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battery power. The Sharp claims the smartphones with IGZO panels can work for two days without battery charging. That can really be a selling point to mention. An estimated 80 to 90 percent of power saved in your smartphones or tablet PCs by displaying still images. In other words, the IGZO technology can hold the screen image after the power is switched off. IEK indicated that IGZO TFT size can be 25 percent smaller than a-Si TFT. The fine data line allows twice resolution. In terms of power consumption, the smaller TFT size can enhance the backlight efficiency and reduce power consumption 10 to 20 percent. Using low leakage during the TFT off status, the driving frequency lowers down between 2Hz or 5Hz from the general 30Hz to 50Hz. In addition, the narrow frame is another selling point to say. Take a 7-inch tablet panel for example, the frame width of an a-Si panel is about 2.78mm, but that of an IGZO panel can be reduced to 1.75mm only, around 1-mm smaller. With the excellent performance, the IGZO technology is regarded as a potential candidate for the next iPhone display.

Lower cost and size flexibility make IGZO a strong competitor to LTPS

As for the cost issue, the initial and running cost of IGZO technology is lower than LTPS. The fabrication facilities are the same as what the a-Si TFT fabrication process needs, just by upgrading the existing a-Si production line. As a-Si TFT, the amorphous Oxide TFT supports 8G to 10G fab production. Moreover, they both require only five to seven photo masks. Whereas, the LTPS backplane technology requires seven to nine photo masks to cause higher cost and more complexity during the production process. The higher yield rate and lower cost are attractive to panel makers. Though the uniformity of amorphous Oxide TFT is better than that of LTPS, the biggest disadvantage over LTPS is its slower mobility.

The AMOLED display is the next-generation display and can be a major application for the IGZO backplane. So

far, LTPS is the major adoption for the AMOLED display. For the large-sized display, the IGZO has more possibility to win a place. Also, its availability for the flexible display design makes it a potential candidate in the decade. The Oxide TFT backplane support variable substrates like glass, metal and plastic materials. So far, it can be applied to not only LCD but also OLED and E-paper displays. The current OLED production adopts laser process so that visible stripes are occurred. With IGZO, the stripes can be invisible.

Smartphone is decisive to the success of either technology

The smartphone is a cash cow for both manufacturers and brand companies. For a smartphone, the high-resolution is a vital element for a high-quality display. It is a trend to enlarge the resolution as well. To maintain the visual quality, current a-Si TFT technology is no longer enough as the abovementioned. For example, the smartphone moves to larger size above 5-inch, and over 300 ppi resolution is a must-to-have feature hence. The LTPS and IGZO are two major technologies to offer more than 400 ppi resolution on 5-inch displays. The display resolution and size of smartphones have been enlarged to FHD and over 4-inch. Over 300 ppi resolution has been a must-to-have feature during the next few years. At present, the LTPS and IGZO are two promising backplane technologies. The former is the major adoption for the smartphones so far. However, the size limitation makes it give way to the IGZO solution for the large-sized display application. The LTPS technology is able to supports up to the 6G panel fabrication, but the Oxide TFT technology can support up to 8G and 10G fab for the TV panel production.

For the new technologies, the smartphone market is the major one because it is not price sensitive and pursues high-quality display as one of the most important R&D directions.

On the other hand, there are still some issues for IGZO to overcome, including uniformity at the G8 fab process, stability of IGZO target material and stability of G4 fab process. 🌐

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