

# Ad-hoc running TFT



SPI - I<sup>2</sup>C - RS-232  
(RS-485 - USB)

- \* No Controller Board required !
- \* RS-232 + I<sup>2</sup>C Bus + SPI
- \* Character Set & Graphic Functions
- \* 3.2" and 4.3" / 65536 colors
- \* Single Supply +5V (3.2" also +3.3V)
- \* Incl. Touch Panel Controller
- \* T<sub>Op.</sub> -20..+70°C



3.2"

EA eDIPTFT32-ATP



4.3"

EA eDIPTFT43-ATP

**ELECTRONIC  
ASSEMBLY**  
making things easy

# BRILLIANT AND BRAINY

## Touch and Operate on 3.2" and 4.3"

In recent years TFT displays came to the top for mobile phones, PDA and digital cameras. It stands to reason that more and more industrial applications like to be equipped with a coloured display, too. Thanks to the colours, process parameters or limit exceeds can be highlighted very easy. Simultaneously a coloured TFT display point up the valence and the product image of your equipment. Last but not least the non-reached brilliance and the excellent contrast satisfy even sophisticated guys immediately.

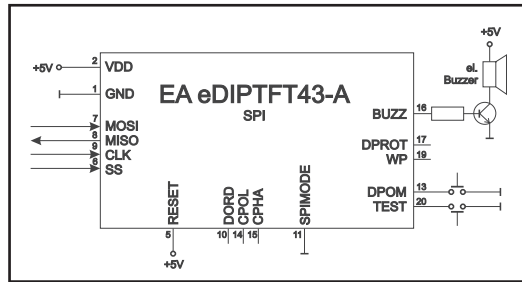


EA eDIPTFT43-ATP  
4.3" - 480x272x3

### Complex Driving ? No !

After the engineer had taken a closer look at the standard TFT panels on market, is often against those beautiful coloured TFT panels. The reason is, that the effort for

driving such a display is tremendous and requires something like a PC board. Cost for those are easy a multiple of price then for the display alone. Also the high current consumption for those boards and the long delay for power-up and boot sequence make these systems unhandy. In addition to that the required development effort for hard- and software is considerable. This is no longer profitable for a quantity of 100 or 1,000 pcs. The time consumption for such a development and the expense are clearly to high.



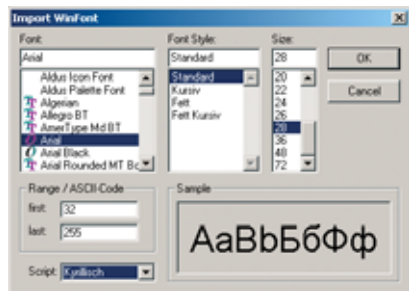
### The solution

But there is an alternative: using an *intelligent* display. This is quiet easy to integrate into a typical microcontroller system; because it's ready for operation immediately.

Power supply is wide range +3.3V~5V for the 3.2" version and +5V for the 4.3"

version. One of 3 interface RS-232, I<sup>2</sup>C and SPI can be used for communication. A lot of different character sets and graphic functions are already built-in and can be used immediately. The internal FLASH provides the possibility to store pictures up to 65,536 colours (JPEG, BMP , TGA and GIF incl. animation). Individual company logos are created with ease. Alterable character sets (Cyrillic, Hebrew, Arabic..) which are created easily by a free-of-charge Windows tool, make it near to join international markets.

Characteristics				
Value	Condition	EA eDIPTFT32	EA eDIPTFT43	Unit
Resolution		320x240x3	480x272x3	dots
Dimension		82x61	107x71	mm
Size		3.2	4.3	inch
Operating Temp.			-20...+70	°C
Operating Voltage		3.3-5V	5	V
Brightness (white)	w/o. Touch	700	500	cd/m <sup>2</sup>
	with Touch	550	410	cd/m <sup>2</sup>
Power Supply	Backlight 100%	160/120	180	mA
	Backlight off	37/25	80	mA



### The Touch Panel

Thanks to the touch panel and FLASH technology it is easy to create a simple and clear user guidance. This is because only those keys and functions are visible, that are needed in current mode of operation; double key strokes and deep menu structures are no longer necessary. This will prevent mal-functions from the beginning. A large number of functions do support the touch panel. Individual key size and key position are possible; even adjustments can be done by a quick defined slide bar. The large functionality gain this display to a complete HMI which is on the other hand very compact. The operating temperature range is good for the wide range of -20...+70°C. A long term availability and the high quality makes this display perfect for industrial, automotive and medicine applications.



As an accessory there is a black anodized mounting bezel made of aluminium available. With that the display can be easily mounted direct to front panel.

Also available is an USB programmer board for a smooth work with the display-internal FLASH memory.

More informations and full data sheets are available on our website at [www.lcd-module.com](http://www.lcd-module.com)

**ELECTRONIC ASSEMBLY**  
making things easy

Tel. +49-(0)8105-77 80 90

Fax +49-(0)8105-77 80 99

[info@lcd-module.de](mailto:info@lcd-module.de)

