70.176 (V) mm
Pixel pitch	0.1497(H) × 0.1462(V) mm
LCD type	TFT, Normally Black, Transmissive
View Direction	80/80/80/80
Aspect Ratio	1:1
Interface	24-bit RGB
Driver IC	ST7701S or Equivalent
Backlight Type	LED, Normally White
Touch Panel	Without /PCAP /RTP Options
Surface	Glare



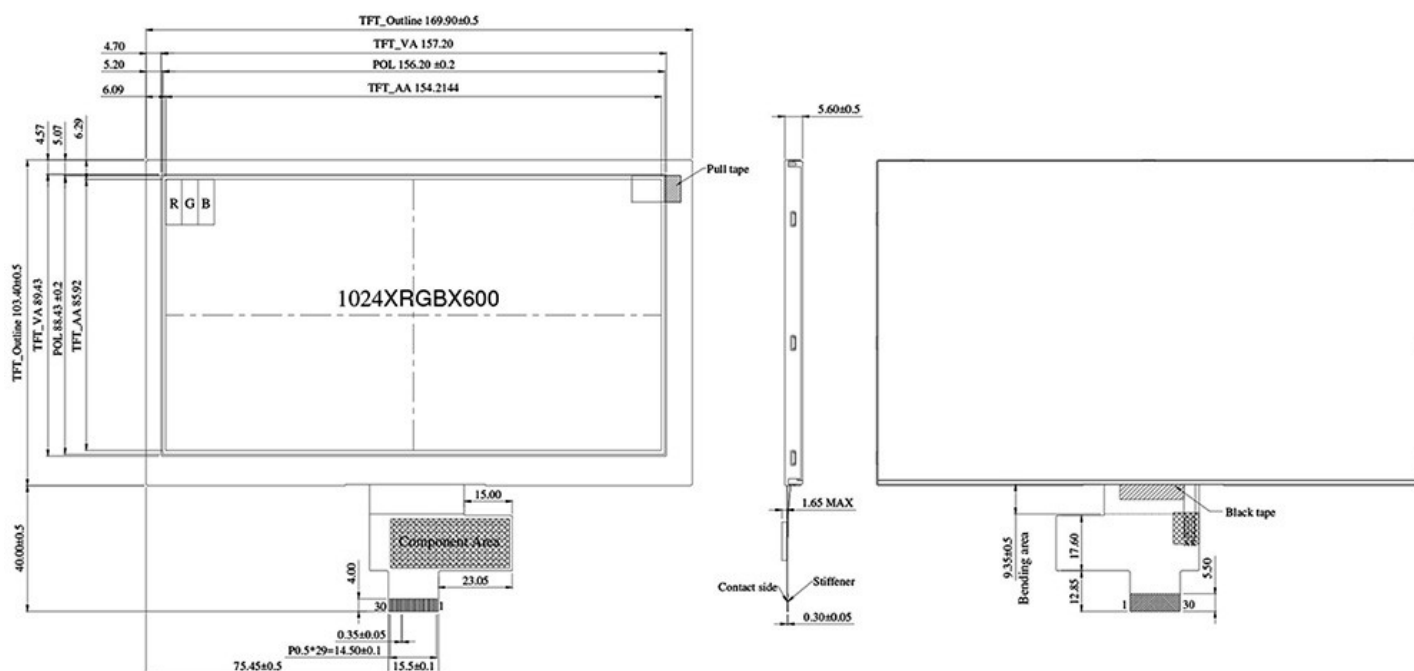
► [Link to WF40ESWAA6DNN0 web page](#)

7" MIPI High Brightness IPS TFT WF70A8SYAHMNN0

WF70A8SYAHMNN0 is a 7 inch MIPI DSI interface High Brightness 1024 x 600 IPS TFT-LCD module. This TFT-LCD is featured with IPS technology which is having the advantages of wider viewing angle of Left:85 / Right:85 / Up:85 / Down:85 degree (typical) and high brightness of 1100 nits (typical value). If customers don't require high brightness, you can choose our WF70A8TYAHMNN0 (600 nits). This WF70A8 model is available in projected capacitive touch panel (PCAP) module number WF70A8SYAHMNGB and resistive touch screen option WF70A8SYAHMNT0.

