



孕龍科技股份有限公司
Zeroplus Technology Co., Ltd.

SPECIFICATION

MODEL: B08013-LAP-JK FLIP-FLOP-M

PART NO : _____

VERSION : V1.04

Approver		Check	Design
GM	PM		

Customer Confirm

* Please fax the file to
Zeroplus Technology after
signing.

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1 软件下载

下载安装软件请依照下列步骤：

注：本说明书若有任何改动恕不另行通知。因模组版本升级而造成的与本说明书不符，以模组软件为准。

STEP 1. 请链接 ZEROPLUS 的公司网址：<http://www.zeroplus.com.tw/>。

STEP 2. 点击公司首页仪器事业处 Instrument Division 简体中文。





STEP 3. 单击产品介绍菜单。



STEP 4. 再单击总线协议分析模组。





STEP 5. 在基本逻辑应用分类中单击 JK FLIP-FLOP 模组。



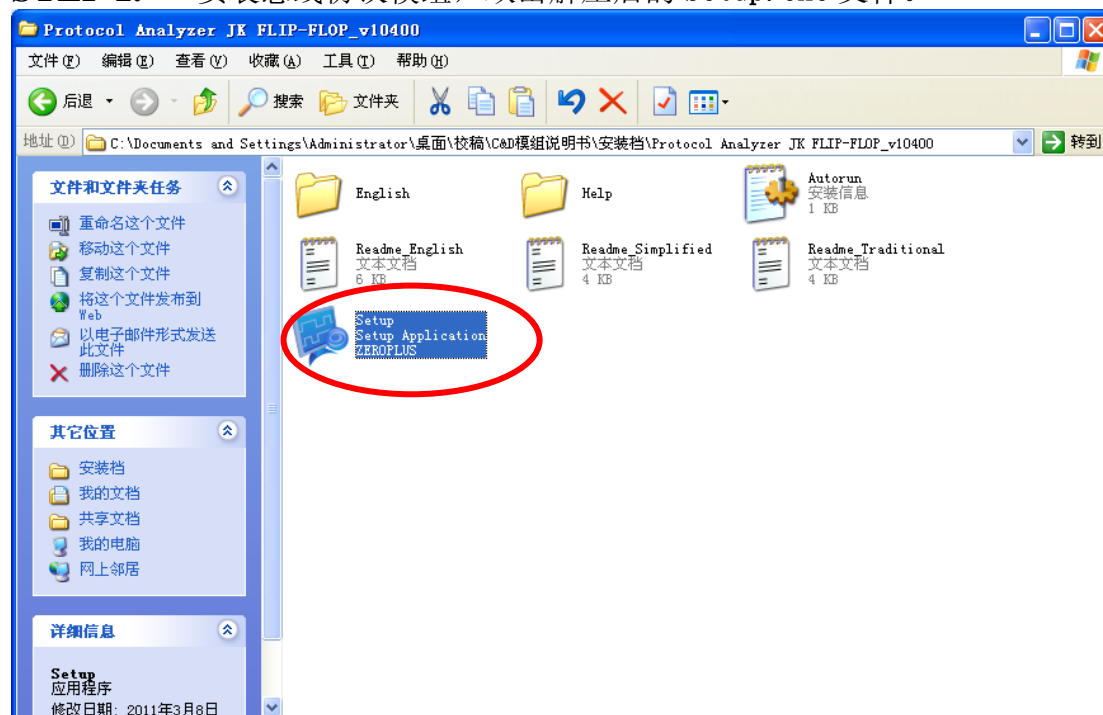
STEP 6. 单击 software，可将该模组安装档文件存储到您的电脑，解压此档进行安装。



