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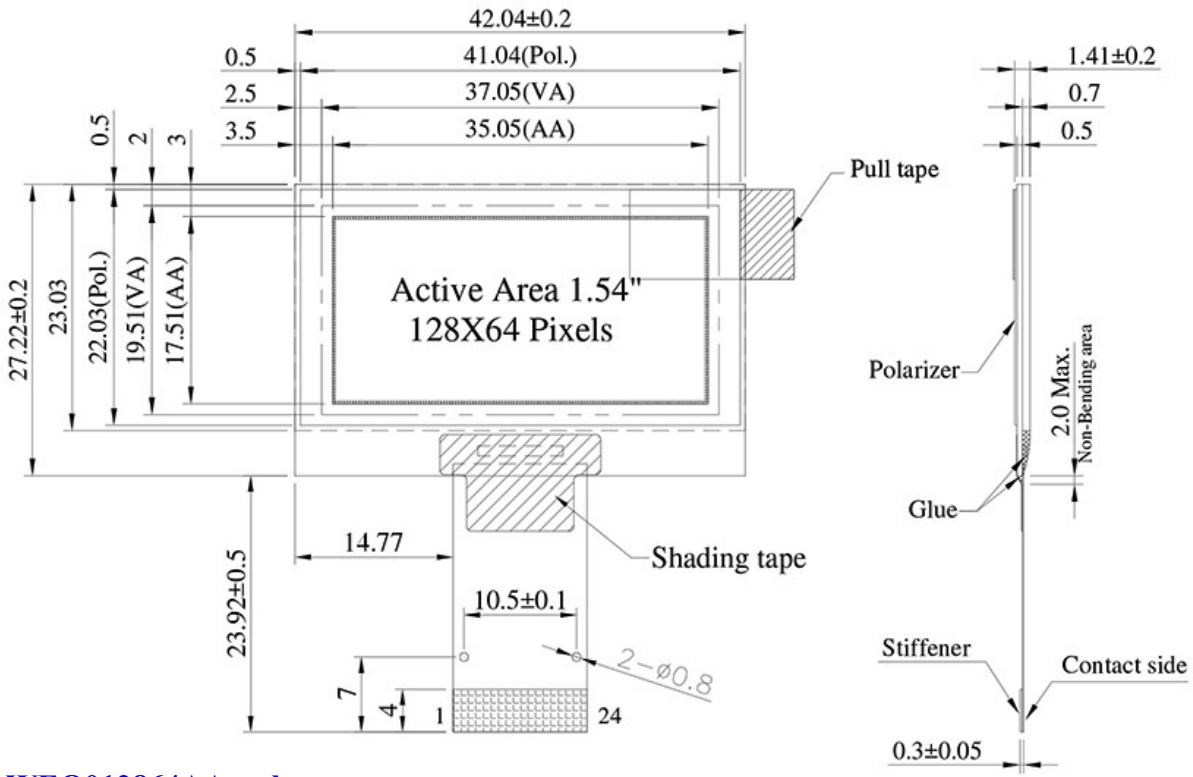
Aug. 2021

1.54” Gray Scale 128x64 COG OLED WEO012864AA

WEO012864**AA** model is a 1.54 inch 128x64 COG OLED display module. This graphic display is built-in with SSD1327 IC; it can communicate via 6800/8080 parallel, 4-wire SPI, and I2C interface, supports 16 (4-bits) grayscale, the power supply voltage for logic 3V, the display with 50% Checkboard current is 10mA for white OLED, 7mA for yellow OLED @12.5V VCC (typical value), driving duty 1/64. If customers don’t need grayscale function, customers can choose the WEO012864A model.

WEO012864**AA** OLED display is based on a chip-on-glass technology; therefore it is very thin, only 1.41 mm in depth. This module is lightweight, low power, and very thin which is suitable for wall/meter devices, home applications, POS systems, Cloud/IoT systems, handheld instruments, intelligent technology devices, energy systems, communication systems, medical devices, etc. WEO012864AA module can be operated at temperatures from -40℃ to +80℃; its storage temperatures range from -40℃ to +85℃.

