VEICHI Burner Operation Manual

1 Product Overview

Thank you for using our VEICHI burner model AC300SL02. This burn-in tool is suitable for our a variety of controllers in our company. This burner is compatible with the original single-board burner card AC300SL (T-shaped burner card) on the basis of the upgrade, the new USB2, for external 5V power supply interface, to facilitate the use of our part of the large power consumption of the control board burner upgrade, the physical diagram as shown in Figure 1.1.

Figure 1.1 Hardware physical diagram

1.1 Product Specification

- USB1： Adapted to PC computer USB port, ≤500mA.
- USB2： External power supply, using a 5V power adapter, ≤ 1A.
- Support for target board voltage: 5V.
- Target board current: ≤ 400mA; target board power consumption over 400mA recommended to use USB2 auxiliary power supply.
- Operating temperature: -20 ℃-50 ℃.
- Storage temperature: -25℃-60℃.

2 Hardware Description

2.1 Interface Description

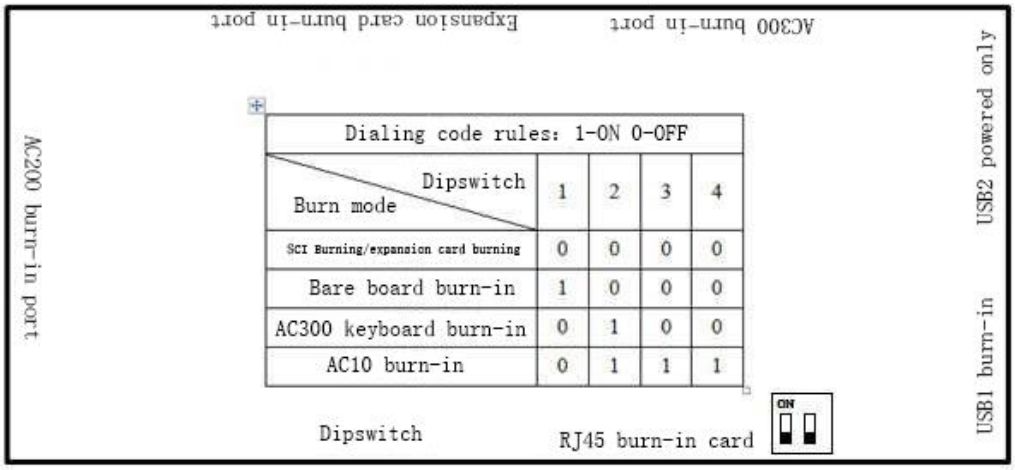


Figure 2.1 Schematic diagram of the burner interface

Interface Definition	Function Introduction
Dipswitch	Selector switch for different burn-in modes
AC300 Burn port	Burning AC300, AC310, ACP30, etc. (terminal definition should be the same as AC300CON)
Expansion card Burn-in port	Burn AC300IO card, CAN card, PG card, etc. (terminal definition should be consistent with IO card)
AC200 Burn port	Burn AC200, AC80C (terminal definition should be the same as AC80CCON)
RJ45 Burn port	Burn-in of AC300 keyboard and AC10 control board (terminal definitions must be identical to keyboard KBD300-25)

2.2 Wire arrangement description

AC300SL02 burner is shipped with 3 cables by default, which are used for AC300 burn-in port, AC200 burn-in port and expansion card burn-in port. Customers need to provide their own network cable to match the RJ45 burn-in port, and 2 TYPE-C data cables to match USB1 and USB2.

AC300 burn-in port cable

AC300 burn-in port cable, 2X6P, both ends female

AC200 burn-in port cable

AC200 burn-in port cable, 2X9P, both ends female

Expansion card burn-in port liner

Expansion card burn-in port cable, 2X6P, one end male, the other end female

Bring your own TYPE-C data cable and network cable

3 Burning instruction

3.1 Introduction to Dialing Code Specification

The specific dip code rules for the burner mode are printed on the surface of the burner housing, please follow the dip code rules before burning. Please adjust the position of the blue dip switch in advance before burning.

