Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

TouchPanel Controller™ 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

MikroElektronika
SOFTWARE AND HARDWARE SOLUTIONS FOR EMBEDDED WORLD   ...making it simple

TouchPanel Controller

The TouchPanel Controller additional board is used to connect a touch panel to a development system.

Key features:

- Connection established via an IDC10 connector;
- Low power consumption; and
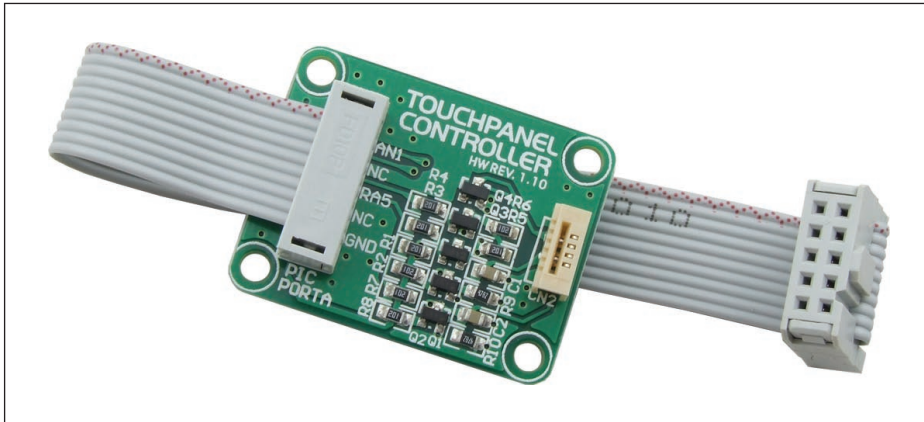- 3.3V or 5V power supply voltage.

Figure 1: TouchPanel Controller additional board

How to connect the board?

The TouchPanel Controller additional board can be easily connected to a development system via an IDC10 connector CN1 that is connected to a port of the development system. Connection between the additional board and a touch panel is established via the CN2 connector provided on the additional board.

How to use the board?

A touch panel is a transparent touch sensitive foil. In order to register any touch, it is necessary to connect the touch panel to this additional board. The principle of the touch panel operation is based on the voltage change caused by a touch or pressure applied to the touch screen. Voltage change detection is enabled due to the touch screen design. It is composed of two flexible sheets coated with a resistive material separated by an air gap. In order to detect a contact, it is necessary to apply voltage to one of these two sheets (DRIVEA for example). When contact is made, the two sheets are pressed together and the second sheet measures the voltage in the pressed point as a distance along the first sheet. The measured distance is referred to as X-axis (BOTTOM). As soon as this data is aquired, the same voltage is applied to the second sheet (DRIVEB). Now, the first sheet measures the distance referred to as Y-axis (LEFT).

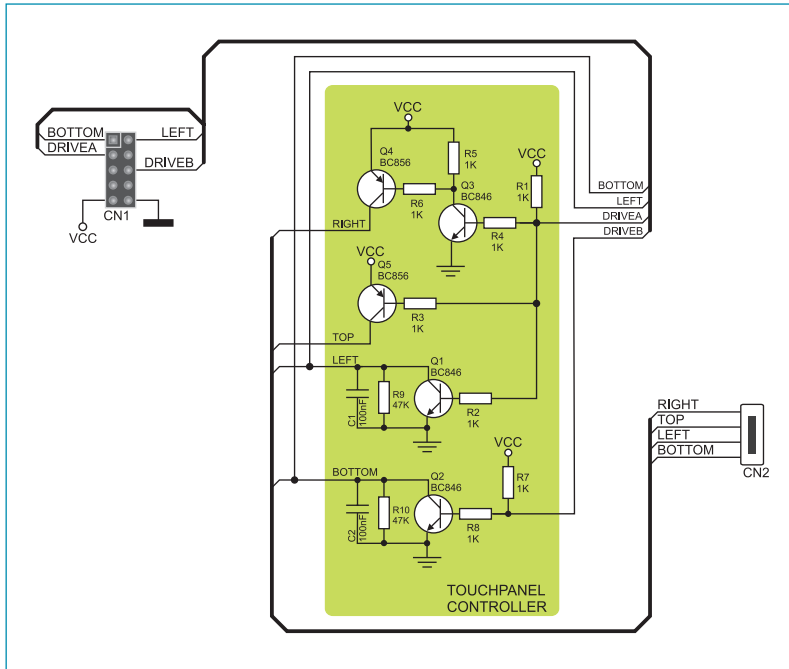Here you can find examples for the TouchScreen Controller board:
http://www.mikroe.com/eng/products/view/184/touchpanel-controller-board/

Figure 2: TouchPanel Controller board connection schematic

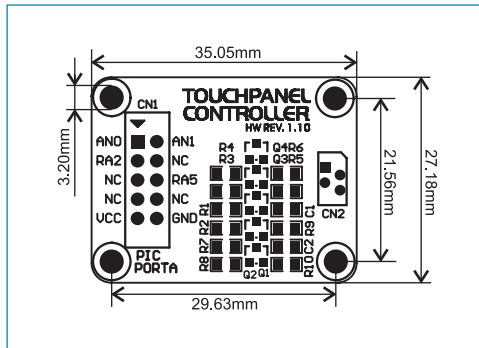**Figure 3**: Dimensions of the additional board

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If you are experiencing some problems with any of our products or just need additional information, please place your ticket at www.mikroe.com/en/support

If you have any questions, comments or business proposals, do not hesitate to contact us at office@mikroe.com