WEO012864AA	Dimension
Dot Matrix	128 × 64
Module dimension	42.04 × 27.22 × 1.41 mm
Active Area	35.05 × 17.51 mm
Pixel Size	0.249 × 0.249 mm
Pixel Pitch	0.274 × 0.274 mm
Display Mode	Passive Matrix OLED
Display Color	White/Yellow
Drive Duty	1/64 Duty
IC	SSD1327
Interface	6800,8080, 4-wire SPI,I2C
Size	1.54 inch



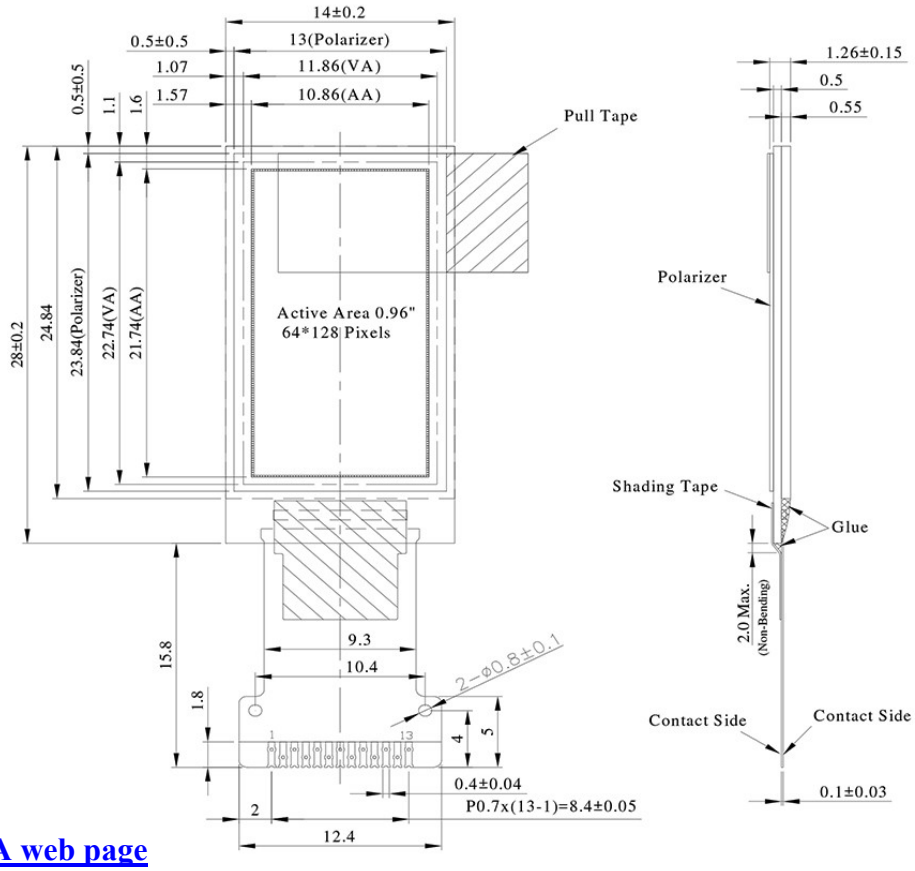
► [Link to WEO012864AA web page]

Consumer Grade 0.96” OLED WEO064128A

WEO064128A model is a consumer-grade COG OLED display, diagonal size 0.96 inch, made of resolution 64x128 dots. This OLED module is built-in with SH1107 IC; it supports 4-wire SPI and I2C interface, the supply voltage for logic 3V, the supply voltage for display 9V, the display with 50% Checkboard current is 8mA @9V VCC (typical value), driving duty 1/64.

WEO064128A model is suitable for wearable devices, portable devices, etc. It can be operated at temperatures from –30℃ to +70℃; its storage temperatures range from -30℃ to +70℃.

WEO064128A	Dimension
Dot Matrix	64 × 128 dots
Module dimension	14.0 × 28.0 × 1.26 mm
Active Area	10.86× 21.74 mm
Pixel Size	0.15 × 0.15 mm
Pixel Pitch	0.17 × 0.17 mm
Display Mode	Passive Matrix OLED
Display Color	White
Drive Duty	1/64 Duty
IC	SH1107
Interface	4-wire SPI , I2C
Size	0.96 inch



► [Link to WEO064128A web page]

