HOLTEK BC68F3132 Secondary Production Tool User Guide

Contents

HOLTEK BC68F3132 Secondary Production Tool

Product Information

Specifications:

- **Tool Name:** BC68F3132 Secondary Production Tool
- **Revision:** V1.00
- **Date:** April 15, 2024

Product Usage Instruction

Introduction to the Tool and Installation

Tool Introduction:
Holtek provides the BC68F3132 Secondary Production programming tool, which allows programming of the Manufacturer's Code and Serial Number. It simplifies the programming process for users.

Tool Features:

- Intuitive operating interface
- Simplified programming interface
- Requires filling in the Manufacturer Code and Serial Number to continue the programming action

Hardware Installation:
Connect the writer to your personal computer via a USB cable. Use either the e-Socket: ESK16NSOPC adapter or the programming interface ICP (e-CON12C) to program the chip.

Quick Start

Preparation before programming:
Ensure that the chip has been programmed with the program produced by RF Workshop with the Manufacturer Code and Serial Number set to 0x00 and the chip is not locked.

If the e-WriterPro connection fails, check the USB connection and hardware wiring. The normal connection setup is vital for successful programming.

BC68F3132-2nd Production Function Description

- **Toolbar:** Provides various functions for programming and configuration.
- **Parameter configuration and status display:** Displays information related to the programming process and allows setting of writer functions.

FAQ

Q: What should I do if the program button is highlighted and cannot be used?
A: Check the USB connection and hardware wiring to ensure a normal connection.

Introduction to the Tool and Installation

Tool Introduction

- Holtek provides the BC68F3132 Secondary Production programming tool, through which you can program only the Manufacturer Code and Serial Number.
- This article describes the operation of the BC68F3132 Secondary Production programming tool to help users correctly program the chip.
- In the following description, the tool BC68F3132 Secondary Production will be referred to as BC68F3132-2nd Production for brevity.

Tool Features

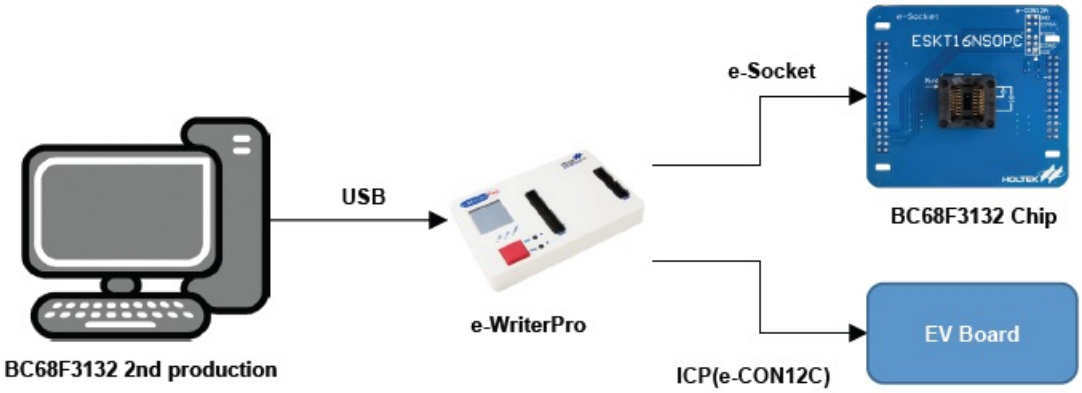
- Intuitive operating interface
- Simplify the programming interface, and fill in the Manufacturer Code and Serial Number to continue the Program action.

