**Initial Flashing Guide**

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1. Objective

This document describes how to setup and flash relevant firmware/bootloader for initial board setup at factory.

1. Prerequisites

The following H/W and S/W are required to setup boards and flash relevant firmware.

* ATMEL ICE   
  

*Note: Although AVR ISP can be used for the setup/flashing work, it isn’t clear at the moment whether ZB-HART will shipped with ISP headers attached on the board. So in this document, everything is described assuming that ATMEL ICE is used for the setup works.*

* ATMEL Studio 7

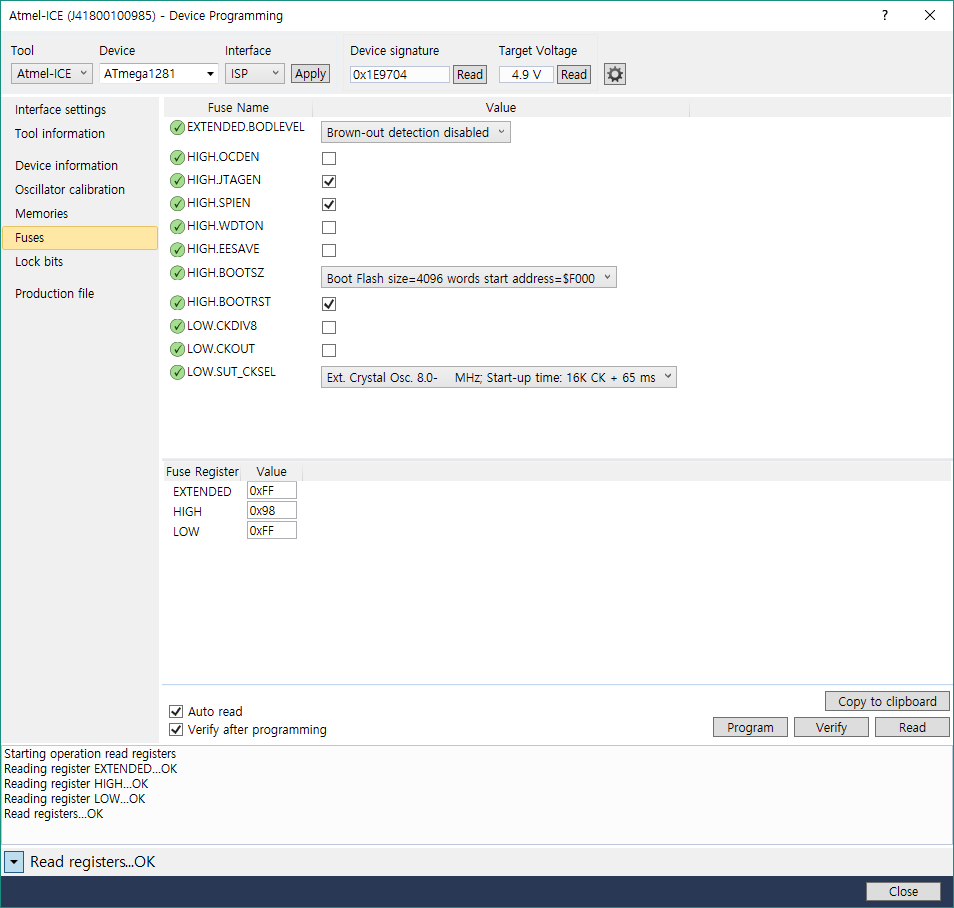


*Note: Any AVR Flashing Program that supports ATMEL ICE JTAG/ISP interface can be used. But in this document, for convenience’s sake, everything is written assuming that ATMEL Studio 7 is used for the setup works.*

1. Fuse Bits

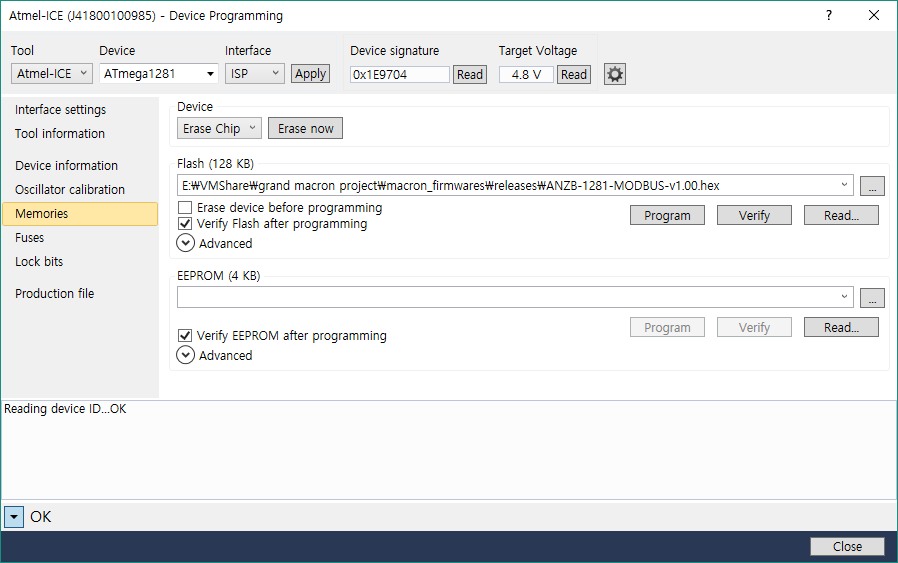
For proper bootloader operation, Fuse bits for HART/ANA/485 boards should be set up as described in the following pictures.