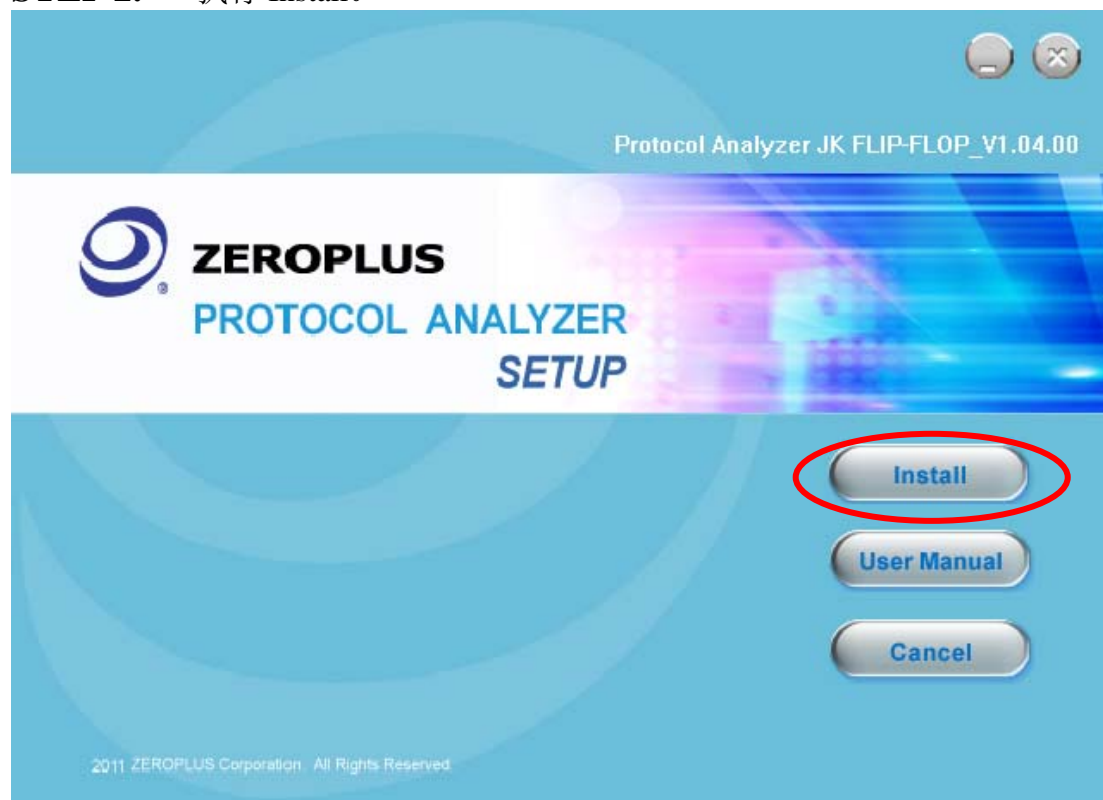


2 软件安装

STEP 1. 安装总线协议模组，双击解压后的 Setup.exe 文件。

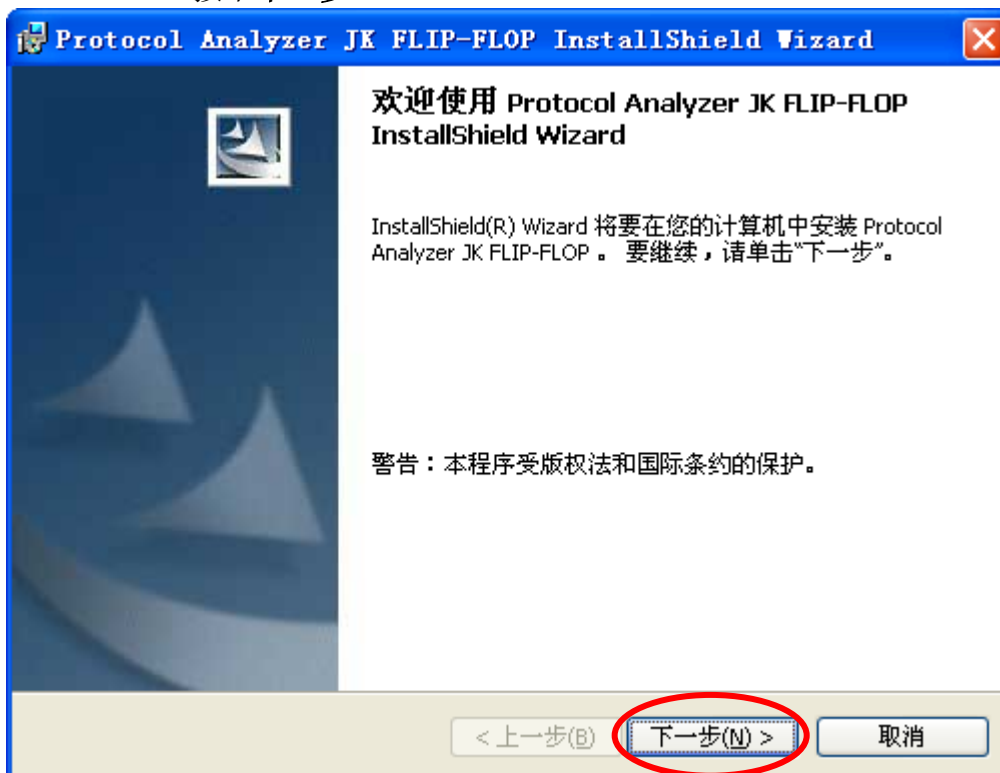


STEP 2. 执行 Install。

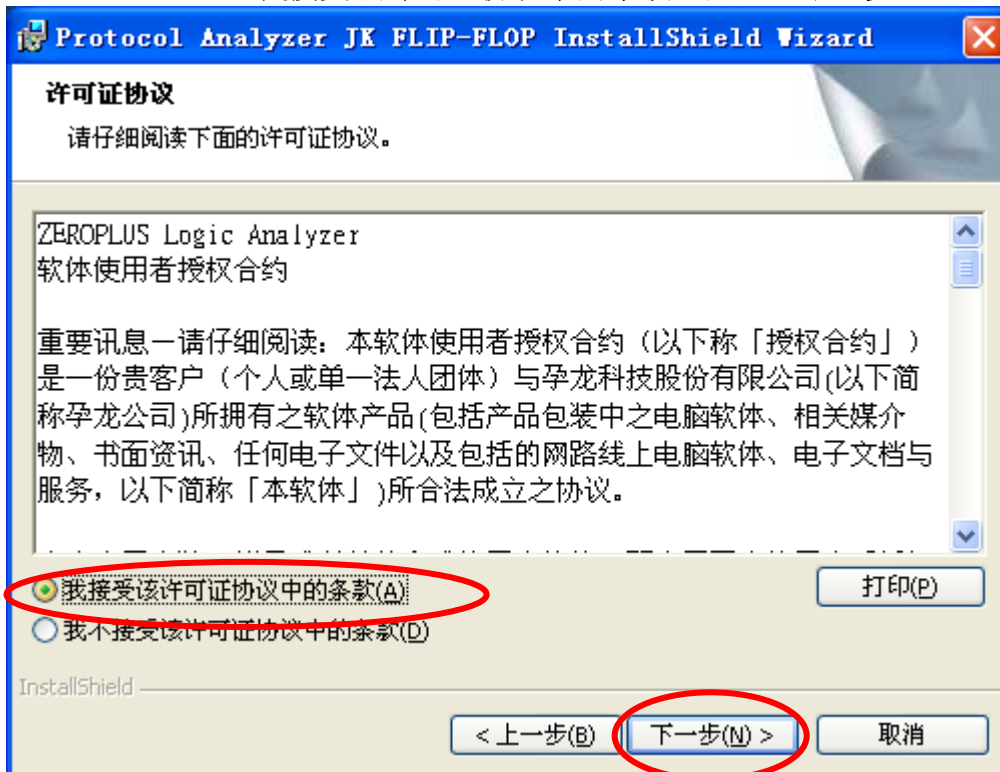




STEP 3. 按下下一步。



STEP 4. 点选我接受该许可证协议中的条款，并按下下一步。





STEP 5. 填写完相关数据，点选下一步。

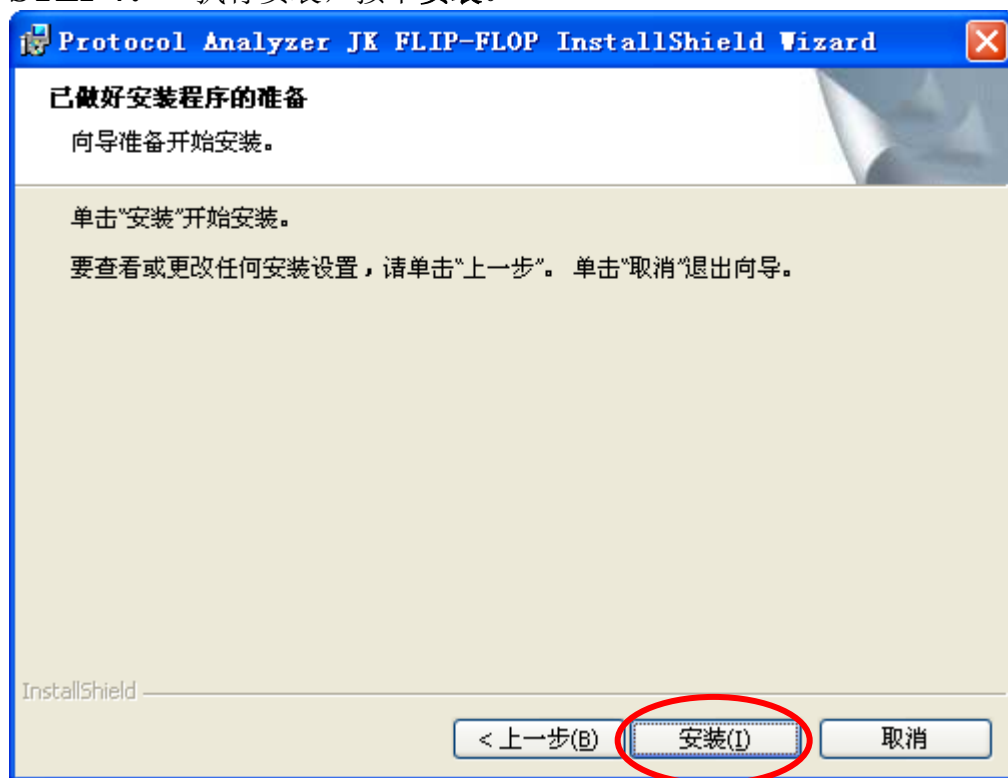
The screenshot shows the 'User Information' (用户信息) screen of the 'Protocol Analyzer JK FLIP-FLOP InstallShield Wizard'. The title bar includes a close button. The main area has a header '用户信息' and a prompt '请输入您的信息。'. Below are two text input fields: '用户姓名(U):' with '微软用户' entered, and '单位(O):' with '微软中国' entered. A section titled '此应用程序的使用者:' contains two radio button options: '使用本机的任何人(A) (所有用户)' (selected) and '仅限本人(M) (微软用户)'. At the bottom, there are three buttons: '< 上一步(B)', '下一步(N) >' (circled in red), and '取消'. The 'InstallShield' logo is in the bottom left corner.

