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What is "[Embedded - Microcontrollers](#)"?

"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "[Embedded - Microcontrollers](#)"

Details

Product Status	Active
Core Processor	MIPS32® M4K™
Core Size	32-Bit Single-Core
Speed	50MHz
Connectivity	I ² C, IrDA, LINbus, PMP, SPI, UART/USART
Peripherals	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT
Number of I/O	53
Program Memory Size	64KB (64K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	8K x 8
Voltage - Supply (Vcc/Vdd)	2.3V ~ 3.6V
Data Converters	A/D 28x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	64-VFQFN Exposed Pad
Supplier Device Package	64-QFN (9x9)
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/pic32mx120f064ht-50i-mr

GLCD AdapterTM

Manual

All Mikroelektronika's development systems feature a large number of peripheral modules expanding microcontroller's range of application and making the process of program testing easier. In addition to these modules, it is also possible to use numerous additional modules linked to the development system through the I/O port connectors. Some of these additional modules can operate as stand-alone devices without being connected to the microcontroller.

Additional Board



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GLCD Adapter Additional Board

The *GLCD Adapter* additional board is used to connect the pins of a microcontroller provided on a development system to a 240x128 GLCD. Connection between the additional board and a development system is established via two IDC10 female connectors supplied on ends of flat cables, whereas the GLCD is connected via a 1x22 male connector supplied on the additional board. In addition to this connector, there is also a potentiometer P1 used for display contrast adjustment provided on the board.

