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Modular HMI Systems

New offering



Users planning to adopt increasingly complex display and touch solutions now can chose among the intelligent interface boards and HMI products of LCD-Mikroelektronik.

Quick screen changes

The integrated ARM® Cortex® M3 processor provides sufficient power to display sophisticated designs and graphics. The board is equipped with abundant memory allowing screen changes in real time.

Standard or customized

We offer cost-effective HMI standard modules to control TFT displays from 3.5" up to 7" with resolutions 320x240 up to 1024x1024 pixel. Optionally our products can be customized within shortest time

The display interface outputs RGB data so that most displays with RGB interface can be driven without adjusting display driver parameters. Thus it is possible to equip your application with your preferred TFT display.



Produced in Germany

Our HMI boards are produced in Germany and designed by ourselves. No risk of sudden technical changes which are not approved by our customers.

Advantages

- Proven in practice
- Reasonably prized
- Modular system
- Freely configurable
- Inclusive development tools (exclusive compiler)

HMI according to your preference

We offer also complete devices, including housing and input device. The following input options are available:

- Membrane keypad
- Capacitive control buttons
- Resistive or capacitive touch panel

Do you need further information? Please feel free to talk to us; we will be pleased to help.



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Software and GUI Design

Our HMI-boards are equipped with an ARM processor offering a GUI framework free of charge. This framework provides amongst others:

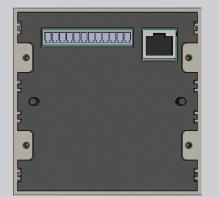
- 2D drawing facilities (lines, polygons, circles, ellipses, etc.)
- integration of images and graphics with 2-24 Bit color depth
- dynamic editing of integrated graphics (alpha channel, zoom, rotation, color variations and many more)
- included fonts and font converter to integrate true type fonts
- widgets (windows, buttons, checkboxes, selection fields and many more; alignment to your design via skinning)
- window manager, dialogs, GUI creator

On request we may also offer software development or may support you with your own software implementation.

Technical Data

The proven circuit design includes various interfaces and can be customized with little expense and effort.

CPU	ARM Cortex M3
Speed	Up to 100 Mhz
FLASH	512 kB
RAM	64 kB
Ethernet	10/100 Mbit
Rs232	9.6 - 115 kBaud
Rs485	9.6k - 1 MBaud
Screen size	3,5" - 10"
I2C & SPI	intern
GPIO	8 ports (extendable)
Resolution	320 x 240 - 1024 x 1024 pixel
Colors	2, 4, 8, 16, 256 and TrueColor



Graphic: View from rear on sample application with voltage supply, RS232, 8 GPIO ports and Ethernet

Contact

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