STEP 6. 点选下一步。

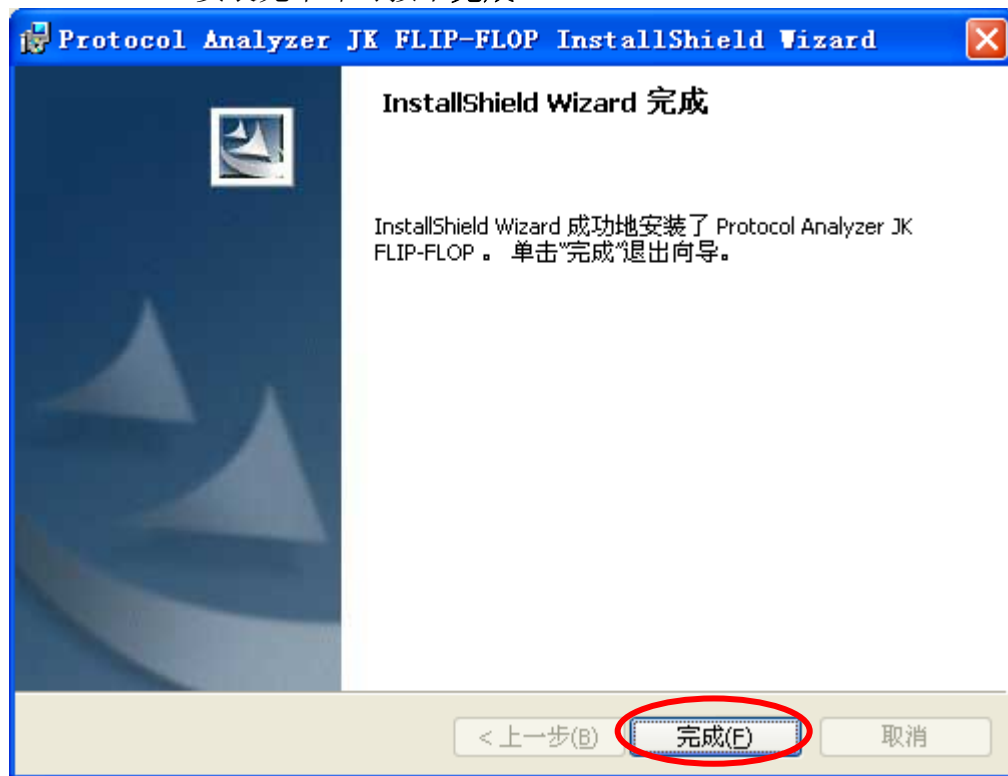
The screenshot shows the 'Installation Type' (安装类型) screen of the 'Protocol Analyzer JK FLIP-FLOP InstallShield Wizard'. The title bar includes a close button. The main area has a header '安装类型' and a prompt '选择最适合自己的安装类型。'. Below is a prompt '请选择一个安装类型。'. There are two radio button options: '完整安装(O)' (selected) with a description '将安装所有的程序功能。(需要的磁盘空间最大)。' and '自定义(S)' with a description '选择要安装的程序功能和将要安装的位置。建议高级用户使用。'. At the bottom, there are three buttons: '< 上一步(B)', '下一步(N) >' (circled in red), and '取消'. The 'InstallShield' logo is in the bottom left corner.