Dialing code rules: 1-ON 0-OFF				
Burn mode \ Dipswitch	1	2	3	4
SCI Burning/expansion card burning	0	0	0	0
Bare board burn-in	1	0	0	0
AC300 keyboard burn-in	0	1	0	0
AC10 burn-in	0	1	1	1

Example: AC300 control board SCI burn-in mode 	Blue dipswitch to 0000
Example: AC300 control bare chip burn-in mode 	Blue dipswitch to 1000

3.2 USB Interface Description

Some of our control boards are now using dual MCU, some of the power consumption has exceeded 500mA, at this time some of the computer's The power supply capacity of the USB interface is obviously insufficient, which often leads to burn-in failure, so we have added a new USB2 port for additional power supply to reduce the power consumption of the computer's USB port and ensure the reliability of burn-in. Therefore, we have added a new USB2 port for additional power supply to reduce the power consumption of the USB port of the computer and ensure the reliability of the burn-in. For AC300 inverter and other single MCU control boards, only USB1 can be used, and there is no need to use USB2 for external power supply.

 The USB location is clearly marked on the bottom of the object	USB1: Burning port. USB2: external 5V power supply port, not for burning. USB2: recommended to use 5V power adapter or mobile power, not to be plugged into the same computer as USB1.

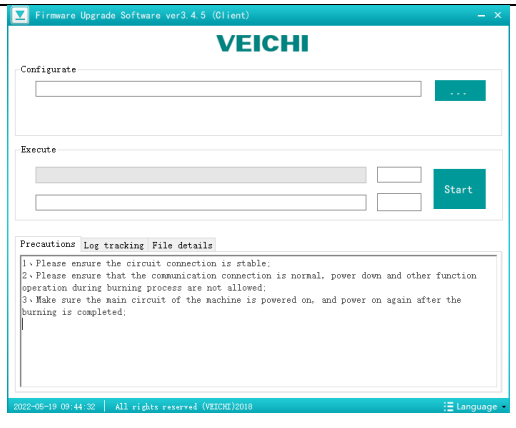
3.3 USB2 Interface Supplement

The number of USB plugging and unplugging is limited (maximum 10,000 times), you can use USB2 When USB1 is damaged, USB2 can be used as a backup burn-in interface, and it should be noted that USB1 can no longer be connected to the TYPE-C data cable.

	When USB1 is damaged, open the top cover of the controller and turn the internal black dip switch to ON.USB2 can be used as a backup burn-in port.The function is the same as USB1. Note: When the dip code is turned ON, USB1 and USB2 are in conflict.The computer can only use one of them.

3.4 Burning software description

Please use the burning software released by our software platform, please pay attention to the upgrade instructions on the side of the software platform in time. AC300SL02 is still using the original software platform released by the burning software, no change has been made.

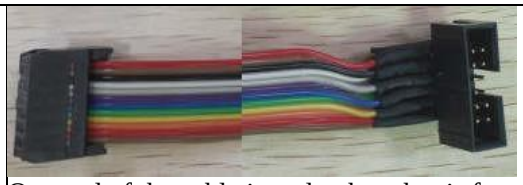
	

4 Burning instruction

4. 1 Expansion card burn-in port special instruction

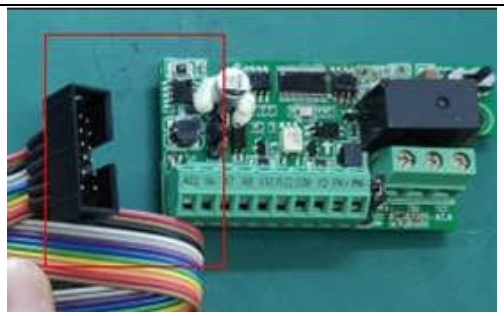
Because most of our expansion cards do not have anti-dumbing design when they are designed with their own terminal selection. You need to pay extra attention to how to connect cables to the expansion card. If the cables are incorrectly connected, the expansion card may fail to be burned or even be damaged.

Blue dipswitch to 0000



One end of the cable is male, the other is female

Burn-in cable inserted into the expansion card burn-in port"



Note that the burn-in notch faces to the right

Expansion card and burn-in line to plug the physical picture

Open the upper software burning software, select the required software and burn it

