

May 2020

Winstar Smart Display Can Series Introduction

Winstar released an innovational new product “Winstar Smart Display Can Series”. It offers an out-of-the-box CanOpen development experience that will lower your development costs and speed your time-to-market expectations.

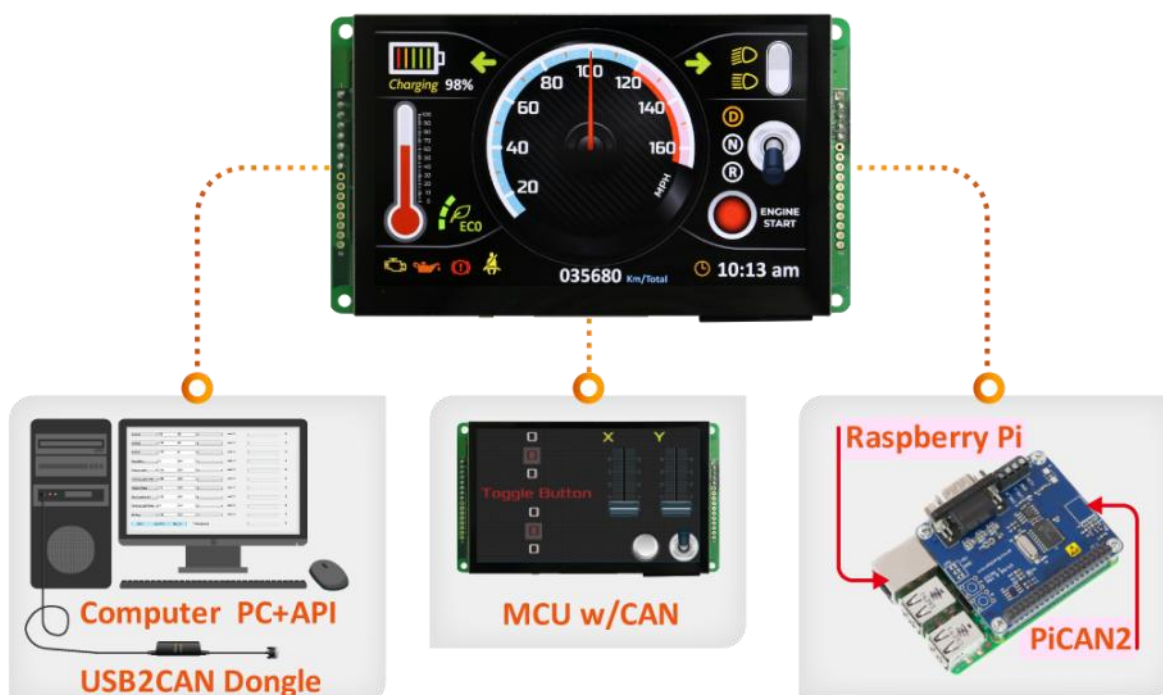
The CanTFT comes with standard UI objects to get customers project off the ground quickly. If customers need custom UI objects support, our engineers are here to help. Send over your contents in PNG/JPG format, we will send over a new set of UI objects within 3~5 working days.

We can provide LCD/TFT to communicate reliably in a hundred feet rather inches and come with daisy chain topology capabilities. Winstar CanTFT offers IPS TFT display with wider viewing angle.

Winstar can offer almost unlimited combinations to support your user experience requirements. Being a display manufacturer, our abilities to mix-and-match different 8 ~ 12 LCDs with our CanTFT platform are limitless. The wide-temperature are designed to support control applications in harsh operating conditions such as automotive, marine, power generation and oil-and-gas.