System Requirements

- PC with USB 2.0 or later
- Operating system: Microsoft Windows® 10 or later

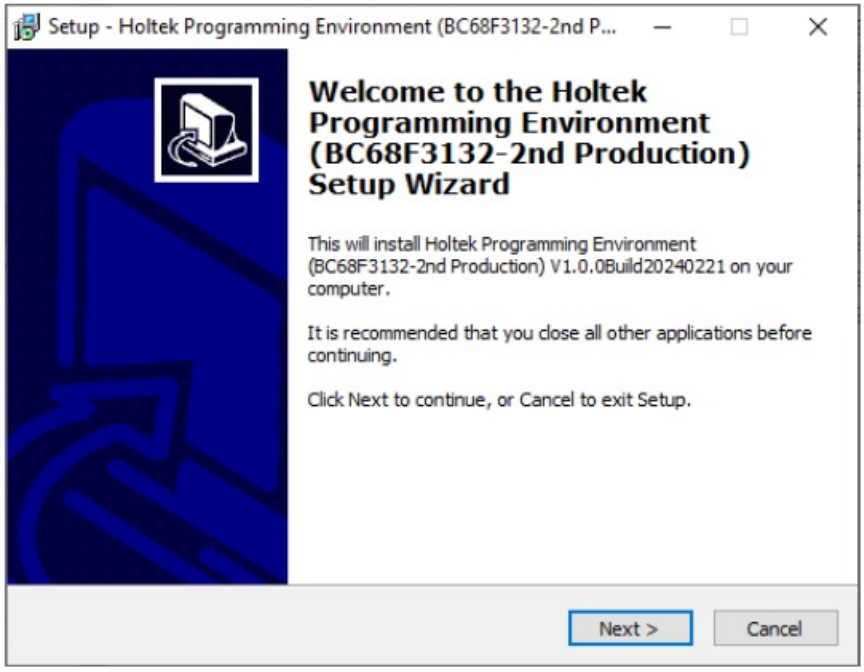
Hardware Installation

Use a USB cable to connect the writer to the USB port of your personal computer, and use the adapter e-Socket: ESK16NSOPC or the programming interface ICP (e-CON12C) to program the chip.

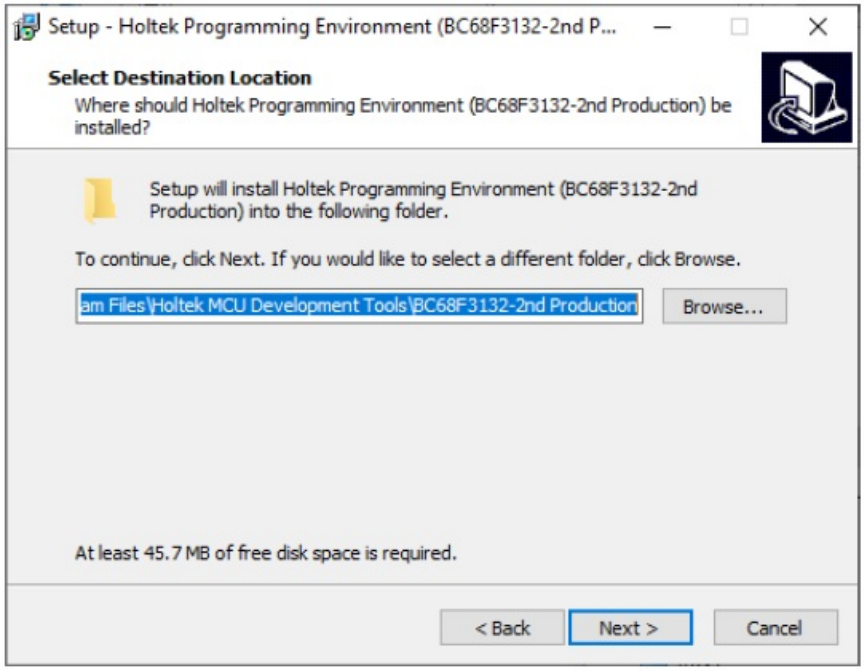


Software Installation

- **Step 1**
  Execute the BC68F3132-2nd Production installing program “BC68F3132-2nd ProductionV1.0.0Build20240222Install”. (As the version and release date of the supplied software may be different from this, use the latest version)
- **Step 2**
  Installation Welcome Window as shown below, click the Next button.