For ZB-HART(ATMEGA 1280) and ZB-ANA/ZB-485(ATMEGA 1281)



1. Flashing
   1. ZB-ANA/ZB-485
2. Chip Erase

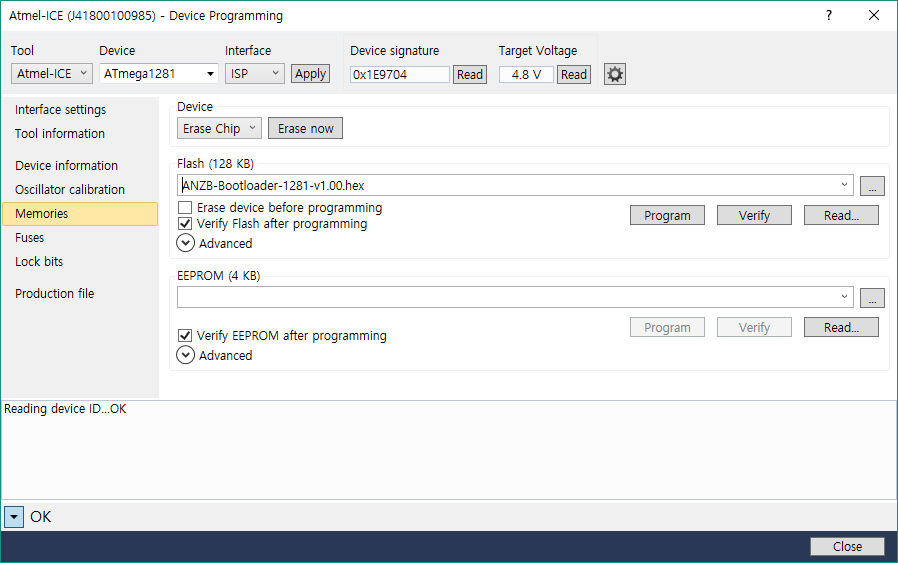
Click Erase now to erase the whole chip



1. Choose

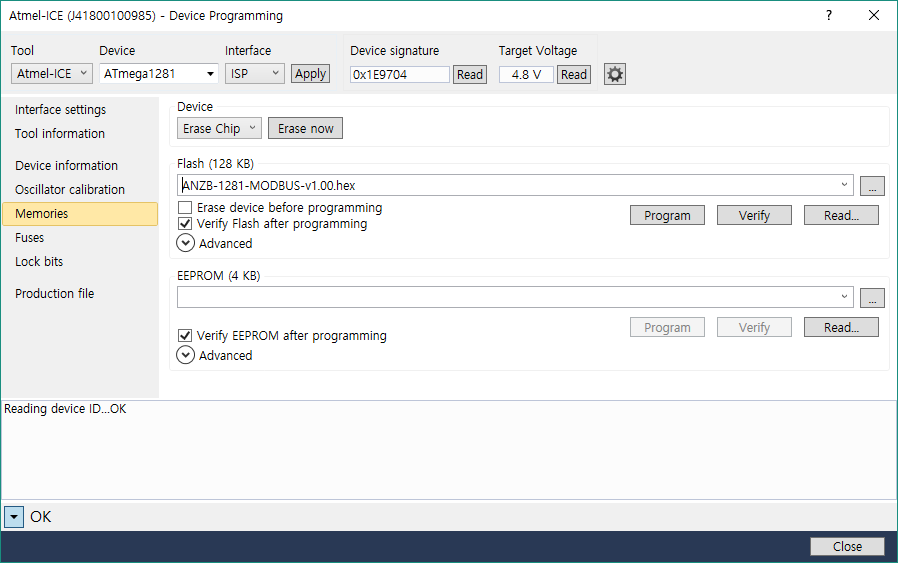
ANZB-Bootloader-1281-v1.00.hex

1. Flash Bootloader



2. Click Program

1. Flash Firmware



2. Click Program