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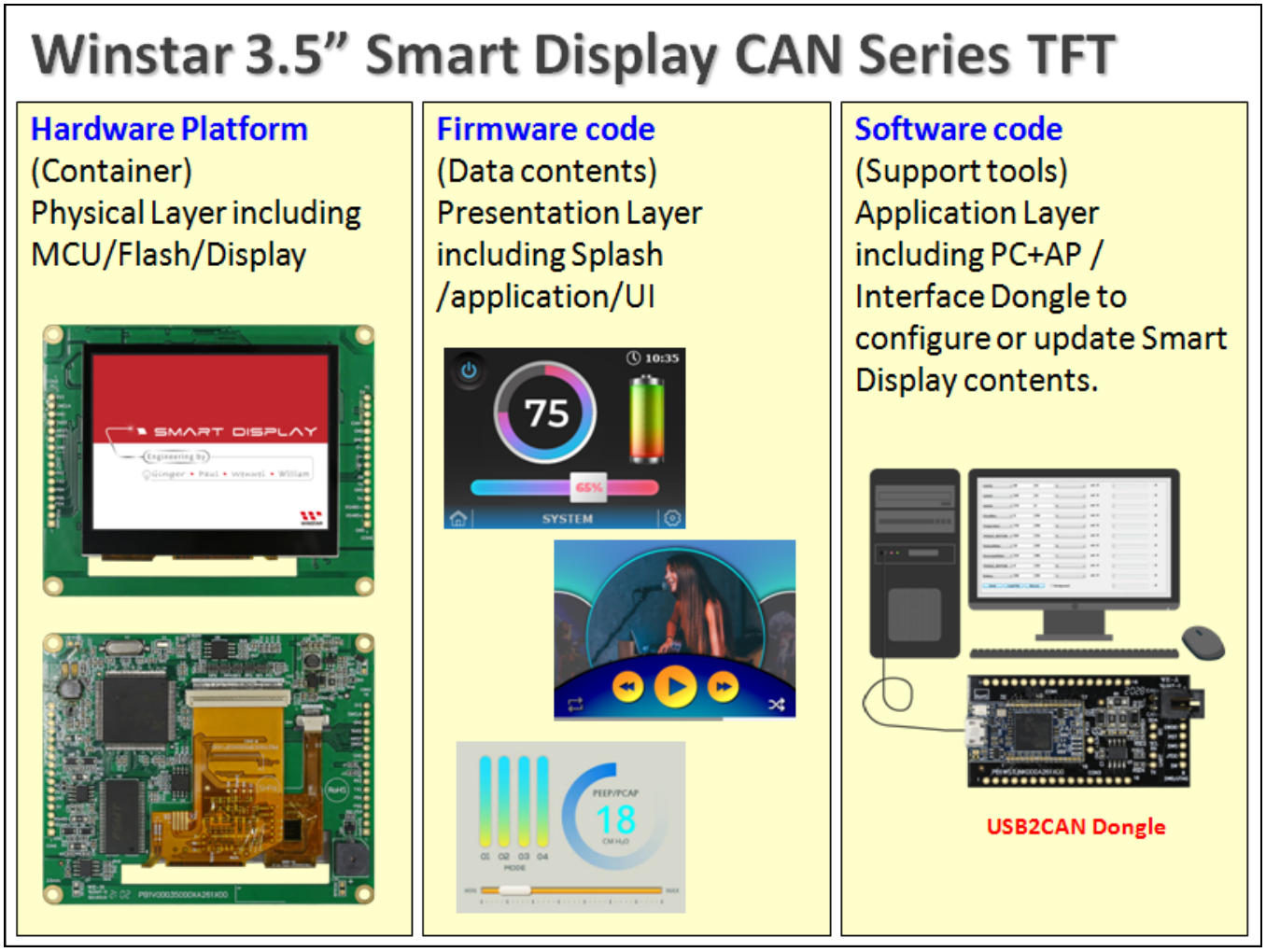
3.5” Smart Display CAN TFT Series