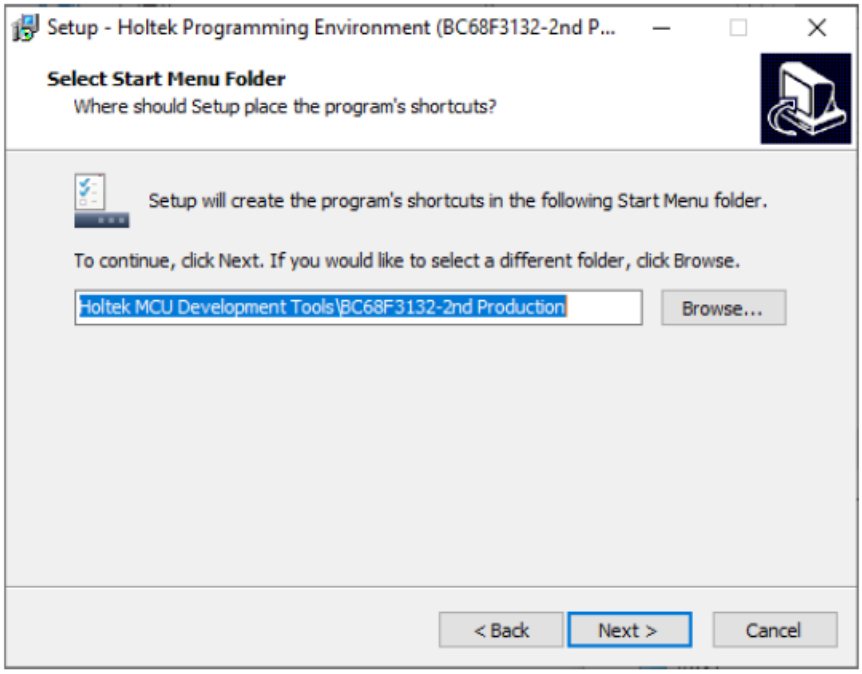


- **Step 3**
  Specify the BC68F3132-2nd Production path as shown below. It is suggested to use the default path, and then click the Next button.



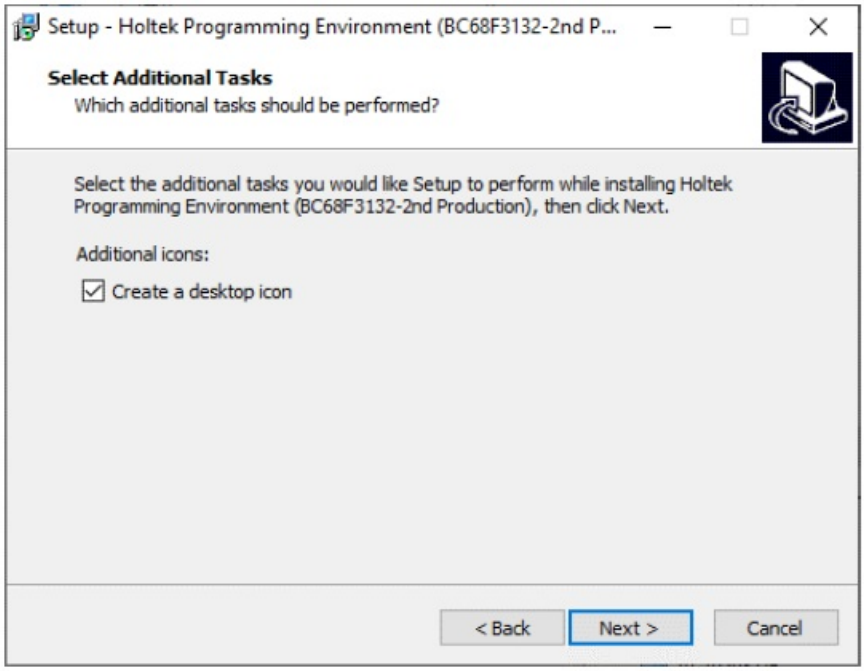
- **Step 4**

  Specify the path of the program's shortcuts as shown below. It is suggested to use the default path, and then click the Next button.



