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# SHT1X™

## 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



# SHT1X

The SHT1X additional board is used to measure temperature and relative humidity.

## Key features:

- Serial communication;
- Measuring humidity (0 to 100%);
- Measuring temperature (-40 to +125C°)
- Low power consumption; and
- 2.4 to 5.5V power supply voltage.

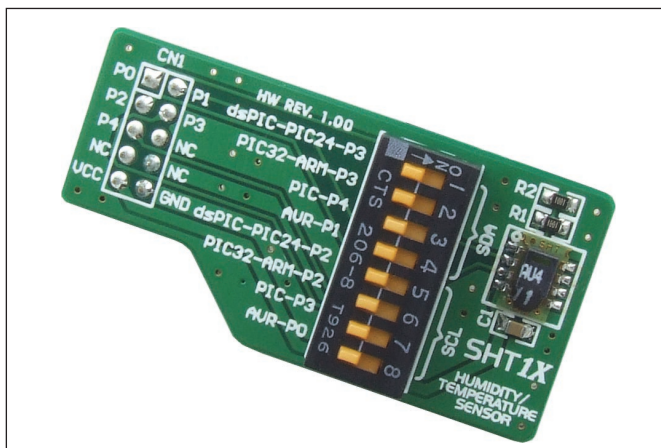


Figure 1: SHT1X additional board

## How to connect the board?

The SHT1X additional board can be easily connected to a development system via 2x5 connectors. The board communicates with the microcontroller supplied on the development system via two serial communication lines: SDA - serial data transfer and SCL - serial clock. In order to establish connection between them, it is necessary to set the appropriate switch on DIP switch SW1 to the ON position. Which of these switches will be set ON depends on the development system in use, table 1.

|       | SDA   | SCL    |
|-------|---|--------|
| PIC   | 3 (P4)  | 7 (P3) |
| dsPIC | 1 (P3)  | 5 (P2) |
| PIC24 | 1 (P3)  | 5 (P2) |
| PIC32 | 2 (P3)  | 6 (P2) |
| AVR   | 4 (P1)  | 8 (P0) |
| ARM   | 2 (P3)  | 6 (P2) |
|       | Position of switches on DIP switch SW1 for appropriate dev.system |        |

Table 1

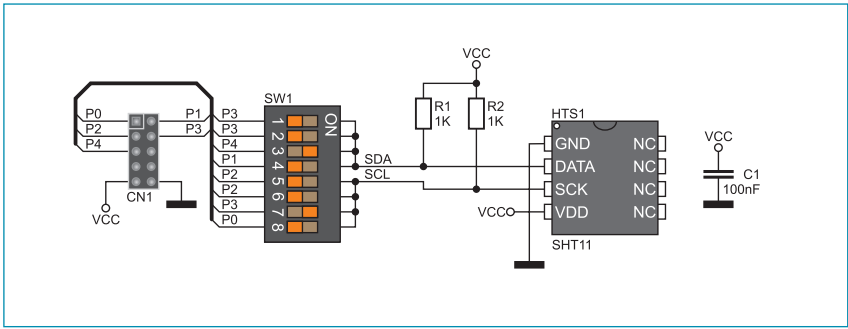


Figure 2: SHT1X additional board connection schematic

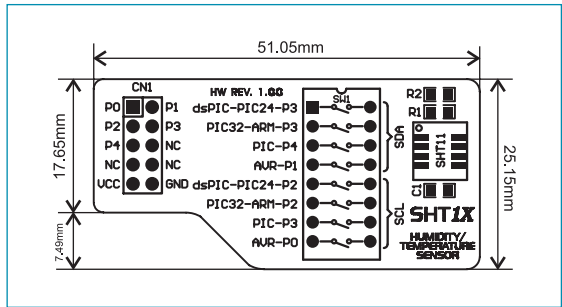


Figure 3: Dimensions of the SHT1X additional board

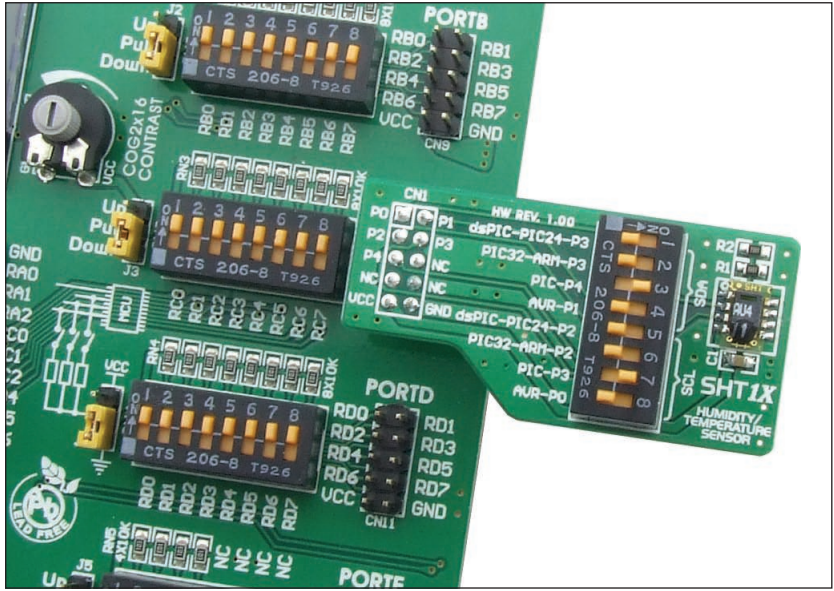


Figure 4: Additional board connected to a development system

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