STEP 7. 执行安装，按下安装。



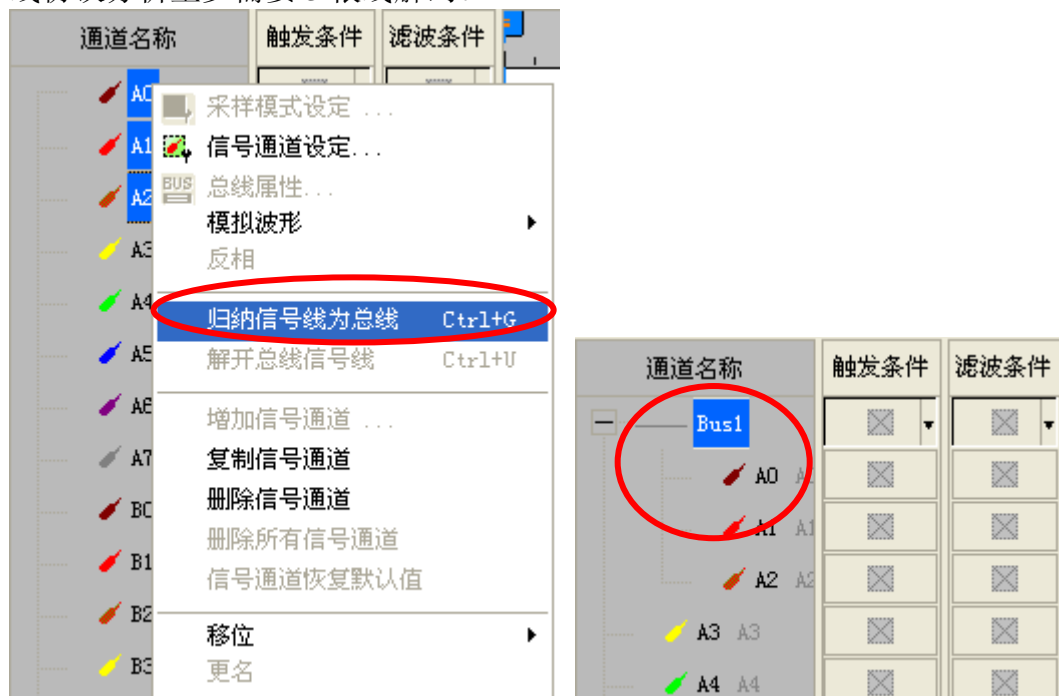
STEP 8. 安装完毕即可按下完成。



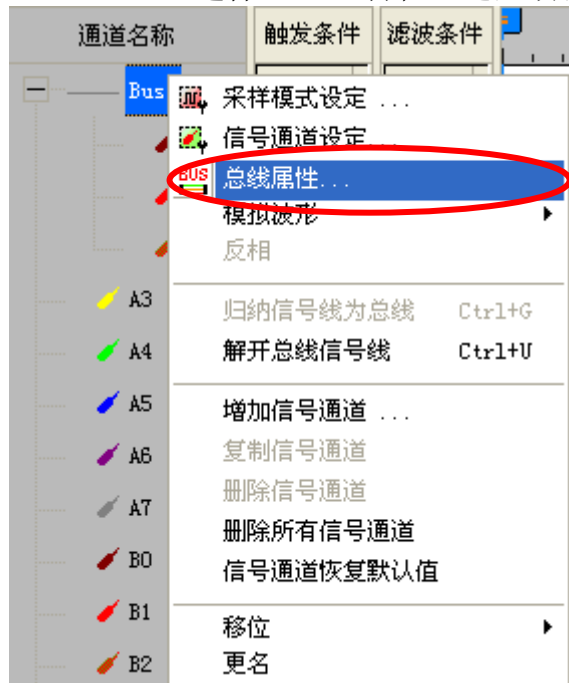


3 软件注册

STEP 1. 在通道名称区域右键，点选归纳信号线为总线，把 A0~A2 归纳为 Bus1，JK FLIP-FLOP 总线协议分析至少需要 3 根线解码。