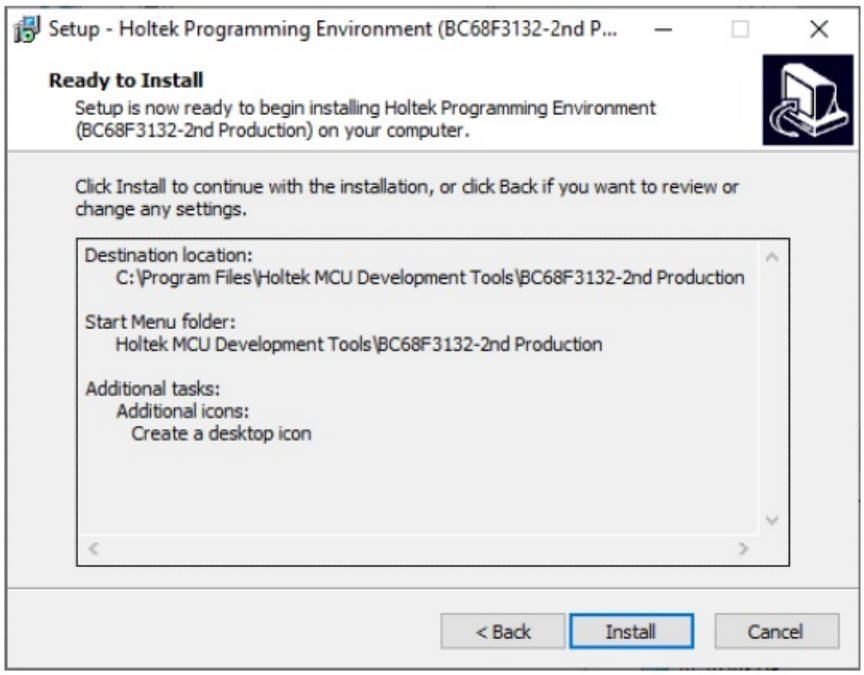
- **Step 5**

  Select the option to generate a desktop shortcut as shown below. Then click the Next button.



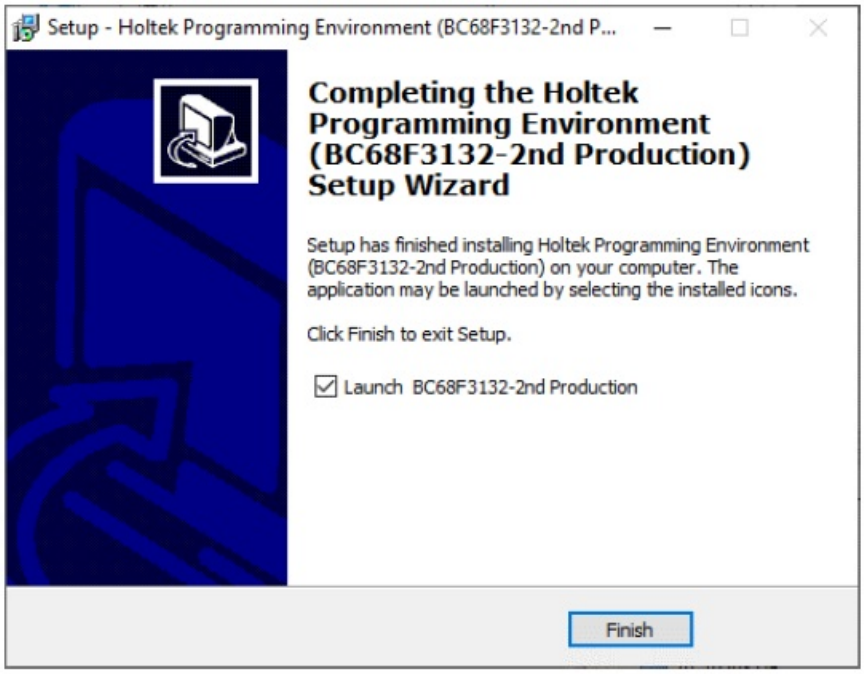
- **Step 6**

  Check the installation details and then click the Install button to start the installation as shown below.



- **Step 7**

  Finish installation. Click the Finish button to exit the installation process as shown below.



Hardware Configuration

The name of each writer's hardware section is shown below.

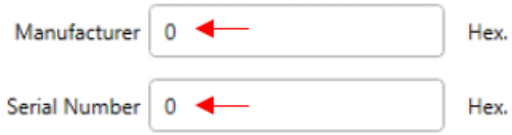
Programming Adapter Connector	Programming Pins
(Status LED) OK	Normal Status LED
(Status LED) Ready/Busy	Ready or Busy Status
(Status LED) Fail	Fail Status LED
USB Connector	Connect to PC via USB cable (On-Line mode)
LCD	Displays information and sets the writer's functions

The adapter "e-Socket: ESK16NSOPC" is used with the e-WriterPro writer, as shown below

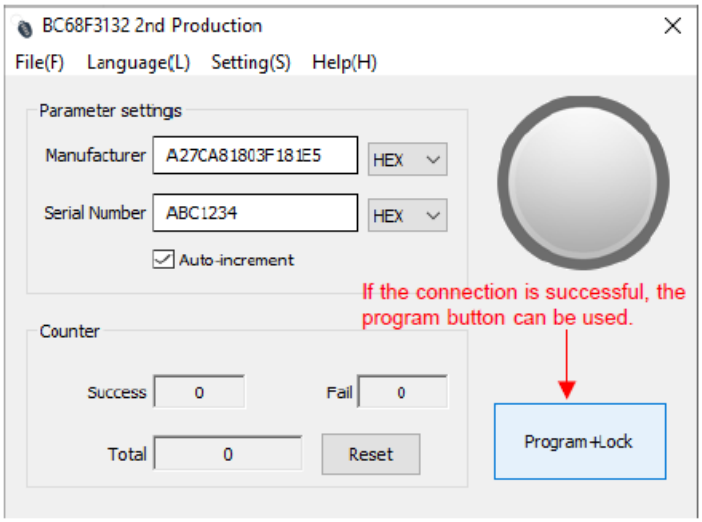
Quick Start

Preparation before programming

Before programming the chip, you must first confirm that the chip has been programmed with the program produced by RF Workshop (the Manufacturer Code and Serial Number of the program must be 0x00) and chip is not locked.



