

April 2016

Welcome to read Winstar Newsletter issue no.89. In this issue, we will introduce Winstar Y Series Family TFT LCD modules. This is an integrated TFT LCD module Series which including a uniformed FPC on modules. All Y Series TFT LCD modules are featured with a same integrated 40-pin FPC pre-designed on modules. The key benefit is all Y Series Modules are built in DC-DC multi-output power (VGH, VGL, AVDD, VCOM); it is more easily for customers to design their applications.

Winstar TFT Y Series Introduction

Winstar has introduced TFT Y Series Family which key feature is having the same 40-pin uniformed FPC on TFT LCD modules. The Y Series TFT LCD modules are derivative products from the Winstar existing standard TFT modules. The Y Series TFT module Family includes 3.5 inch, 4.3 inch, 5.7 inch and 7 inch TFT LCD modules.

Key Advantages of Winstar TFT Y Series:

- ▶ All Y Series TFT modules are including a same integrated 40-pin FPC pre-designed on modules, and the FPC is placed in the central position on the bottom of TFT panel for each module. The customers only have to supply the Logic Power, Backlight Power and RGB signal, it becomes easily for customers to design products.
- ▶ All Y Series built in DC-DC multi-output power (VGH, VGL, AVDD, VCOM).
- ▶ Multi-Function Capacitive Touch Panel and Resistive Touch Panel are available for all Y Series.



WINSTAR Display

TFT LCM Display

TFT Y Series

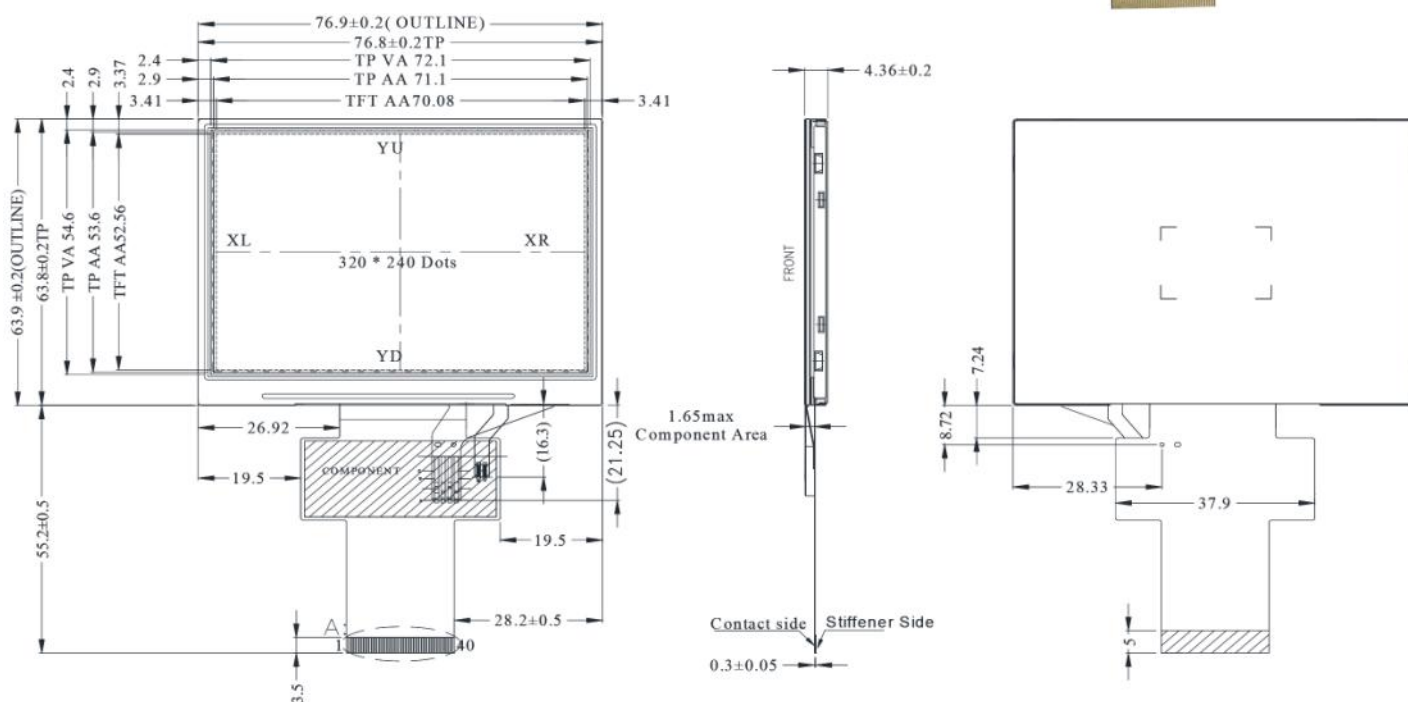


Product Introduction - 3.5 inch TFT WF35Y

The WF35Y model is the 3.5 inch Winstar Y Series TFT LCD module which is the derivative model from WF35L. The key feature of WF35Y is having the same 40-pin pre-defined FPC on TFT LCD modules as the other sizes of Y Series. The Y Series modules are derivative products from the Winstar existing standard TFTs which uniform the pin assignment into a 40-pin FPC; and the FPC is placed in the central position on the bottom of TFT panel for each module. This WF35Y model supports DE and SYNC mode.