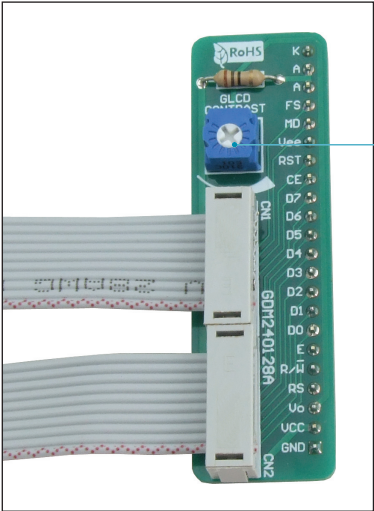


Figure 1: *GLCD Adapter* additional board

IDC10 female connectors provided on flat cables

Potentiometer used for GLCD contrast adjustment

1x22 male connector

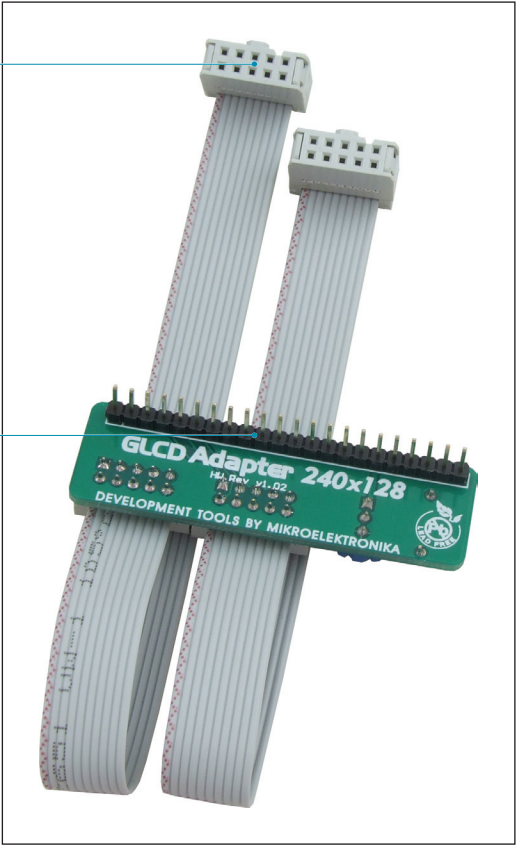


Figure 2: Back of the *GLCD Adapter* additional board

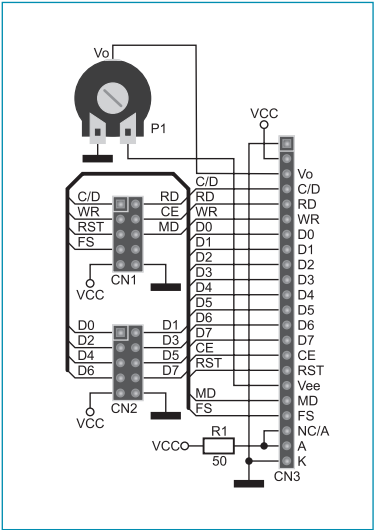


Figure 3: *GLCD Adapter* connection schematic

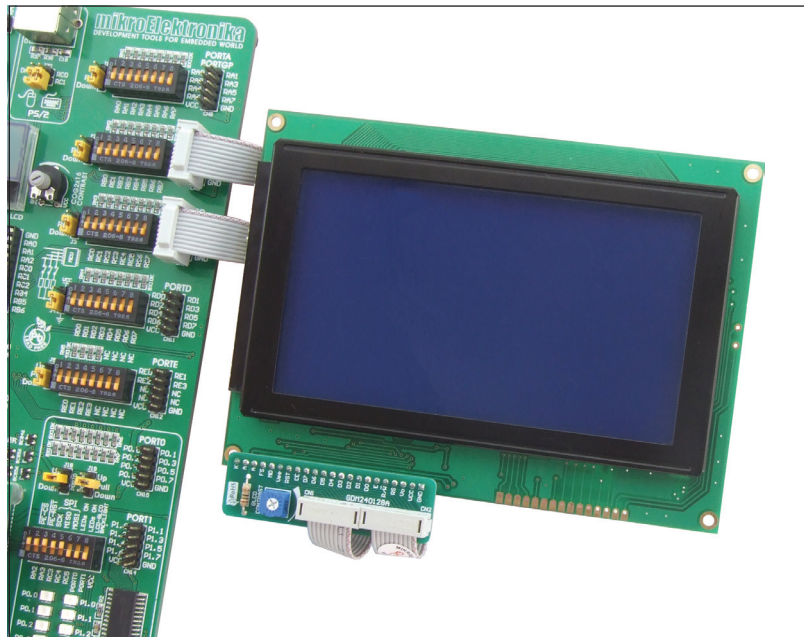


Figure 4: GLCD Adapter additional board connected to a development system

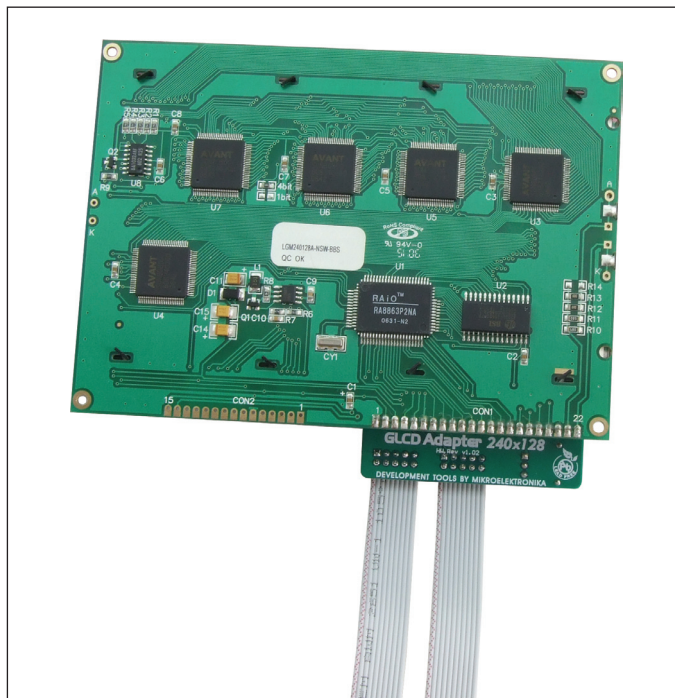


Figure 5: GLCD Adapter additional board connected to a GLCD display



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