

Taiwan, June, 2015

Welcome to read Winstar Newsletter issue no. 81. In this issue, we will introduce the entire Winstar OLED products list and the new released OLED product 2.7" WEO012864K and a bigger size of OLED 5.5" WEX025664D. Welcome to read the content thru the QR code on your cell phone.

Winstar 2015 Summer Company Staff Travel Activity

Summer time always is a wonderful season, especially having a vacation with family and colleagues in the most famous tourist spot of Taiwan, Alishan (Ali Mountain). The spots of special interest at Alishan are the world famous sunrise, the sea of clouds, the sunset, the forest, and the mountain railway. These are called the five wonders of Alishan.

All of us had a wonderful time experienced the beauty of Alishan. Reaching the terrace at the peak, when we look far into the distance, we see the white clouds emerging from valleys and hovering with wind, we enjoy the sunset and sunrise and experience the delight of the bathing in the wonderful forest. This travel inspired us to have more energy to move on for coming challenges. Thanks to the management of Winstar Display to have a company staff travel annually for all Winstar employees.



Shipping Arrangement before Stocktaking

Winstar Display will have half yearly stocktaking from June 29 thru 30, 2015 for the Taiwan and China plants. Please note that all the shipping arrangement during this period will be forbidden. Below is the last shipping date and the first shipping date for this period as your reference. Please work with your Winstar sales closely before the stocktaking if your shipment might be affected. Thank you.

Shipping From Taiwan & China

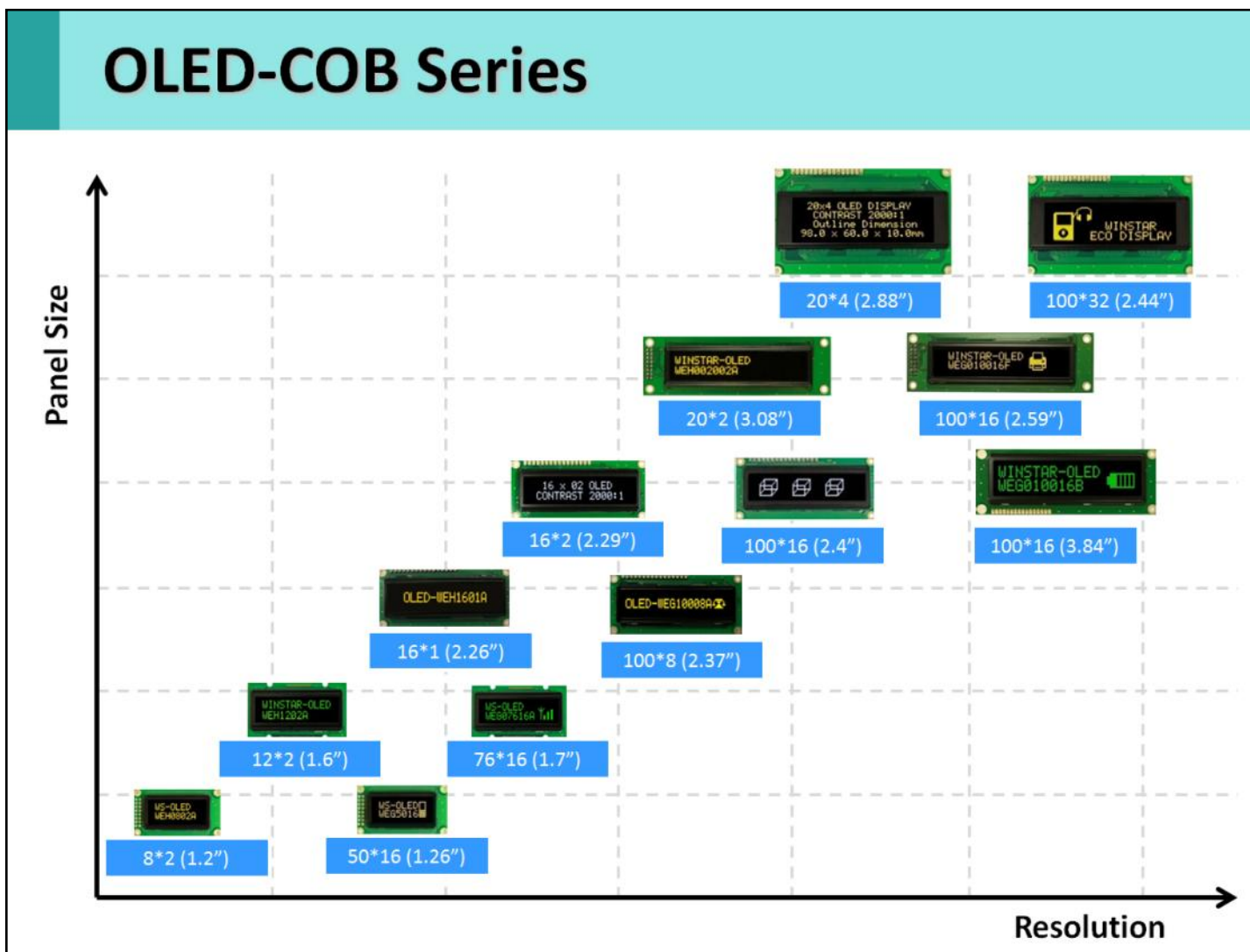
- ▶ Last shipping date: June 26, 2015
- ▶ First shipping date: July 1, 2015