This display is having the module dimension of 76.9x 63.9 mm and AA size of 70.08 x 52.56 mm. These TFT LCD modules can be operating at temperature from -20°C to +70°C; its storage temperature range from -30°C to +80°C. Below is the basic specification of WF35Y as reference.

Item-WF35Y	Dimension
Size	3.5 inch
Dot Matrix	320 x RGB x 240(TFT)
Module dimension	76.9x 63.9x 4.36 mm
Active area	70.08 x 52.56 mm
Dot pitch	0.073 x 0.219 mm
LCD type	TFT, Normally White, Transmissive
View Direction	12o'clock
Gray Scale Inversion Direction	6 o'clock
Backlight Type	LED, Normally White
Touch Panel	CTP and RTP optional
Surface	Anti-Glare

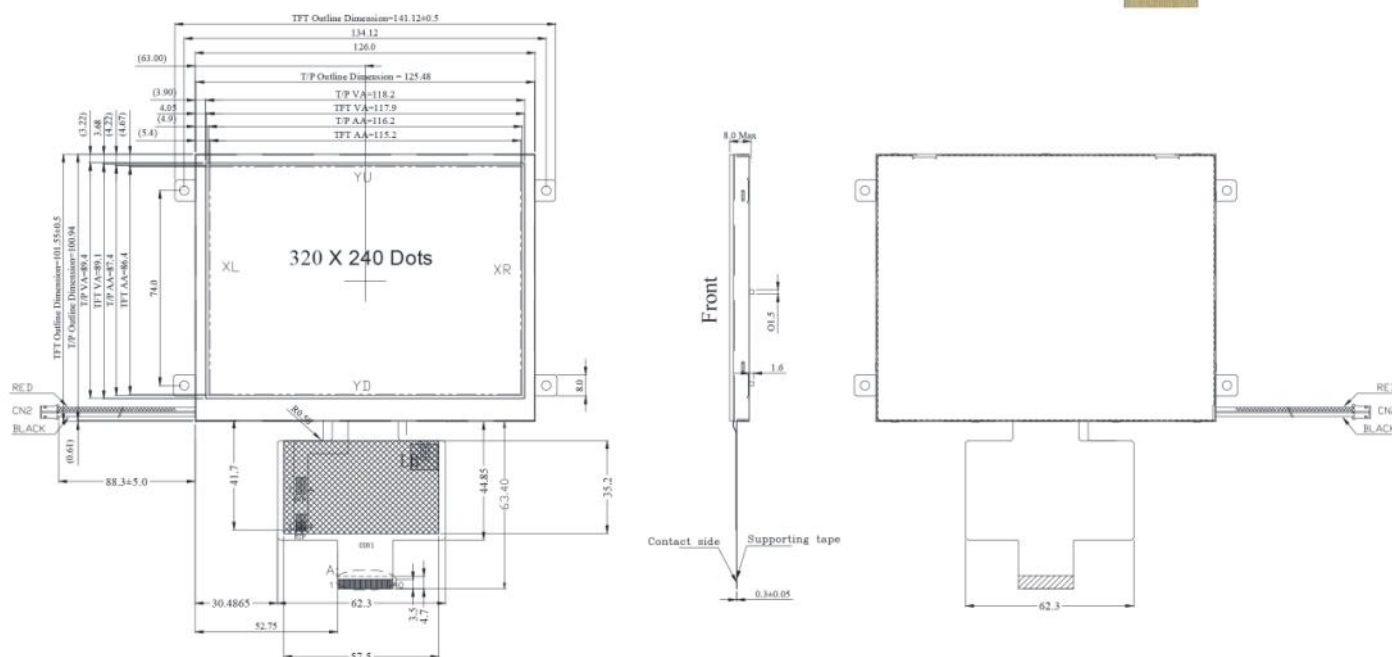


Product Introduction - 5.7 inch TFT WF57Y

The model of WF57Y is the 5.7 inch Winstar TFT Y Series Family of TFT LCD module which is the derivative model from WF57E. Therefore, this model is having the same module dimension and AA size as WF57E. The key feature of all WF57Y is having the same 40-pins pre-defined FPC on TFT LCD modules as the other sizes of Y series modules. The Y Series modules are derivative products from the Winstar existing standard TFT modules which uniform the pin assignment into a 40-pins FPC; and the FPC is placed in the central position on the bottom of TFT panel for each module. This model WF57Y is SYNC mode and DE mode optional and it built in DC-DC multi-output power (VGH, VGL, AVDD, VCOM).