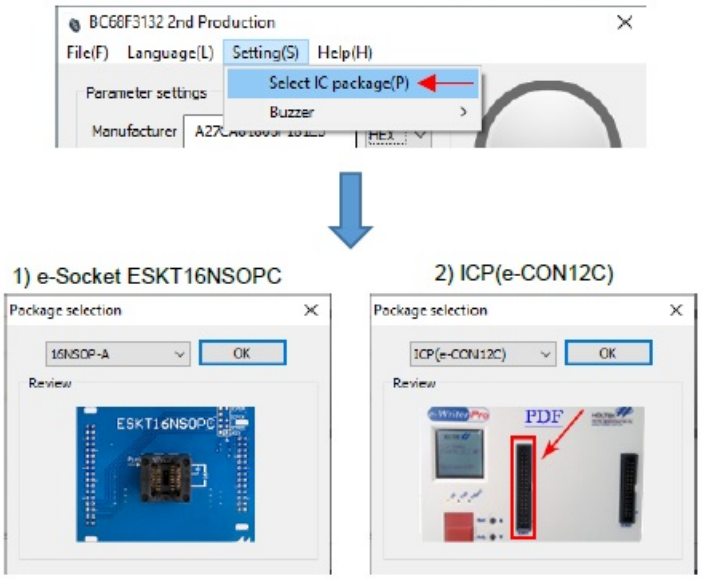
If the e-WriterPro connection fails, the program button will be highlighted and cannot be used. Please check whether the USB connection and hardware wiring are normal. The normal connection is as shown below.



After confirmation, follow the steps below to easily complete the programming.

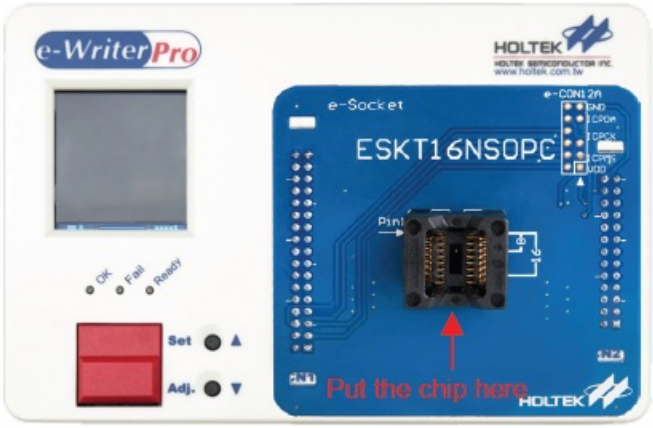
Select IC package

To choose the connection method between e-WriterPro and the chip, there are two main ways to use e-Socket (ESKT16NSOPC) and ICP(e-CON12C), as shown in the figure below.



1. **e-Socket (ESKT16NSOPC) Hardware connection method**

   Place the e-Socket (ESKT16NSOPC) at the intersection of the e-WriterPro's programming adapter and place the chip to be programmed, as shown below.

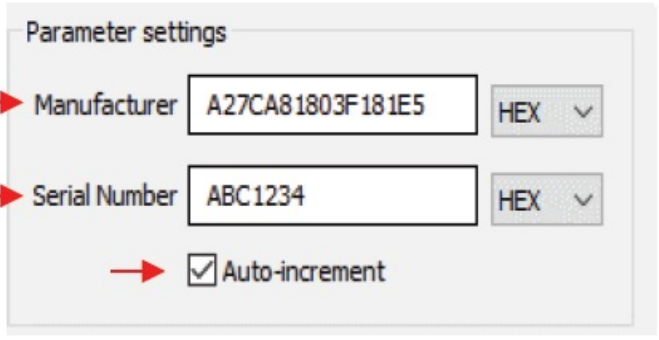


2. **ICP(e-CON12C)**

   Please refer to Appendix A for the e-WriterPro ICP programming pin diagram.

