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

RTC PROTO ™

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

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

RTC PROTO (Real time clock PROTO)

The *RTC PROTO* enables the microcontroller to keep the real time and date, providing the alarm function. It is used to generate an interrupt. Due to baterry cell the *RTC PROTO* enables the microcontroller to keep the real time when the power supply is off. The *RTC PROTO* is linked to the development system by connecting 1x5 male connector provided on the additional board to the proto board provided on the development system's ports. The *RTC PROTO* communicates to the microcontroller by using the serial I2C interface. The *RTC PROTO* is placed on the development system's port that is connected to the built-in I2C microcontroller module.
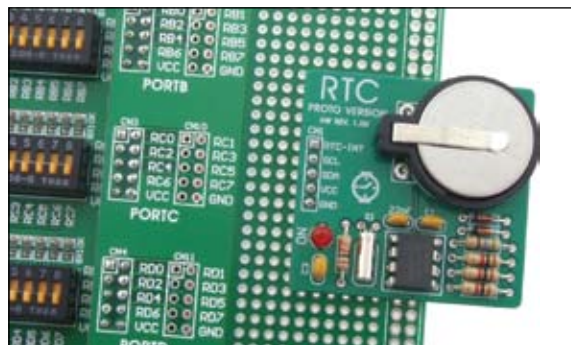

Figure 1: *RTC PROTO*

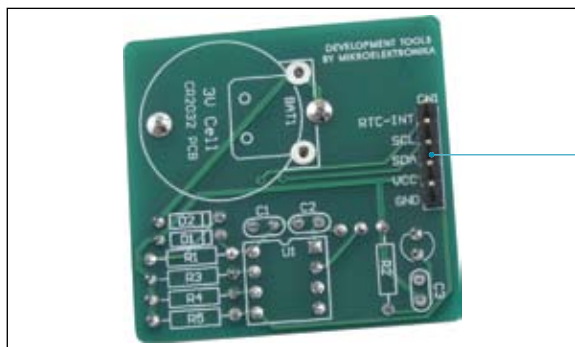**Figure 2:** *RTC PROTO* placed on the development system

Figure 3: *RTC PROTO's* back side

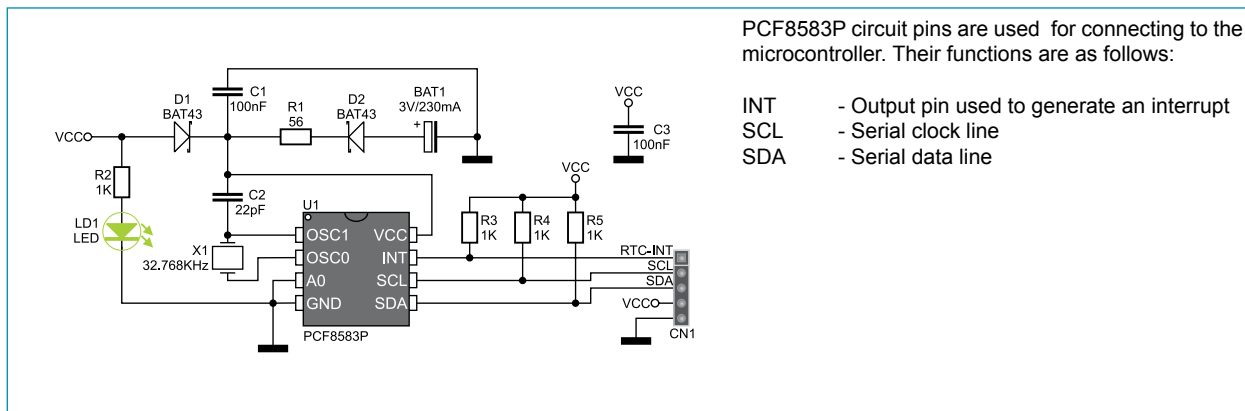1x5 male connector is used for connecting the additional board to the development system via proto board

Figure 4: *RTC PROTO* connection schematic

PCF8583P circuit pins are used for connecting to the microcontroller. Their functions are as follows:

INT — Output pin used to generate an interrupt
SCL — Serial clock line
SDA — Serial data line