This display is having the module dimension of 141.12 x 101.55 mm and AA size of 115.2 x 86.40 mm. This TFT LCD module can be operating at temperatures from -20°C to +70°C; its storage temperatures range from -30°C to +80°C. Below is the basic specification of WF57Y as reference.

Item-WF57Y	Dimension
Size	5.7 inch
Dot Matrix	320 x RGB x 240 (TFT)
Module dimension	141.12(W) x 101.55(H) x 8.0(D)mm
Active area	115.2 x 86.40 mm
Dot pitch	0.12 x 0.36 mm
LCD type	TFT, Normally White, Transmissive
View Direction	12 o'clock
Gray Scale Inversion Direction	6 o'clock
Backlight Type	LED, Normally White
Touch Panel	CTP and RTP optional
Surface	Glare

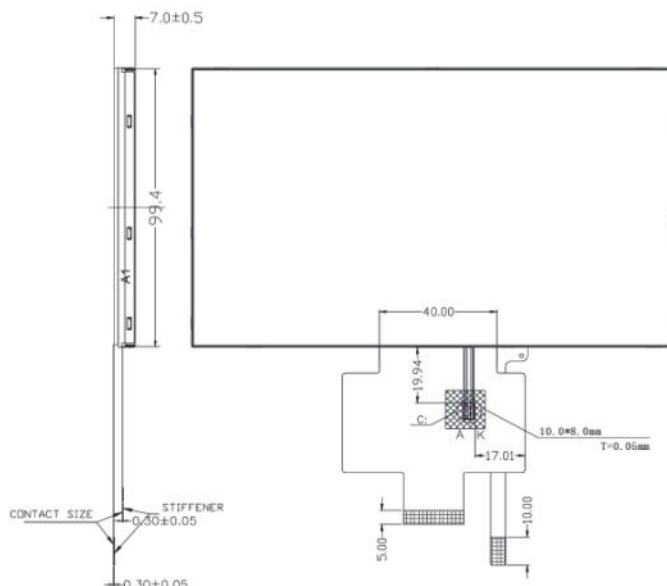
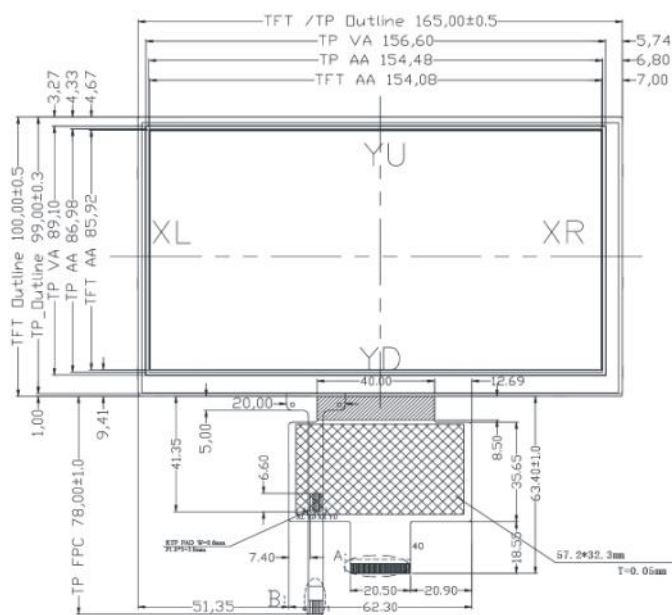


Product Introduction - 7 inch TFT WF70Y

The WF70Y is the 7 inch Winstar Y Series Family TFT LCD module which is the derivative model from WF70G. Therefore, this model is having the same module dimension and AA size as WF70G. The key feature of all WF70Y is having the same 40-pin pre-defined FPC on TFT LCD modules as the other sizes of Y series. The Y Series modules are derivative products from the Winstar existing standard TFT modules which uniform the pin assignment into a 40-pin FPC. The pin define of no. 34 default function is SYNC mode; it also supports DE (Data Enable) mode option. The WF70Y displays all built in DC-DC multi-output power (VGH, VGL, AVDD, VCOM).

This display is having the module dimension of 165.0 x 100 mm and AA size of 154.08 x 85.92 mm. This TFT LCD module can be operating at temperatures from -20°C to +70°C; its storage temperatures range from -30°C to +80°C. Below is the basic specification of WF70Y as reference.

