NEWS

www.winstar.com.tw

April 2021

Market Status: Worldwide Electronic Component Shortage to Cause Rise in Prices

In 2020, the global electronics industry goes through unexpected disruption since the COVID-19 pandemic. The ongoing COVID-19 pandemic has pushed businesses go for remote working, and this has made cloud computing solutions have been played the most important role in maintaining operation business continuity. The Covid-19 pandemic has permanent affected on the way we work, as well as the way we live.

The pandemic is fuelling the growth of the Stay-at-Home Economy, Remote Working, medical equipment and 5G applications new demand. Furthermore, the automotive chip crunch began in late 2020 after the worldwide car market recovered faster than expected. A resurgence of demand for automobiles in Q4 2020 took the industry by surprise. A confluence of several events brought the industry to the brink of exhausting its manufacturing capacity especially for chips (ICs) from Q3 2020 till now and expected will continue to the end of 2021 or even to 2022. The status bring out a big problem was that strong demand for semiconductor chips used in PCs/laptops, Cloud datacenters, AI clusters, games, medial and crypto-currency mining was already constraining the industry supply chain in late last year.

Unfortunately, these statuses have become a crisis in 2021, the prices of semiconductors are keeping rise up due to shortages in production capacity in comparison to the market demand. And shortages weren't the only problem -- so were rising raw component prices such as copper, steel. As demand for components rose, and not enough supply, raw material costs increased also the lead-time become longer. The imbalance between supply and demand has inflated the cost of the raw materials by two to four folds. Furthermore, the Taiwan dollar soars around 5% against US dollar from 2020 which also increased our cost. Winstar regrettably is no-longer able to absorb these extra costs by ourselves. We kindly need your understanding to share these burdens during this challenging time. Recently, our prices updated and longer lead-time reflects the current market situation. If there have further questions, please contact your Winstar Sales for further discussion.
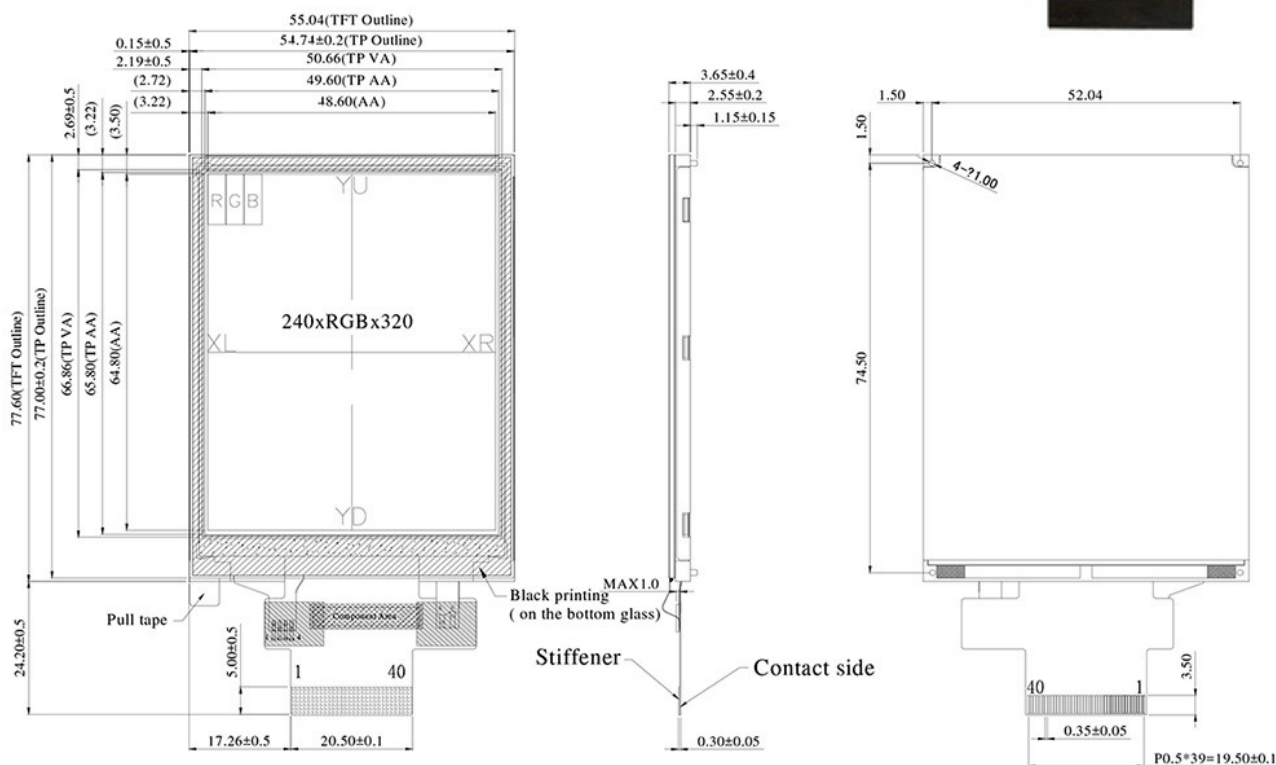

Prices are on the rise

3.2" High Brightness IPS TFT WF32DSLAJDNT0 with RTP

WF32DSLAJDNT0 is a portrait mode 3.2 inch TFT LCD module with Resistive Touch Panel (RTP), made of resolution 240x320 pixels. This module is built in with ILI9341 driver IC, it supports 8080 MCU 8bit/9bit/16bit/18bit/ SPI (3 Wire/4 Wire) interface. WF32DSLAJDNT0 is a high brightness TFT-LCD module, typical value 700 nits, contrast ratio 500:1 (typical value), view direction 6 o'clock, gray scale inversion direction 12 o'clock, glare surface panel. If customers don't need High Brightness backlight, please choose WF32DTLAJDNT0.