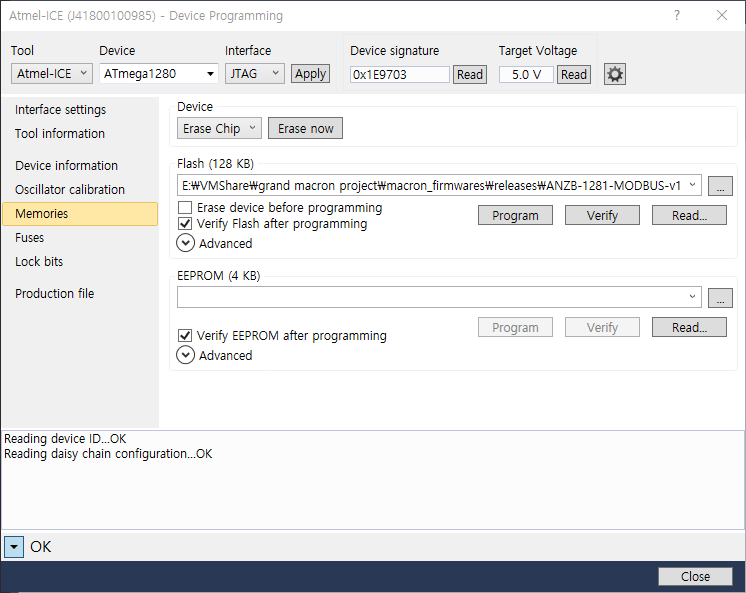
1. Choose

ANZB-1281-MODBUS-v1.00.hex

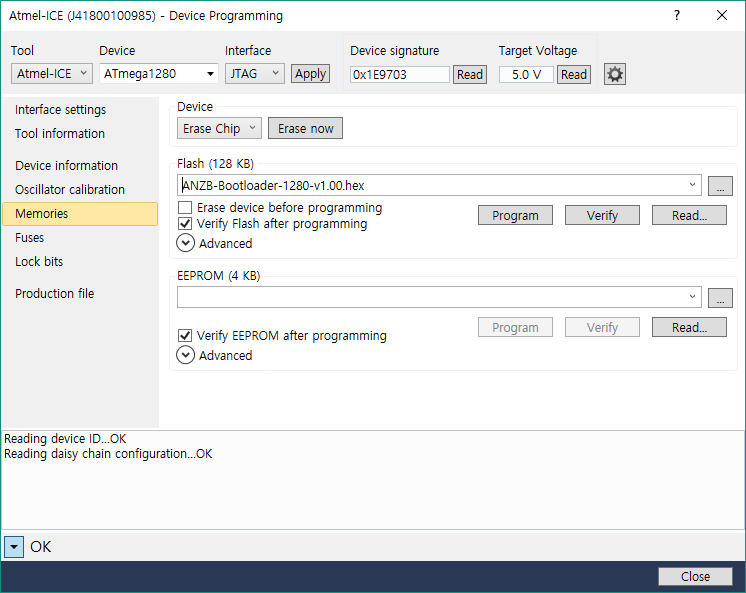
* 1. ZB-HART

1. Chip Erase

Click Erase now to erase the whole chip



1. Flash Bootloader

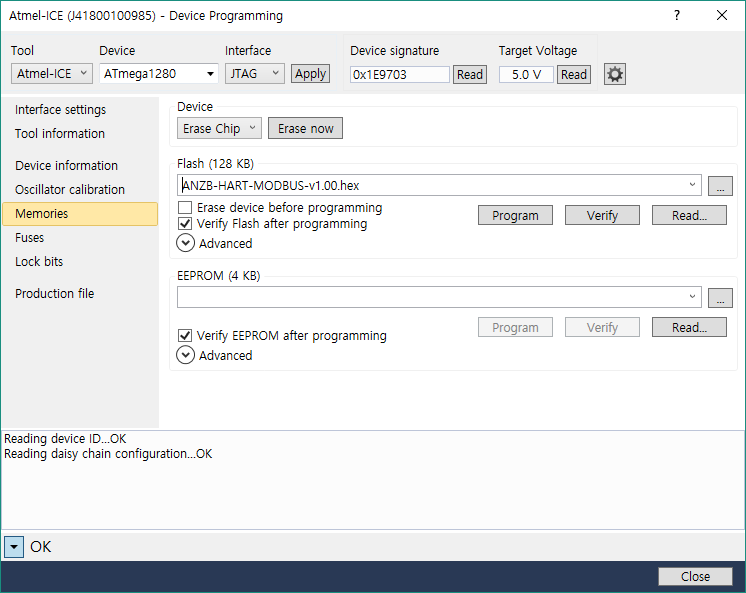


2. Click Program

1. Choose

ANZB-Bootloader-1280-v1.00.hex

1. Flash Firmware



2. Click Program

1. Choose

ANZB-HART-MODBUS-v1.00.hex