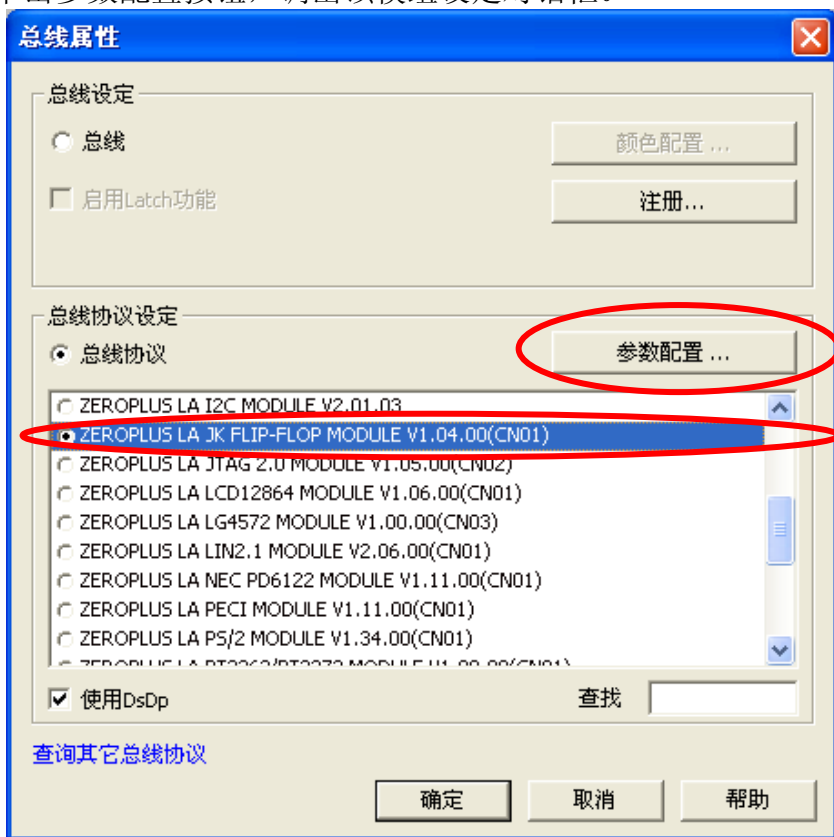


STEP 2. 选择 Bus1，再在通道区域右键，点选总线属性，调出总线属性对话框。

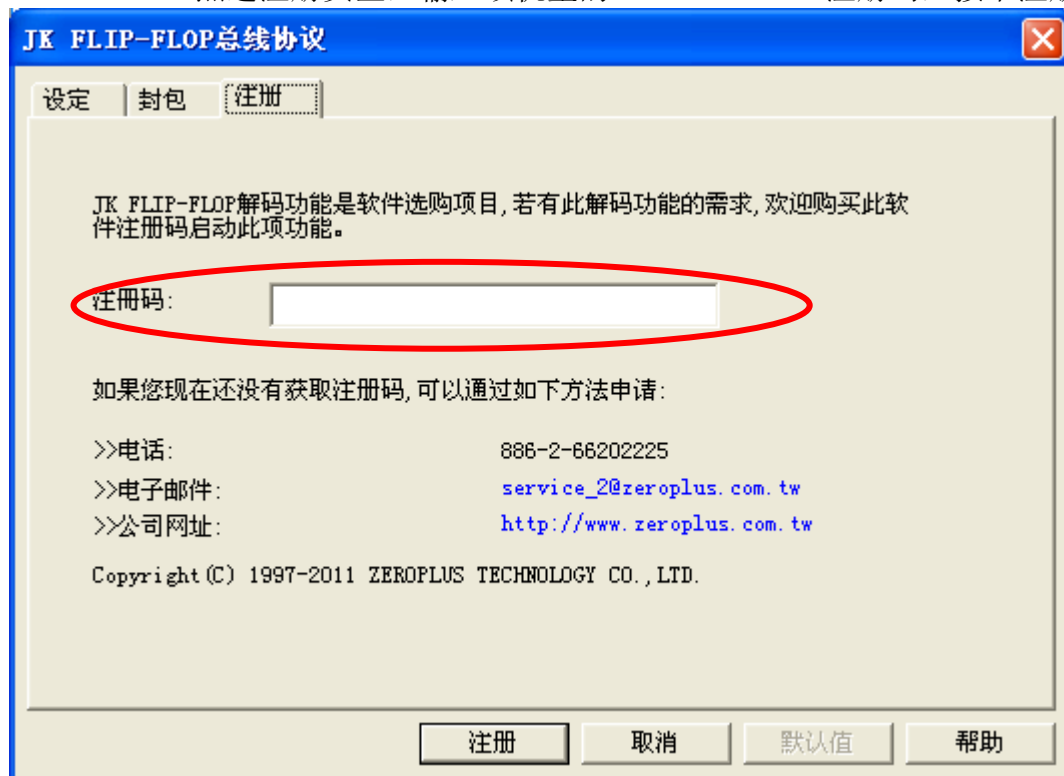




STEP 3. 在总线属性对话框，点选 ZEROPLUS LA JK FLIP-FLOP MODULE V1.04.00 (CN01)，再单击参数配置按钮，调出该模组设定对话框。

