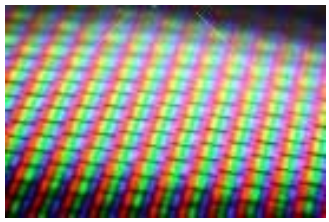
AZ DISPLAYS, INC.

TECHNICAL BRIEF

BY: AZD ENGINEERING



Communication to Digital TFT Displays

Although both monochrome and digital color TFT LCDs belong to the digital type displays, the way of sending data to a digital TFT panel is rather different (mainly because of the color filter).

Digital TFT Interface Types

A digital TFT Display is widely known for its easy and flexible capabilities of direct communication to a microprocessor. Many TFTs carry several types of inputs for digital TFT interface.

The most common form used is called 24-bit digital RGB which consists of 8 bits for Red, 8 bits for Blue and lastly 8 bits for Green colors. Basically each bit of data is made up of a certain color. Many times not all 24 bits are used and some of the data may be sent 18 bits at a time. Which means, the more bits of data that are transferred to the panel, the more variations of color and contrast can be seen on the display.

CCIR601/656 is another standard form of digital TFT interface. This interface is used for encoding interlaced analog signals into digital form. This standard form can used in parallel and serial. Its main advantage is its high speed 360 Mbits/s transfer rate used in digital tape and video editing.

New Releases

AZ Displays announces availability of new 5.7” digital TFT panels of 320x240 resolution. PD057VU2 is of COG construction and digital RGB interface. PD057VU1 is a complete solution module with built-in timing controller chip, it crosses to a popular Sharp model and is a mechanical drop-in for Kyocera’s 5.7” CSTN