Parameter configuration

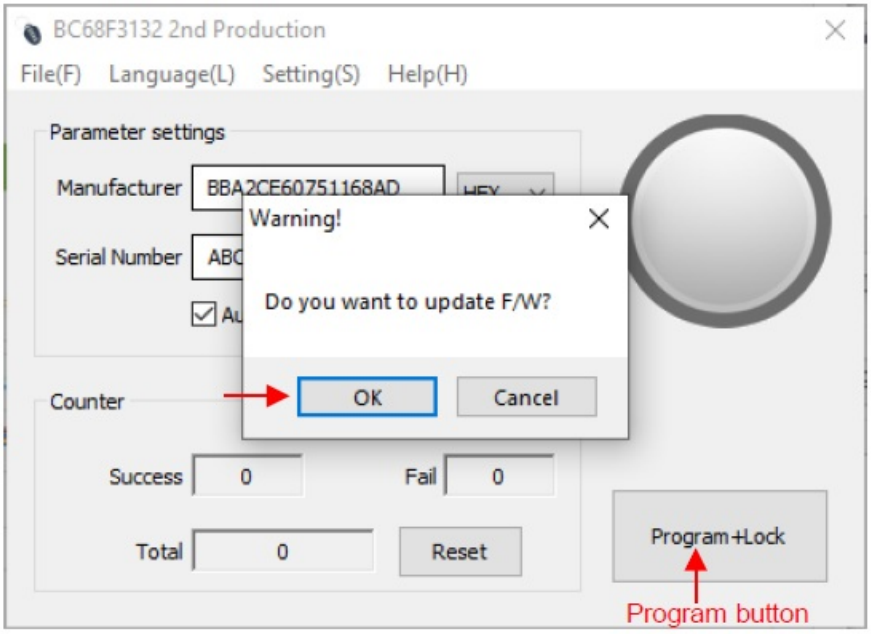
Fill in the parameters Manufacturer Code and Serial Number, and check whether the serial number automatically increases after successful programming, as shown below.



Program & update Writer F/W

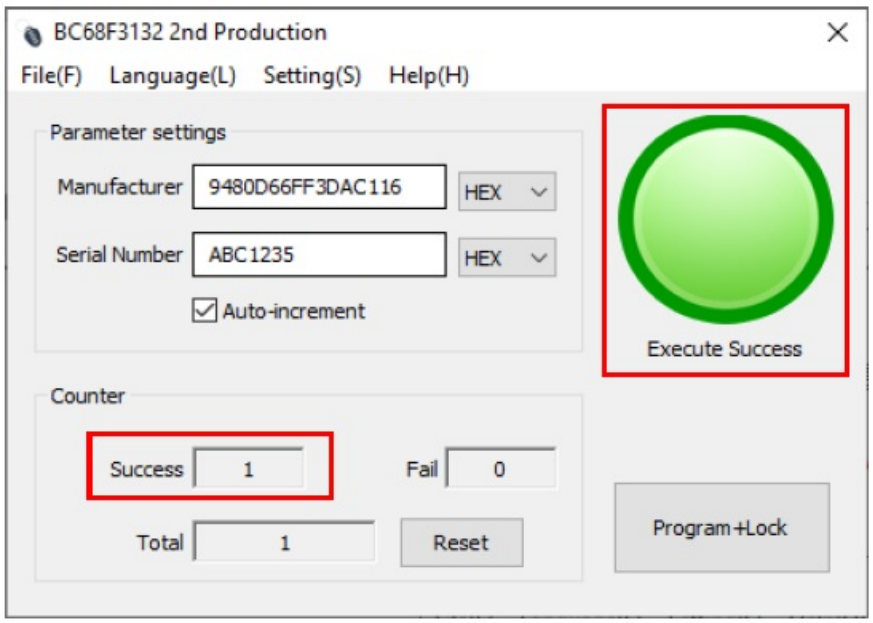
Press the program button. If the Writer needs to update F/W, a prompt will pop up. Press OK to update F/W and

program.