WF70A8SYAHMNN0 module is built-in with EK7900AD3 and EK7321BCG driver IC; it supports 4-Lanes MIPI interface (Mobile Industry Processor Interface) DSI (Display Serial Interface). The MIPI DSI interface becomes more popular because of the characteristics of High Speed Data Transmission and High Speed Clock Transmission. This TFT display module featured with anti-glare surface panel; aspect ratio 16:9, it can be operated at temperatures from -20°C to +70°C; its storage temperatures range from -30°C to +80°C.

WF70A8SYAHMNN0	Dimension
Size	7 inch
Dot Matrix	1024 × RGB × 600(TFT) pixel
Module dimension	169.9(W) × 103.4(H) × 5.6(D) mm
Active area	154.2144 × 85.92 mm
Pixel pitch	0.1506 × 0.1432 mm
LCD type	TFT, Normally Black, Transmissive
Viewing Angle	85/85/85/85
Aspect Ratio	16:9
Driver IC	EK79007AD3 + EK73217BCG
Interface	4-Lanes MIPI DSI
Backlight Type	LED, Normally White
Touch Panel	Without /PCAP /RTP options
Surface	Anti-Glare

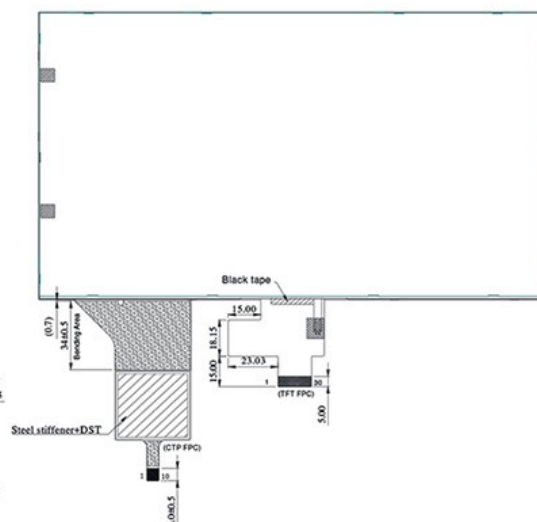
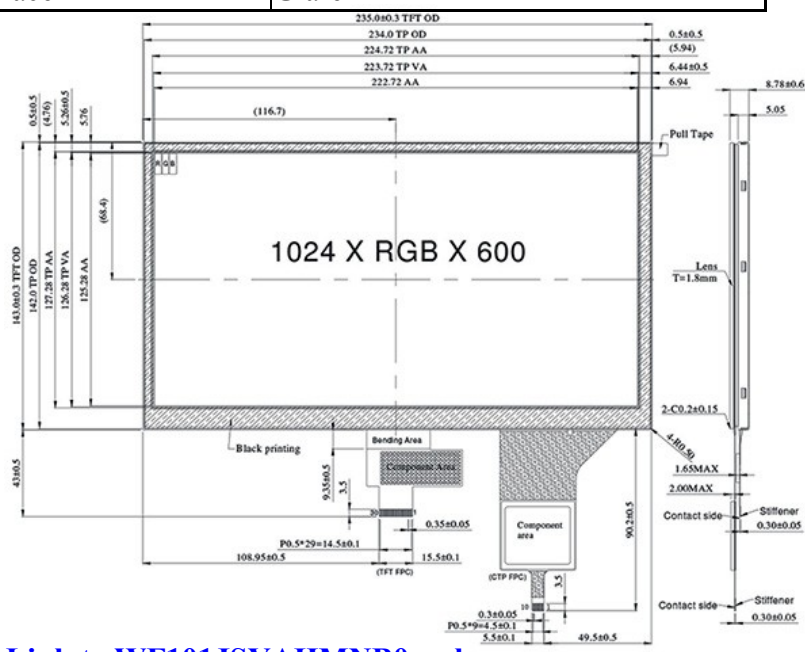