Smart Display CanTFT Series Basic Function:

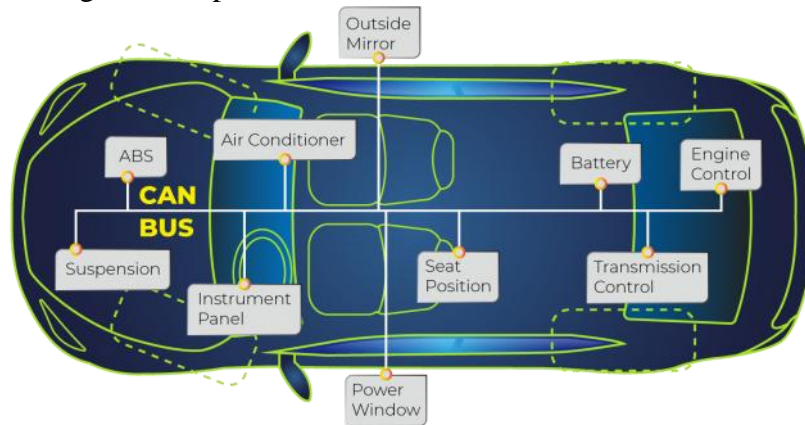
- ▶ DC 5V working voltage, low power consumption for USB to drive.
- ▶ Power-On Self-Test & Splash screen.
- ▶ CAN bus Interface.
- ▶ Supports CANopen protocol, default baud rate at 250KB.
- ▶ Built in flash memory, store the font and Object Dictionary Data.
- ▶ Supports PCAP touch screen.
- ▶ CanTFT 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, MCU, or Raspberry Pi (with PiCAN2).
- ▶ Built-in Buzzer is controlled from master device.



▶ [Link to Winstar Smart Display web page](#)

Why Choose CAN Bus Interface

The CAN (Controller Area Network) communication interface was first developed by Bosch in the 1980s in order to respond to the increasing number of electronic devices used in new cars. The CAN bus can connect and control the entire control system through the simple serial interface.



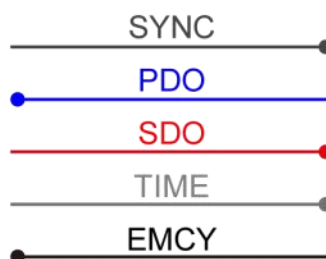
CANopen is a communication protocol and device profile specification for embedded systems which is common used in passenger vehicles, industrial automation, mechanical control, elevator, escalator, electronic equipment for aviation and navigation, etc. Winstar Smart Display CanTFT series already built in object dictionary on module.



Object Dictionary(EDS)



Object Dictionary(EDS)



Speed time-to-market by using Smart Display CanTFT Series

Customers can take the advantage of using Winstar Smart Display CanTFT Series products. Below is the comparison of adopting our Smart Display CanTFT series.

W/O Using Smart Display CanTFT:

- ▶ The user interface (widgets) & functions need to design coding by user.
- ▶ Users need advanced coding skills.
- ▶ Customers develop products will take a longer time.

Using Smart Display CanTFT :

- ▶ The user interface are well defined as objects.
- ▶ Get started quickly, suitable for fast and easy integration of a HMI into any application.
- ▶ Just adopt scripts to control on/off or give a value for objects.

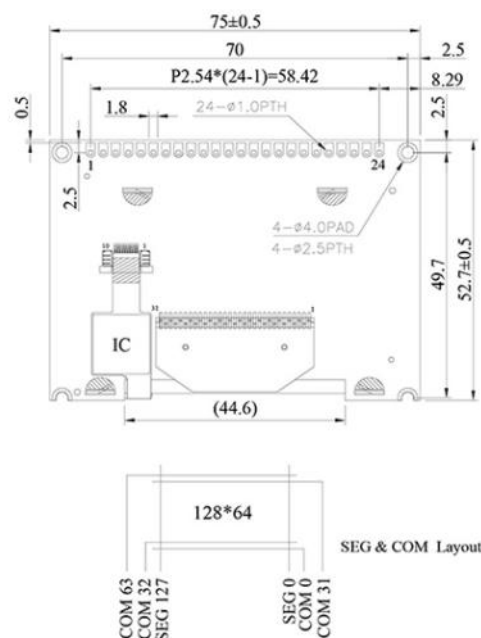
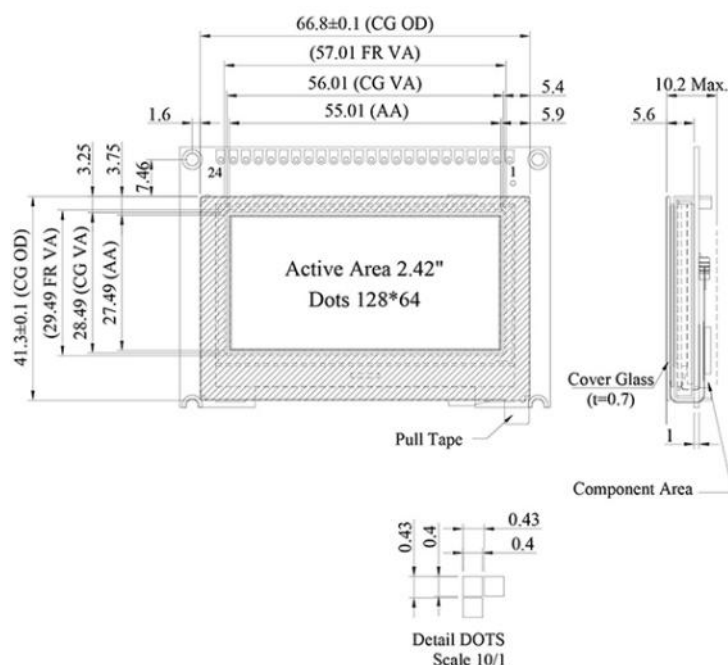
We will officially released 5" Smart Display CanTFT in June. More details will be introduced in next issue Winstar News. Stay tuned.