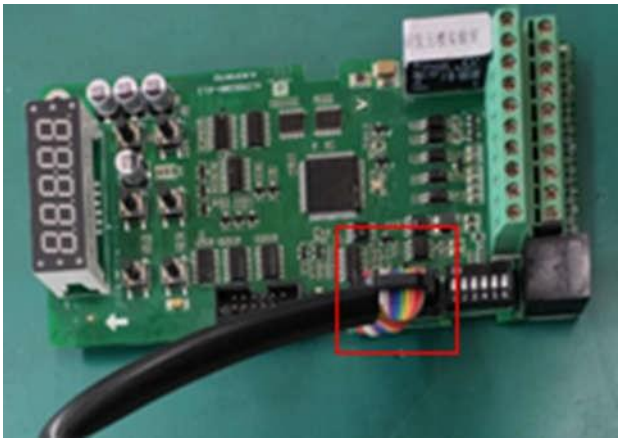
4. 2 AC300 burn-in port special instructions

The AC300 burn-in port can be used for AC300/AC310 series control boards, as well as finished boards with the same burn-in port definition as AC300CON1. Take AC300CON1 control board as an example briefly.

SCI burn: blue dip switch to 0000, the following figure

Bare chip burning: blue dip switch to 1000, the diagram omitted

The burn-in cable is plugged into the "AC300 burn-in port"



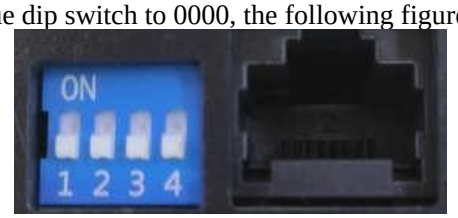
The burn-in cable is plugged into the "Expansion Port B" of the control board

Open the upper burner software, select the required software and burn it

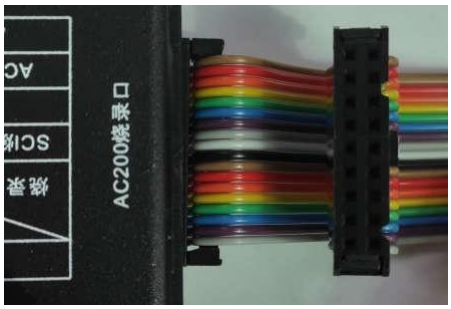
4. 3 AC200 burn-in port special instructions

The AC200 burn-in port can be used to burn-in the AC200/AC80C series control boards, as well as the burn-in port definition for the AC80CON is the same as the finished board.

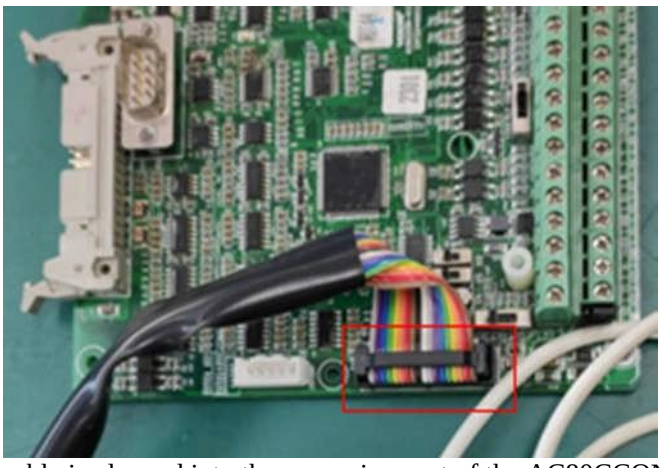
SCI burn: blue dip switch to 0000, the following figure



Bare chip burning: blue dip switch to 1000, the diagram omitted



The burn-in cable is plugged into the "AC300 burn-in port"



The burn-in cable is plugged into the expansion port of the AC80CCON control board

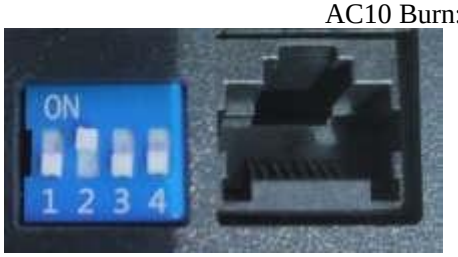
Open the upper burner software, select the required software and burn it

4.4 RJ45 burn-in port special instructions

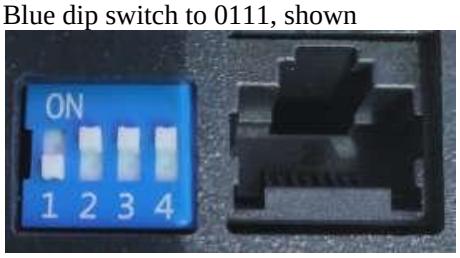
RJ45 burn-in ports are available for AC300 series external keypads, as well as finished boards with burn-in port definitions consistent with the keypad KBD300-25 network port.