10.1" MIPI IPS TFT WF101JSYAHMNB0 with Capacitive Touch

WF101JSYAHMNB0 is a 10.1 inch MIPI DSI interface High Brightness 1024 x 600 IPS TFT-LCD module with projected capacitive touch panel (PCAP). This TFT module is featured with IPS technology which is having the advantages of wider viewing angle of Left:85 / Right:85 / Up:85 / Down:85 degree (typical) and high brightness of 900 nits (typical value). If customers don't require high brightness, you can choose our WF101JTYAHMNB0. This WF101J MIPI model is also available in resistive touch screen options of WF101JTYAHMNT0 and WF101JSYAHMNT0 (high brightness).

WF101JSYAHMNB0 module is built-in with EK79007AD3 and EK73217BCGA driver ICs; it supports 4-Lanes MIPI (Mobile Industry Processor Interface) DSI (Display Serial Interface), as to the capacitive touch panel is built-in with ILI2511 IC which supports USB and I2C interface. The MIPI DSI interface becomes more popular because of the characteristics of High Speed Data Transmission and High Speed Clock Transmission. This TFT display module featured with glare surface panel; aspect ratio 16:9, it can be operated at temperatures from -20°C to +70°C; its storage temperatures range from -30°C to +80°C.

WF101JSYAHMNB0	Dimension
Size	10.1 inch
Dot Matrix	1024 RGB × 600 pixel
Module dimension	235(W) × 143(H) × 8.78(D) mm
Active area	222.72 (H) × 125.28(V) mm
Pixel pitch	0.2175(W) × 0.2088(H) mm
LCD type	TFT, Normally Black, Transmissive
TFT Interface	4-Lanes MIPI
Driver IC	EK79007AD3 + EK73217BCGA
Viewing Angle	85/85/85/85
Aspect Ratio	16:9
Backlight Type	LED, Normally White
PCAP IC	ILI2511 or equivalent
PCAP Interface	USB (I2C available)
PCAP FW Version:	V6.0.0.0.62.90.1.2
Touch Panel	Without /PCAP /RTP Options
Surface	Glare