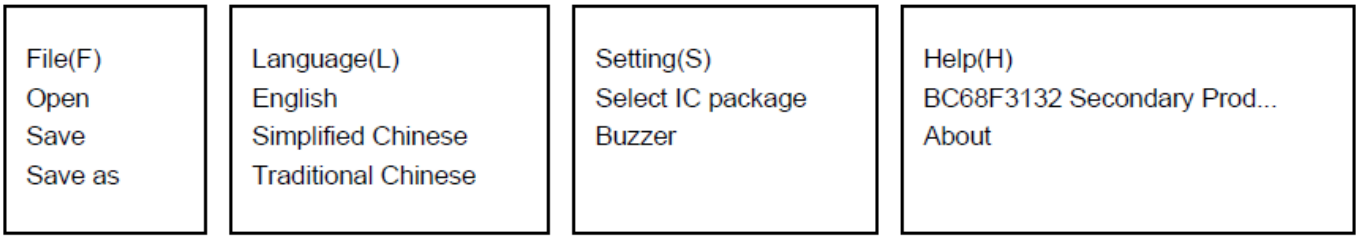
Program successfully

- When the programming is successful, Success count +1, the green light and the words, execute success, will appear.
- (Note: Successful program will lock the chip. If modification is needed, HOPE3000 should be used to re-burn the complete program and then modify it again.)



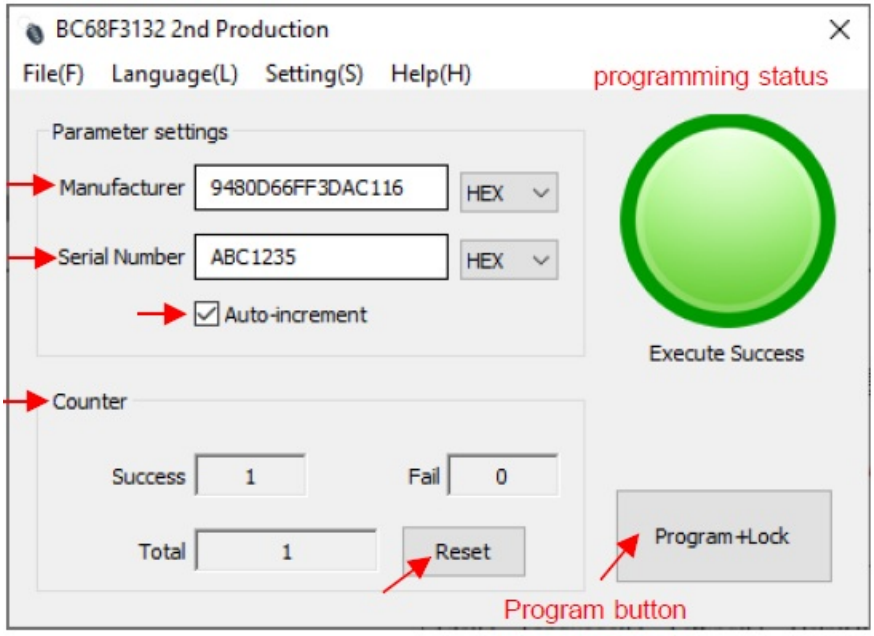
BC68F3132-2nd Production Function Description

Toolbar
The toolbar has four menus: File, Language, Settings, Help. After clicking the menu, the toolbar will expand, as shown below.



- **File (F):**
  Open, save, and save as the configuration file. The configuration file includes Parameter Settings and UI Interface Settings, and its file extension is ".b2p".
- **Language (L):**
  Language supports Traditional Chinese/Simplified Chinese/English.
- **Setting (S):**
  Select IC package: Select the connection method between e-WriterPro and the chip.
  - **16NSOP-A:** Using e-Socket, ESKT16NSOPC
  - **ICP(e-CON12C):** Using ICP programming pins, e-WriterPro ICP programming pin diagram Buzzer: Set e-WriterPro buzzer action
- **Help(H):**
  - **Tool manual & PDF**
    About: Platform version information