Winstar OLED COB Product List

OLED Display is a new exciting technology; people consider OLEDs to be the new generation display. The nature of OLED technology lends itself to extremely suitable to be used in a variety of different applications. What this means is that OLEDs can be deployed in a wide range of electronic devices and can be used extensively throughout any given device especially considering the below OLED benefits. Just like traditional STN display, OLEDs also have three popular constructions such as COB, TAB and COG types. In this page, these are COB modules which we already released in our OLED product line. The COB OLEDs have the advantages of easily fixed modules on customers' applications because of having PCB board on it. More detailed information, welcome to contact with our sales team.

OLED Key Feature:

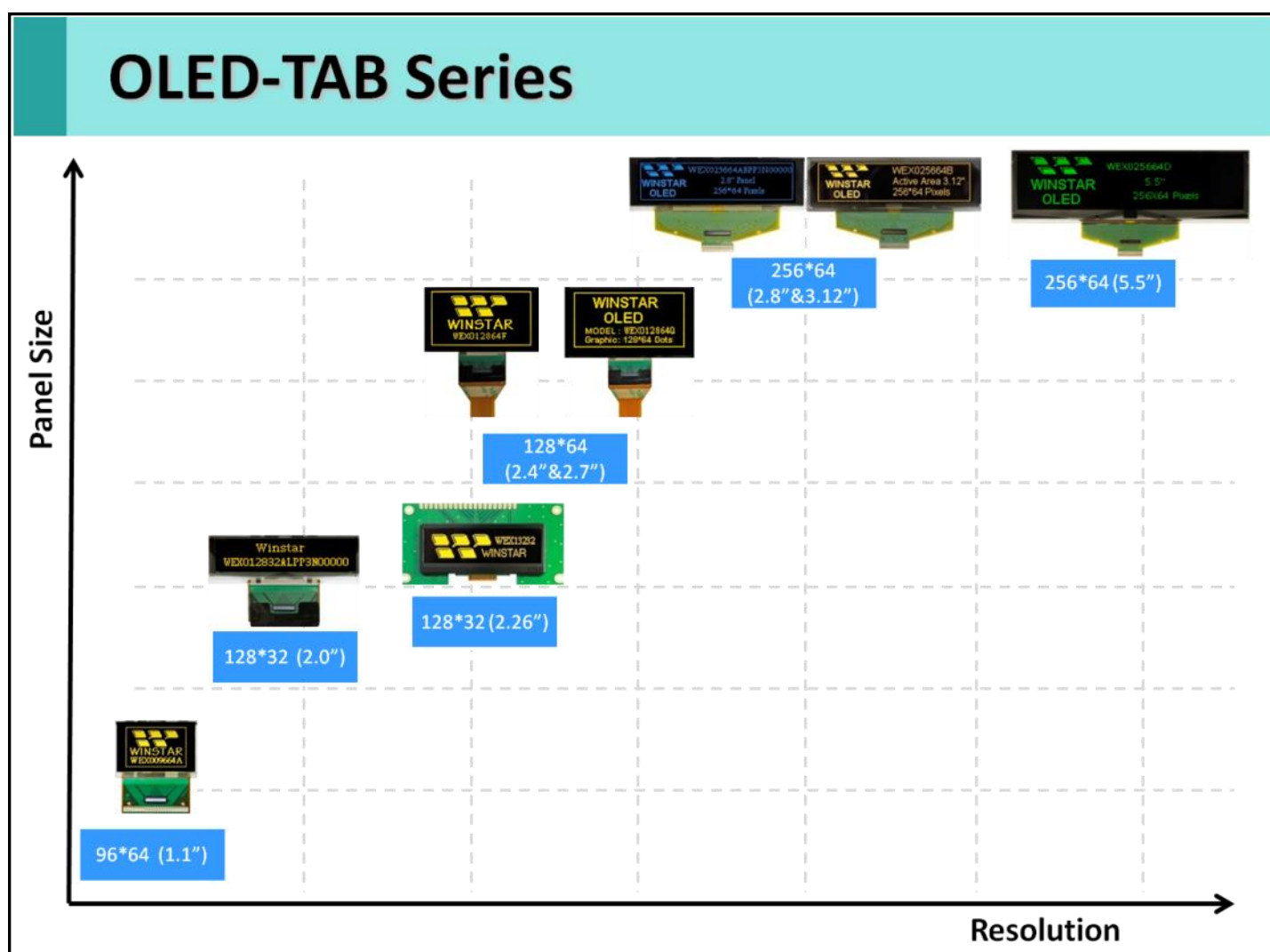
- ▶ Faster response time: At +25 °C 10 μsec
- ▶ Unlimited viewing angle: Up to 175 degree
- ▶ Thin – No need of backlight, self emitting
- ▶ High Brightness
- ▶ High contrast ratio: Up to 2000:1
- ▶ Wide Operation Temperature: -40 °C ~ 80 °C



