

Intelligent Display Cuts Development Time

ELECTRONIC ASSEMBLY has developed a new TFT graphic display whose numerous functions cover a wide variety of potential applications. Built-in intelligence also helps drastically cut development time.

The EA eDIPTFT32-A offers an abundance of clever graphics functions that can be directly accessed by the development engineer without having to program at the pixel level. Eight predefined fonts are included and can be accurately positioned (down to the pixel) and adapted to meet individual needs. Up to 256 fonts can be stored in the integrated flash memory. All fonts can be scaled as required and rotated in 90-degree increments. The 4 MB memory can also store other types of data, such as images, animations, and macros.

Many geometric functions are likewise integrated for displaying bar graphs, frames, and switches, for example. Analog rotary and pointer instruments can be easily visualized using a free application called "LCD Tools". The display unit features two analog inputs for this purpose.

The optional variant with touch panel makes it possible to operate the display using graphic controls that change dynamically. Up to 40 buttons, switches, or bar graphs can be defined and changed by software, depending on the situation.

Measuring 3.2 inches in the diagonal, the display supports 65,536 colors and has a resolution of 320 x 240. Images and texts can be mixed as desired. Macro pages let the developer realize a multilingual display. The energy-efficient LED background illumination is set via software. To give the developer the greatest level of freedom, the display units provide three different interfaces – RS 232, I²C bus, and SPI bus. The display can be used in an enhanced temperature range of -20 °C to +70 °C.

Its larger counterpart, a 4.3-inch TFT display in 16:9 format, offers the same functions.

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