2.42" WEO012864J with Capacitive Touch Panel

WEO012864J-CTP is a popular size 2.42 inch Graphic OLED display with Capacitive Touch Screen on module; which is made of resolution 128x64 dots. This module is built in with SSD1309 IC, it supports 6800 8-bit parallel interface, optional 8080 parallel, 4-wire SPI and I2C interface, supply voltage for Logic 3V, 1/64 driving duty. This WEO012864J-CTP model is built in with GT911 touch panel IC on module, which supports I2C interface, one Detect Point for Capacitive Touch Screen.

This 2.42" WEO012864J with CTP model is ideal for smart home applications, intelligent technology devices, energy systems, meter devices, communication systems, medical instrument, etc. This module can be operating at temperatures from -20°C to +70°C; its storage temperatures range from -30°C to +80°C.

WEO012864J+CTP	Dimension
Dot Matrix	128 × 64
Module dimension	75.0 × 52.7 × 10.2 Max mm
Active Area	55.01 × 27.49 mm
Pixel Size	0.40 × 0.40 mm
Pixel Pitch	0.43 × 0.43 mm
Display Mode	Passive Matrix
Display Color	White / Yellow / Sky Blue / Green
Drive Duty	1/64 Duty
IC	SSD1309
Interface	6800 / 8080 / SPI / I2C
Size	2.42 inch
CTP IC	GT911
Detect Point	1
CTP Interface	I2C
Surface	Glare



2.89" Character OLED WEP002004C with PCB

WEP002004C is a COG character OLED with PCB board on module; it is diagonal size 2.89" which made of 20 characters x 4 lines, it's very readable due to the high contrast 2000:1. The module is built in with SSD1311 IC; it supports 6800/8080 4bit/8-bit parallel, 4-Wire SPI, and I2C interface, 1/32 driving duty, supply voltage for Logic 5V, optional 3.3V. This model is built-in ROMs for ASCII, English and European and Japanese characters.

WEP002004C is a COG Character OLED display which is having mounting holes on PCB board; that makes it easily to fix module on customers' applications.

WEP002004C OLED module is suitable for smart home application, medical device, smart control, meter, etc. This module can be operating at temperatures from -40°C to +80°C; its storage temperatures range from -40°C to +85°C.

WEP002004C	Dimension
Number of Characters	20 Characters × 4 Lines
Module dimension	92.0 × 31.5 × 7.0 Max. mm
View area	72.42 × 22.82 mm
Active area	70.42 × 20.82 mm
Dot size	0.57 × 0.57 mm
Dot pitch	0.60 × 0.60 mm
Character size	2.97 × 4.77 mm
Character pitch	3.55 × 5.35 mm
Display Mode	Passive Matrix
Display Color	White / Yellow
Duty	1/32
IC	SSD1311
Interface	6800, 8080, SPI, I2C
Size	2.89 inch

