

4.4.3.3 I2C Driver

The I2C Driver is the same we have programmed for the solar project, because we already tested it during that project. So we were sure our driver works and no changes had to be done. The files are named "i2cdriver".

It provides various functions to transmit data with the I2C standard. To use this functions the controller has to be initialized once in the main program and before each transfer the method "I2CDriver open()" has to be called with the needed speed setting of the used I2C standard. After that the transfer functions can be called with an I2C address and either a single value or multiple ones to be written or read. Finally the I2C controller has to be closed with the "I2CDriver close()" method.