Item-WF70Y	Dimension
Size	7 inch
Dot Matrix	800 x RGBx480(TFT)
Module dimension	165.0(W) x 100(H) x 5.8(D) mm
Active area	154.08 x 85.92 mm
Dot pitch	0.0642 x 0.179 mm
LCD type	TFT, Normally White, Transmissive
View Direction	12 o'clock
Gray Scale Inversion Direction	6 o'clock
Backlight Type	LED, Normally White
Touch Panel	CTP and RTP optional
Surface	Anti-Glare





Exhibition News: 2016 Del Mar Electronic & Design Show

Exposition & Seminar Program
May 4th, 2016 - 10 AM - 5 PM
May 5th, 2016 - 10 AM - 3 PM
 Del Mar Fairgrounds, San Diego, CA


- ▶ Location: Del Mar Fairground, San Diego, CA, USA
- ▶ Date: May 4th ~ May 5th, 2015
- ▶ Hours: 10 AM -5 PM
- ▶ Booth No.: 231
- ▶ <http://goo.gl/WStH1r>

Winstar Product Seminar Schedule at Del Mar (May 4th, 2016)

2016 Free Seminar Schedule				
Mission Towers				
Wednesday, May 4th, 2016				
Time	Arrow Room Free Reg Required	Teledyne LeCroy Room	ROOM C	ROOM D
10:00	LINEAR TECHNOLOGY LT SPICE 	DSO BASICS AND MAXIMIZING THE USE OF ANALYSIS TOOLS WITHIN YOUR OSCILLOSCOPE Free Reg. Required	3D PRINTING - 3D PRINTED INJECTION MOLDING	PRINTED CIRCUIT BOARD DFM 101
11:00		MEASURING AND THE ANALYSIS OF SWITCH MODE POWER SUPPLIES Free Reg. Required	TURNKEY MARKETING TACTICS TO HELP A SMALL BUSINESS GROW Free Reg. Required	
Noon	CONNECTING TO THE CLOUD WITH AMAZON (AWS) FOR HARDWARE IoT MAKERS 		AN INTRODUCTION TO PATCH ANTENNAS	MIL/AERO CONNECTOR PERFORMANCE IMPACT DUE TO HARSH ENVIRONMENT EXPOSURE
1:00	QUALCOMM SNAPDRAGON™ ARM PROCESSORS FOR THE EMBEDDED MARKET 	TROUBLESHOOTING EMBEDDED CONTROLLERS Free Reg. Required	POWER ELECTRONICS APPLICATIONS - HOW POWER SUPPLIES FAIL IN THE REAL WORLD	WINSTAR Display THE NEW DISPLAY, OLED
2:00	HOW TO GET NOTICED IN A CROWDED RE ROOM 		LITHIUM BATTERY TECHNOLOGY UPDATE Free Reg. Required	APPLICATIONS ENABLED BY GALLIUM NITRIDE (EGAN) FETS



Winstar Product Seminar Schedule at Del Mar (May 5th, 2016)

Thursday, May 5th, 2015				
	ROOM A	Teledyne LeCroy Room	ROOM C	Room D
9:00 <i>Early Bird Talks</i>	LCD TECHNOLOGY: WHAT TO AVOID AND WHAT TO EMBRACE	DSO BASICS AND MAXIMIZING THE USE OF ANALYSIS TOOLS WITHIN YOUR OSCILLOSCOPE Free Reg. Required	TECHNOLOGY TRENDS - IOT, WIRELESS, MEDICAL AND INDUSTRIAL AUTOMATION Free Reg. Required	HOW TO REBUILD MANUFACTURING TO MAKE AMERICA GREAT AGAIN Free Reg. Required
10:00	IMPORTANCE OF UPFRONT SIMULATION IN PRODUCT DEVELOPMENT Free Reg. Required	TROUBLESHOOTING EMBEDDED CONTROLLERS Free Reg. Required	BEST PRACTICES IN BUILDING PCBA TEST SYSTEMS FOR DESIGN VERIFICATION AND PRODUCTION TEST. Free Reg. Required	WINSTAR Display THE NEW DISPLAY, OLED  WINSTAR
11:00	ISO 9001:2015 WHAT YOU NEED TO KNOW NOW Free Reg. Required		MIL/AERO CONNECTOR PERFORMANCE IMPACT DUE TO HARSH ENVIRONMENT EXPOSURE	PRINTED CIRCUIT BOARDS, TODAY AND INTO THE FUTURE.

► <http://goo.gl/Wh5DkO>



Del Mar Electronics
DMEDS
& Design Show

Exposition & Seminar Program

May 4th, 2016 - 10 AM - 5 PM

May 5th, 2016 - 10 AM - 3 PM

Del Mar Fairgrounds, San Diego, CA