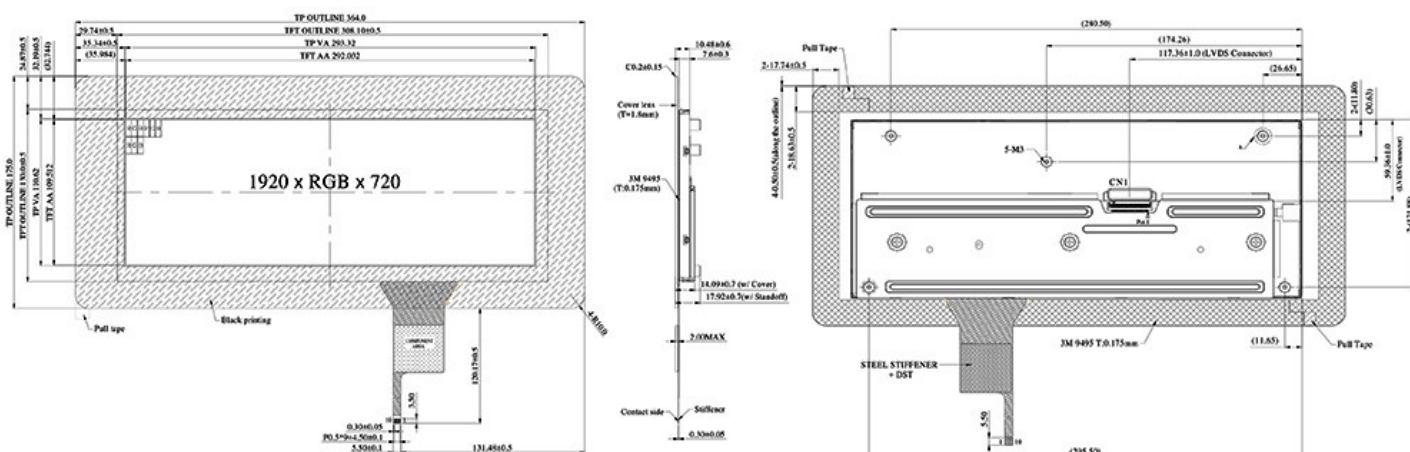


12.3" LVDS IPS TFT WF123BSWAYLNB0 with PCAP Touch

WF123BSWAYLNB0 is a 12.3 inch LVDS High Brightness 1920 x 720 IPS TFT-LCD module with projected capacitive touch panel (PCAP). This module supports 2-ch LVDS(Low-Voltage-Differential-Signaling)interface which becomes more popular for larger size of TFT LCD display. The LVDS interface is a great solution because of its high speed of data transmission while using low voltage and improved noise performance. The LVDS interface has several benefits for TFT displays. It is much less susceptible to EMI and crosstalk issues, and peripherals in need of high bandwidth, like high-definition graphics and fast frame rates, allowing the transmitting device to be located farther from the display. As to the capacitive touch panel of this module is built-in with ILI2511 IC which can communicate via USB or I2C interface, supports 10 detect points.

WF123BSWAYLNB0 is adopted IPS panel which is having the advantage of wider view angle of Left:85 / Right:85 / Up:85 / Down:85 degree (typical value), contrast ratio 1100:1 (typical value), brightness 650 nits (typical value), glare surface panel. The supply voltage (VCC) of WF123BSWAYLNB0 is from 3V to 3.6V, typical value 3.3V. It can be operated at wide temperatures from -30°C to +85°C and storage temperatures from -40°C to +85°C. If customers require wider storage temperatures up to -40°C to +90°C, you can choose our WF123BSWAYLNBA. Please note, the thickness of these two modules is a little different, WF123BSWAYLNB0 is 10.48mm, as to the WF123BSWAYLNBA is 10.7mm.

WF123BSWAYLNB0	Dimension
Size	12.3 inch
Pixel Number	1920 RGB (H) × 720(V) pixel
Module dimension	364.0(H) × 175.0 (V) × 10.48 mm
Active Area	292.032(H) × 109.512(V) mm
Pixel Pitch	0.1521(H) × 0.1521 (V) mm
LCD type	TFT, Normally Black, Transmissive
Viewing Angle	85/85/85/85
Backlight Type	LED, Normally White
TFT Interface	2ch-LVDS
PCAP IC	ILI2511 or equivalent
PCAP Interface	USB (I2C available)
PCAP FW Version	V6.0.0.0.0.0.3
Touch Panel	Without /PCAP Options
Surface	Glare



Cover Lens Thickness Options for Winstar 7" TFT Displays

For industrial applications, thick cover lenses provide extra protection for TFT Displays. Putting hardened cover lens on the TFT module can protect it from mechanical damages. Winstar provides three kinds of thickness options for our 7 inch TFT-LCD modules which are including 0.7mm, 1.8mm and 3.0mm in thickness.

Below is a comparison chart for reference, the higher IK code which means for better impact protection. The IK Code, or impact rating, is an international numeric classification for the degrees of protection provided by enclosures for electrical equipment against external mechanical impacts. We recommend customers can choose proper thickness of cover lens for your applications. Winstar also can offer custom solutions for customers needing thick cover lens. Please note, the thickness of cover lens will affect the touch sensitivity; the thinner cover lens usually the touch sensitivity will be better than thicker ones.

Remark: Below information is reference only, welcome to contact our engineering team for different sizes of cover lens for applications.

TP Part No.	Winstar 7" cover lens	Impact protection	Touch Points	Waterproof	Touch sensitivity
	thickness	IK Code			
TST0007R0G4111XXXX06	0.7 mm (standard)	IK03	max 10	Good	Great
TST0007R0G4111XXXX07	1.8 mm	IK06	max 10	Normal	Good
TST0007R0G4111XXXX08	3.0 mm	IK07	max 10	Normal	Normal

Support TFT series: WF70G, WF70A2, WF70A7, WF70A8, WF70M, WF70P, WF70Q, WF70Y

