Tft lcd displays

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A thin-film-transistor liquid-crystal display (TFT LCD) is a variant of a liquid-crystal display (LCD) that uses thin-film-transistor (TFT) technology to improve image qualities such as addressability and contrast....

TFT stands for thin-film transistor, which is also known as the active matrix display technology. It can act more responsive to change (in contrast with the "passive matrix") An LCD with TFT technology has a...

,?TFT-LCDLCD,LCD,??,TFT-LCD,??,,,...

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More information about TFT Technology you can find here:

TFT LCD Display (Thin-Film-Transistor Liquid Crystal Display) technology has a sandwich-like structure with liquid crystal material filled between two glass plates. Two polarizer filters, color filters (RGB, red/green/blue) and two alignment layers determine exactly the amount of light is allowed to pass and which colors are created.

Each pixel in an active matrix is paired with a transistor that includes a capacitor which gives each sub-pixel the ability to retain its charge, instead of requiring an electrical charge sent each time it needed to be changed. The TFT layer controls light flow a color filter displays the color and a top layer houses your visible screen.

Utilizing an electrical charge that causes the liquid crystal material to change their molecular structure allowing various wavelengths of backlight to "pass-through". The active matrix of the TFT display is in constant flux and changes or refreshes rapidly depending upon the incoming signal from the control device.

The pixels of TFT displays are determined by the underlying density (resolution) of the color matrix and TFT layout. The more pixels the higher detail is available. Available screen size, power consumption, resolution, interface (how to connect) define the TFT displays.

The TFT screen itself can"t emit light like OLED display, it has to be used with a back-light of white bright light to generate the picture. Newer panels utilize LED backlight (light emitting diodes) to generate their light and therefore utilize less power and require less depth by design.

TFT display modules include the TFT display screen, LED backlight, and driving circuitry.

TFT LCDs offer several advantages over other types of displays (CRT, Plasma). It is light, thin, and energy efficient which made mobile phones, laptops, hang-on wall LCD TV, flat computer monitors and other

handhold devices possible. TFT LCDs are also relatively inexpensive, which makes it dominant in display world.

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