Keyboard burn-in: Blue dipswitch to 0100, shown

AC10 Burn: Blue dip switch to 0111, shown



Dial code 0100



Dial code 0111

The burn-in cable is inserted into the "RJ45 burn-in port"

Insert the network cable of the burn-in port into the keyboard

Open upper software burning software, select the required software and burn it

4.5 USB2 power supply description

When the target board current exceeds 400mA,it is recommended to use USB2 auxiliary power.

Can use 5V power adapter or mobile power supply can be

5 Troubleshooting

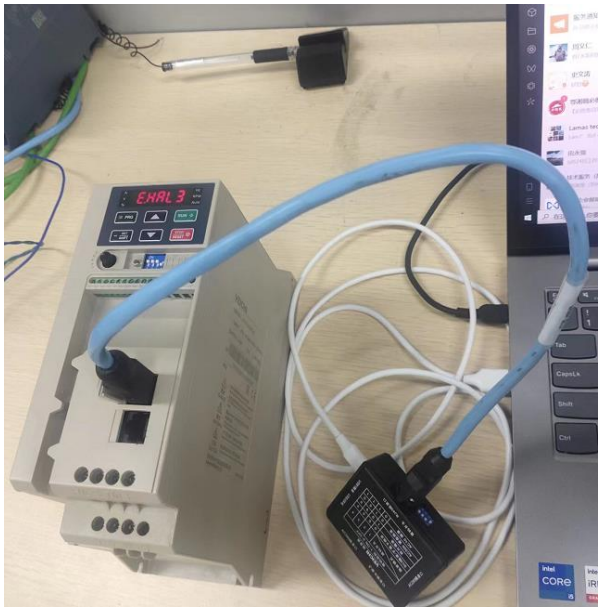
1. If USB1 and USB2 are plugged into the same computer at the same time, the COM port of the burning software is not recognized or blinks, but both USB1 and USB2 alone can be recognized, then you need to open the top cover and turn the internal black dip switch to the digital terminal "1" and "2 " at.

Burning Guidance Document

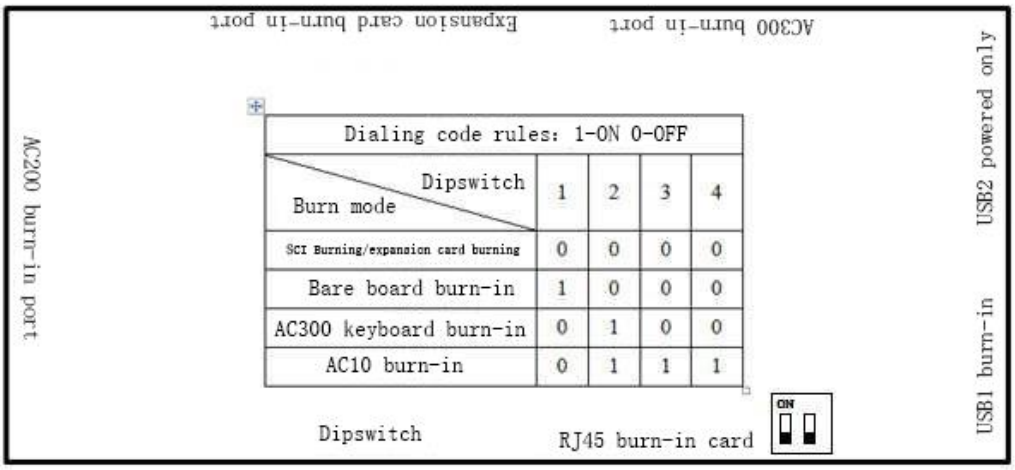
Note：

1、 Do not power on the machine, please burn in the case of power off
2、 Determine whether the dip switch is correctly dialed before burning
3、 Do not move during the burning process, if you interrupt the burning, the burning again will not be burned in, resulting in damage to the control board
4、 AC10 and AC310 need to record the FU.08 and FU.11 parameters before burning the software, and then enter the previously recorded FU.08 and FU.11 data after the burning is completed to ensure that the overvoltage point and current detection of the machine after burning are accurate.
5、 Power off immediately after burning is completed: after power on again, it will judge that reading EEPROM is wrong, at this time force to initialize all parameters, also including FU parameters.
6、 AC10, AC310 in only for the control of electricity for burning, after the completion of burning need to wait for the completion of the keyboard display before disconnecting the control of electricity. If the site can not see the keyboard display, you can wait 10s after the burn-in is completed and then disconnect the control power.
7、 AC10, AC310 software of UW chip and Infineon chip can not be burned into each other, if the machine of UW chip is burned into the software version of Infineon, there will be no display, please re-burn the software version of UW chip at this time.