WL0F00035 model is a 3.5 inch Smart Display CAN series TFT display which is running CANopen protocol via CAN bus command to render display content on the screen and return touch event data with protocol objects. WL0F00035 model is integrated with a standard 3.5 inch IPS TFT module WF35XTYACDNG0 and a 4-layers PCBA with built-in firmware code which is developed by Winstar RD team. This 3.5" Smart Display CAN series TFT is an easy-to-use product which allows customers to their own UI without writing a line of code in cost-effective way. This 3.5” Smart Display can use computer with USB2CAN dongle or Raspberry Pi (+PiCAN2) or even MCU scale like Arduino(+CAN adaptor) as HOST platform. Winstar already developed Windows Apps (GUI & GUI Builder) for Smart Display GUI design. Winstar GUI builder software is designed for customers to simulate their UI design in advance by using the drag-and-drop Widget preview function; furthermore, customers can create their ideal UI objects by themselves using this software then go simulation to check UI design without hardware module. Winstar GUI builder software is supporting Windows system only; it can fulfill What You See Is What You Get (WYSIWYG).

►**Try before you buy! Contact us to download Winstar GUI Builder Software.**

Winstar Smart Display CAN Series 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 customize a new set of UI objects to you. Below are what included in our Smart Display Can Series TFT:



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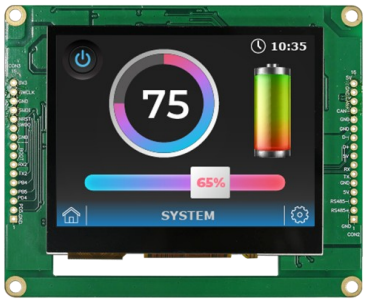
3.5” Smart Display CAN TFT Series

Winstar Smart Display Can Series is really a “smart” choose for customers. There are many important features and functions for this new released 3.5” smart display CAN TFT as below:

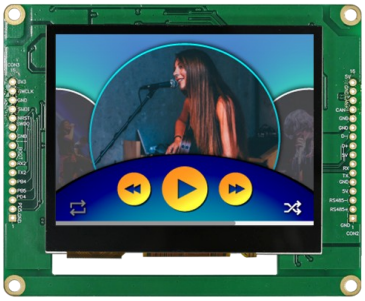
►DC 5V working voltage, low power consumption for USB to drive
►3.5” WF35XTYACDNG0 IPS TFT
► Power-On Self-Test & Splash screen
►CAN bus communication Interface
►Supports CANopen protocol, default baud rate at 250KB
►Built in flash memory, store the font and Object Dictionary Data
►Supports Projected Capacitive touch screen (PCAP)
►Long transmission distance
►Strong anti-interference ability
►Built-in Buzzer.
►Supports Multi-master
►Operating temperature -20℃~70℃
►Design the UI without writing a line of code by Winstar GUI builder!
(**Link to GUI Builder Introduction video**)

We provide below three kinds of demo scenarios for optional. For more details, please check our website or contact Winstar sales persons.



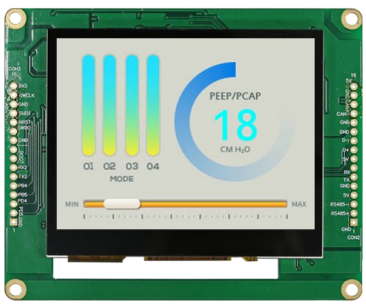
WL0F00035000XGAAASB00 (Industrial Application)

► **Link to Winstar product web page**



WL0F00035000XGAAASC00 (Vehicle Application)

► **Link to Winstar product web page**



WL0F00035000XGAAASD00 (Medical Application)

► **Link to Winstar product web page**

3.5” Smart Display CAN TFT Series

Below is the 3.5” CAN Series Smart Display mechanical data and TFT-LCD module information for reference:

Mechanical Data:

Item	Standard Value	Unit
LCD panel	76.84(W) × 63.84(H) × 4.53	mm
PCB	100(W) × 82(H) × 1.6	mm
Housing outline	NA	mm

TFT Module Information: WF35XTYACDNG0

Item	Standard Value	Unit
Operating voltage	5	Vdc
Communication Interface	CAN bus differential ± 3.3	Vpp
LCD display size	3.5	inch
Dot Matrix	320 × 3(RGB) × 240	dot
Module dimension	76.84(W) × 63.84(H) × 4.53(D)	mm
Active area	70.08(W) × 52.56(H)	mm
Dot pitch	0.073(W) × 0.219(H)	mm
LCD type	TFT, Normally Black, Transmissive	
View Direction	80/80/80/80 (IPS TFT)	
Aspect Ratio	4:3	
Touch Panel	PCAP	
Surface	Glare