The power supply voltage (VCI) of WF32DSLAJDNT0 is from 2.5V to 3.3V, typical value 2.8V. It can be operating at temperatures from -20℃ to +70℃ and storage temperatures from -30℃ to +80℃.

WF32DSLAJDNT0	Dimension
Size	3.2 inch
Dot Matrix	240 x RGB x 320(TFT)
Module dimension	55.04(W) x 77.6(H) x 3.65(D) mm
Active area	48.6 x 64.8 mm
Pixel pitch	0.2025 x 0.2025 mm
LCD type	TFT, Normally White, Transmissive
View Direction	6 o'clock
Gray Scale Inversion Direction	12 o'clock
Aspect Ratio	Portrait
Driver IC	ILI9341 or Equivalent
Interface	8080 MCU 8bit/9bit/16bit/18bit/SPI
Backlight Type	LED, Normally White
Touch Panel	With RTP
Surface	Glare

► **Link to WF32DSLAJDNT0 web page**

4.3" HDMI Signal High Brightness IPS TFT WF43WSYFEDHNV

WF43WSYFEDHNV is an IPS 4.3 inch High Brightness TFT-LCD module; it's made of resolution 480x272 pixels. WF43WSYFEDHNV comes with a control board which supports HDMI signal (Only DVI) interface and having a 40-pin GPIO connector on the board; it is designed to make Raspberry Pi usage become easily. The control board on module is featured with four mounting holes which is an easy method for customers to fix modules on their applications. WF43W HDMI series also supports PWM (Pulse Width Modulation) function for adjusting LED backlight brightness.

WF43WSYFEDHNV is adopted IPS panel which has a wider viewing angle of Left:80 / Right:80 / Up:80 / Down:80 degree (typical value). This TFT model is built in with TFP401 controller IC, it supports HDMI signal (only for DVI) interface, brightness 1000 nits (typical value). We also offer Resistive Touch Panels (RTP) and Projected Capacitive Touch Panel (PCAP) optional for WF43W HDMI signal series, available part no. WF43WSYFEDHTV(RTP) and WF43WSYFEDHGV(PCAP).

The supply voltage for LCM (VDD) of WF43WSYFEDHNV is 5V, glare surface glass, aspect ratio 16:9, contrast ratio 800:1 (typical value). It can be operating at temperatures from -20℃ to +70℃ and storage temperatures from -30℃ to +80℃.

WF43WSYFEDHNV	Dimension
Size	4.3 inch
Dot Matrix	480 x RGBx272(TFT)
Module dimension	105.5(W) x 84.2(H) x 22.13(D)mm
Active area	95.04 x 53.856 mm
Pixel pitch	0.198 x 0.198 mm
LCD type	TFT, Normally Black, Transmissive
Viewing Angle	80/80/80/80
Aspect Ratio	16:9
Controller IC	TFP401
Interface	HDMI (only for DVI) signal
Backlight Type	LED, Normally White
Touch Panel	PCAP/RTP optional
Surface	Glare

► **Link to WF43WSYFEDHNV web page**

WINSTAR NEWS www.winstar.com.tw

7" LVDS High Brightness IPS TFT WF70A9SWAGLNN0

WF70A9SWAGLNN0 is a 7" High Brightness with Wide Temperature IPS TFT-LCD display, made of resolution 800x480 pixels. This module is built in with HX8249-A and HX8678-C driver ICs, it supports LVDS interface. The LVDS（Low-Voltage-Differential-Signaling）becomes more popular for TFT LCD display. WF70A9SWAGLNN0 module was designed to use LVDS interface which is a popular choice for TFT LCDs and peripherals in need of high bandwidth, like high-definition graphics and fast frame rates. It is a great solution because of its high speed of data transmission while using low voltage and improved noise performance.

WF70A9SWAGLNN0 is adopted IPS panel which is having the advantage of wider view angle of Left:80 / Right:80 / Up:80 / Down:80 degree (typical value), contrast ratio 1000:1 (typical value), high brightness 1000 nits (typical value), anti-glare surface panel, aspect ratio 15:9. The supply voltage (VCC) of WF70A9SWAGLNN0 is from 2.7V to 3.6V, typical value 3.3V. It can be operating at wide temperatures from -30℃ to+ 80℃ and storage temperatures from -30℃ to +80℃ .

WF70A9SWAGLNN0	Dimension
Size	7 inch
Dot Matrix	800 x RGB x 480(TFT)
Module dimension	165.8(W) x 106.61(H) x 6.5(D) mm
Active area	152.40 x 91.44 mm
Pixel pitch	0.1905 x 0.1905 mm
LCD type	TFT, Normally Black, Transmissive
View Direction	80/80/80/80
TFT Interface	LVDS
TFT Driver IC	HX8249-A + HX8678-C or Equivalent
Aspect Ratio	15:9
Backlight Type	LED, Normally White
Touch Panel	PCAP/RTP optional
Surface	Anti-Glare

► **Link to WF70A9SWAGLNN0 web page**