一、Net port burn-in physical connection diagram



二、Determine dialing code

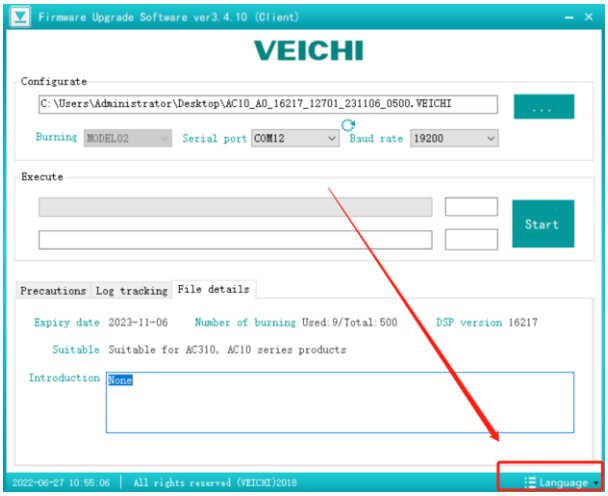


Dialing code rules: 1-ON 0-OFF				
Burn mode \ Dipswitch	1	2	3	4
SCI Burning/expansion card burning	0	0	0	0
Bare board burn-in	1	0	0	0
AC300 keyboard burn-in	0	1	0	0
AC10 burn-in	0	1	1	1

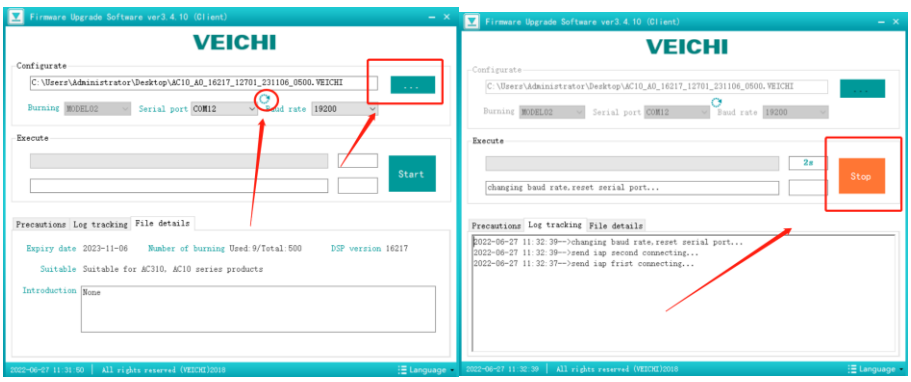
Net port burn-in dialing code similar to AC10's dialing co

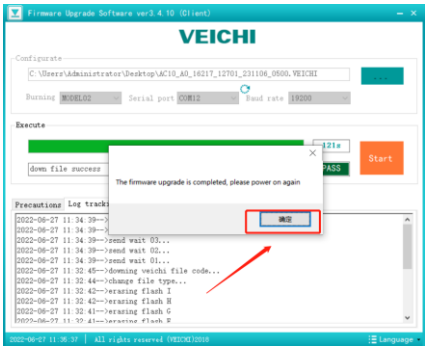
三、Burning steps

Step 1: Open software copy serial number, request registration code from manufacturer. Click Register. If you want the English interface, please click on the language



Step 2: Select the program to burn





Step 3： After the software is successfully burned, power off and restart, press the menu key PRG on the keyboard, C group parameters appear, for example, the control board of AC70 is burned, see C-28, and the control board of AC10 0r AC310 is burned, see C00.28. In a word, to see whether the software version of monitoring parameters is normal, and then modify the power.

Step 4： For example, change the power of SI21. F00.05=2025 Enter the value of Fu.02 to change the power. After the change, check whether the power of C00.25 is successfully changed.