Parameter configuration and status display



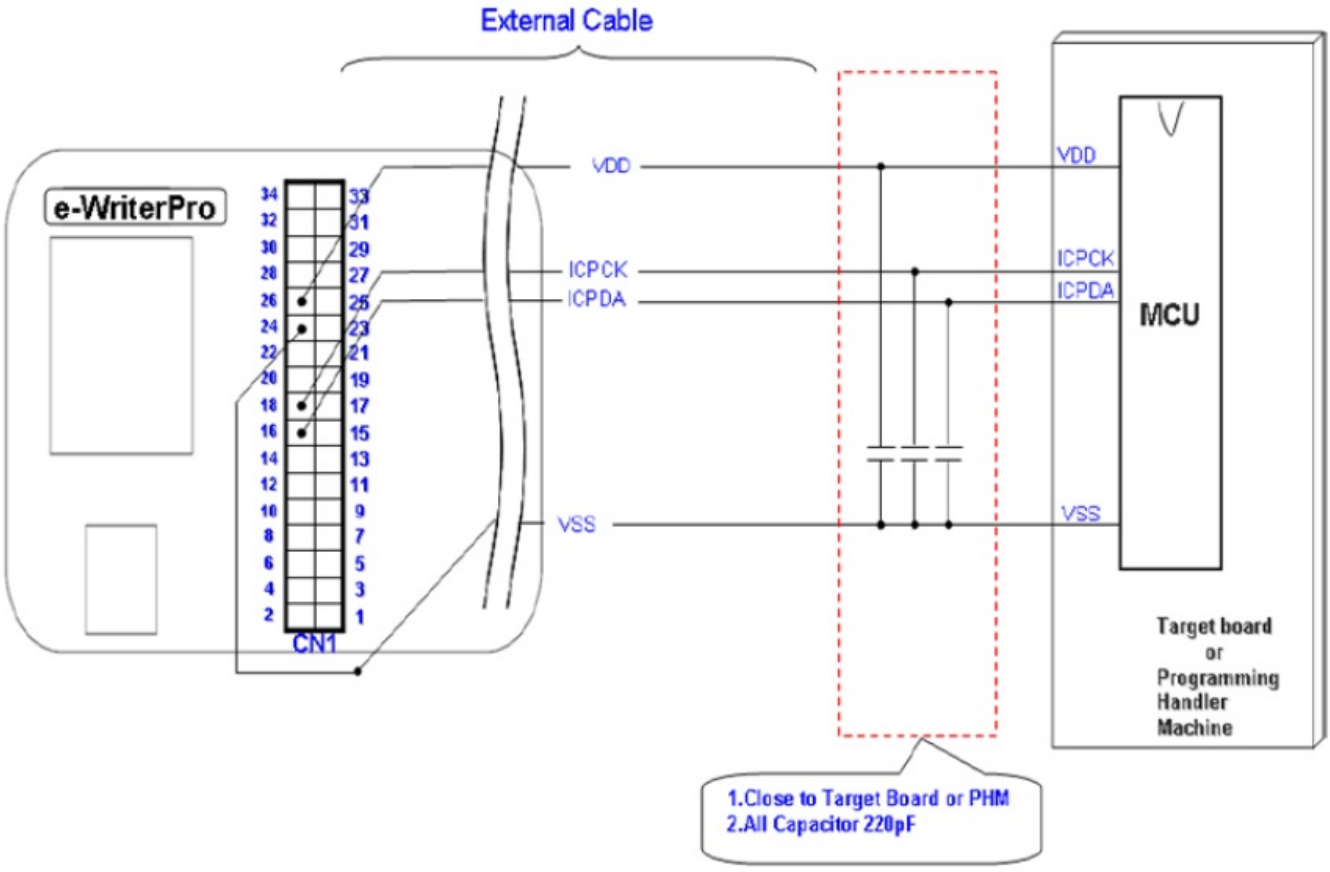
- **Manufacturer:** It is a 64-bit value determined by the user, usually classified by different brands. This value will be generated randomly every time you open the software. If there is a custom value, please note that it must be entered manually.
- **Serial Number:** It is a 28-bit value specified by the user. It is mostly used to identify different transmitting devices. You can check "Auto-increment". After successful programming, the serial number will automatically +1, so that different devices can be distinguished during production.
- **Auto-increment:** After checking "Auto-increment", the "Serial Number" will automatically +1 after successful

programming, so that different devices can be distinguished during production.

- **Counter:** To record the number of successful or failed programs, you can use the reset button to reset the count. The successful programming counter value operates independently and will not change as the file is read.
- **Reset:** Reset the number of counters.
- **Programming status:** Brief description of the programming result, success or failure (simple reason), success is a green light, and failure is a red light.
- **Program button:** When this button is pressed, the Manufacturer Code and Serial Number will be written into the corresponding positions, and the chip will be locked after completion.

Appendix

e-WriterPro ICP programming pin diagram: ICP(e-CON12C)



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Documents / Resources

	HOLTEK BC68F3132 Secondary Production Tool [pdf] User Guide BC68F3132 Secondary Production Tool, BC68F3132, Secondary Production Tool, Production Tool

References

- User Manual