Winstar OLED TAB Product List

Here are Winstar OLED TAB series, including 1.1 inches of 96x64, 2.0 inches of 128x32, 2.26 inches of 128x32, and very popular 2.4 inches & 2.7 inches of 128x64 as well as the bigger size 2.8 inches & 3.12 inches of 256x64. In this issue, we released another bigger size of 5.5" of 256x64 module WEX025664D. We will introduced it on the next page.

Winstar TAB Series are suitable for wall / meter devices, home applications, POS system, Cloud/IoT system, handheld instruments, intelligent technology devices, energy systems, automotive, communication systems, medical instrument, etc. Customers can upgrade your current applications from traditional STN displays to OLED displays since Winstar provides a very wide range of dot pixel formats OLED solutions.

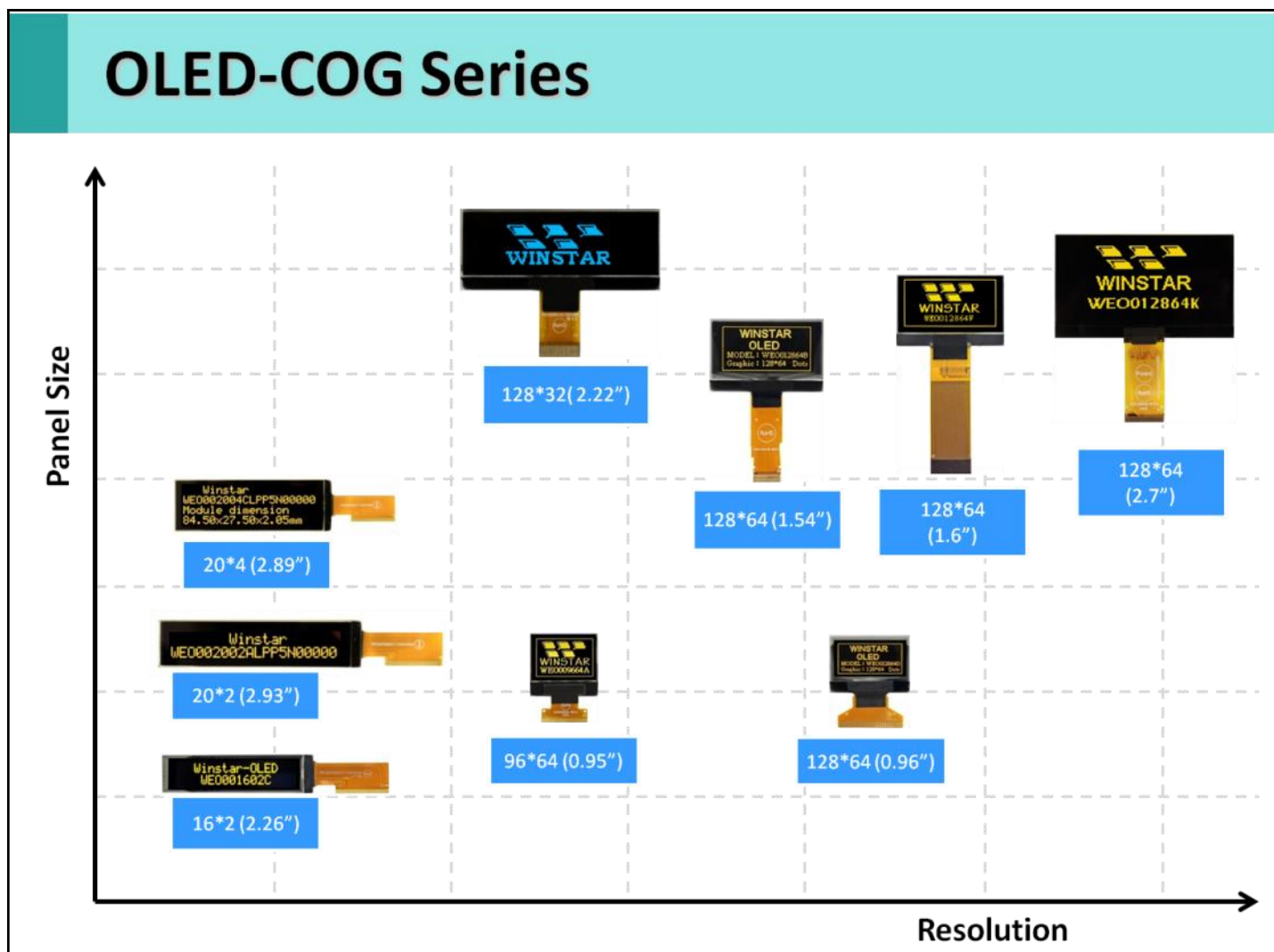


Winstar OLED COG Product List

Below are the Winstar COG module types which including the character types of 16x2, 20x2 & 20x4 and the graphic types of 0.95 inches 96x64, 0.96 inches of 128x64, 1.54 inches of 128x64, 1.6 inches of 128x64 & 2.22 inches of 128x32 as well as the 2.4 inches & 2.7 inches of 128x64 OLED display modules.

These OLED COG modules are ultra thin, lightweight and low power consumption which is great for handheld instruments, meters, smart grid, wearable device, IoT, etc. One of the significant advantages of COG construction OLED modules is the FPC usually can be bendable comparing to TAB OLED since the FPC is flexible and there is no chip on the PFC. Therefore, the customers have less limitation to design the displays on their applications.

The following OLED COG series, basically, they are available for yellow emitting color. If you request other colors, please contact with our sales team.

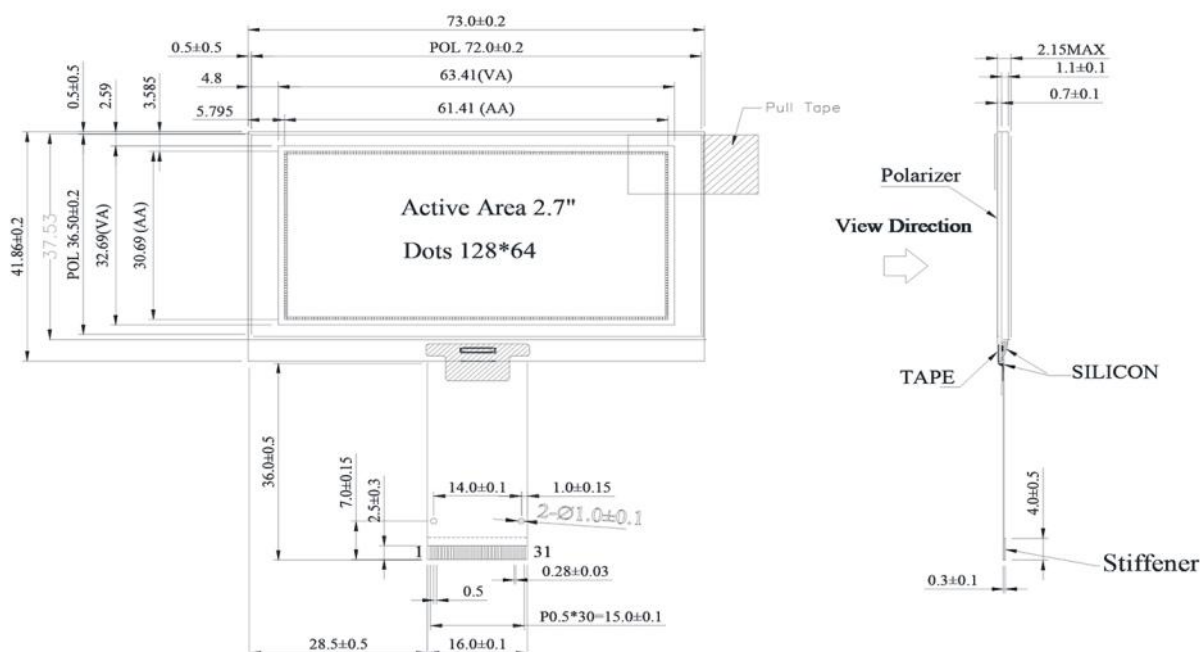


Product Introduction - 2.7" OLED WEO012864K

Winstar Display released one standard 2.7" resolution 128x64 OLED Graphic model no. WEO012864K. This display is built-in SSD1309 IC which with the module dimension of 73.0 x 41.86 mm and AA size of 61.41 x 30.69 mm. The display is based on a chip-on-glass technology and therefore reach a very low installation depth of only 2.15 mm.

This OLED module can be operating at temperatures from -40°C to $+80^{\circ}\text{C}$; its storage temperatures range from -40°C to $+80^{\circ}\text{C}$. Below is the basic specification of WEO012864K as reference –

Item-WEO012864K	Dimension
Dot Matrix	128 x 64
Module dimension	73.0 × 41.86 × 2.15 mm
Active Area	61.41 × 30.69 mm
Pixel Size	0.45 × 0.45 mm
Pixel Pitch	0.48 × 0.48mm
Display Mode	Passive Matrix
Display Color (available)	Yellow
Drive Duty	1/64 Duty
IC	SSD1309



Product Introduction - 5.5" OLED WEX025664D

Winstar Display released one standard 5.5" resolution 256x64 OLED TAB Graphic model no. WEX025664D. This display is built-in SSD1322 IC which with the module dimension of 146.0 x 45.0 mm and AA size of 135.65 x 33.89 mm. This module is the largest passive-matrix OLED we have launched so far in our OLED product line which is very suitable for POS system application.

This OLED module can be operating at temperatures from -40°C to +80°C; its storage temperatures range from -40°C to +80°C. Below is the basic specification of WEX025664D as reference –

Item-WEX025664D	Dimension
Dot Matrix	256 x 64 Dots
Module dimension	146.0 × 45.0 × 2.05 mm
Active Area	135.65×33.89 mm
Pixel Size	0.5×0.5 mm
Pixel Pitch	0.53×0.53 mm
Display Mode	Passive Matrix
Display Color (available)	Green
Drive Duty	1/64 Duty
IC	SSD1322