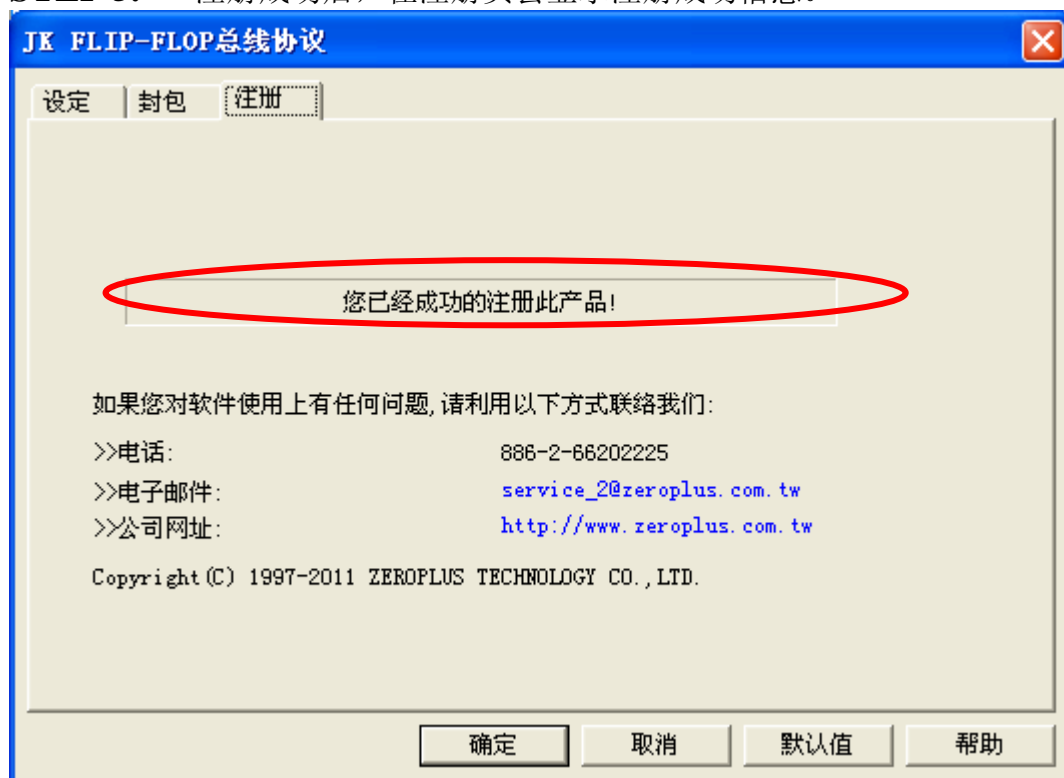


STEP 4. 点选注册页签，输入该机型的 JK FLIP-FLOP 注册码，按下注册按钮进行注册。





STEP 5. 注册成功后，在注册页会显示注册成功信息。





4 人机界面

设定部分，请参考下图界面。

设定页

The screenshot shows a software window titled "JK FLIP-FLOP总线协议". It has three tabs: "设定" (Setting), "封包" (Encapsulation), and "注册" (Registration). The "设定" tab is active. Inside, there are three main sections:

- 总线协议设定 (Bus Protocol Setting):** Includes a "选择器件:" (Select Device) dropdown menu set to "主从JK正反器" (Master-Slave JK Flip-Flop), a "采样边沿:" (Sampling Edge) dropdown menu set to "下降沿" (Falling Edge), and a checked "输出延迟" (Output Delay) checkbox with a value of "50" ns. Below the delay field is the text "(Min:0, Max:1000)".
- 通道设定 (Channel Setting):** Contains a single button labeled "设定..." (Setting...).
- 总线协议颜色 (Bus Protocol Color):** Displays three color swatches: "0" (blue), "1" (green), and "Error" (magenta). Each swatch has a small "..." button next to it.

At the bottom of the window are four buttons: "确定" (OK), "取消" (Cancel), "默认值" (Default), and "帮助" (Help).

选择器件:

可以设置为边沿触发 JK 正反器和主从 JK 正反器。

采样边沿:

可以设置为上升沿和下降沿。

输出延迟设定:

定义输出延迟时间，默认值为 50ns。

总线协议颜色:

可点击按钮自行设定。



通道设定:

在输入通道设定中，CLR、PR、J、/J、K 和/K 是可选的，但 J 和/J、K 和/K 都是两者中只能选一个，选择了其中一个另一个就不可选。若通道中选择了/J 或者/K，在解码的时候就必须先将/J 或者/K 上取样到的值进行取反后再去对应到真值表中的 J 和 K。输出通道可以选择 Q 和/Q，若勾选了虚拟输出解码模式复选框，则输出通道将不可设定，解码的时候只根据输入解码出正确的结果，而与输出信号无关。



封包页

The screenshot shows the 'Packet Page' of the 'JK FLIP-FLOP Bus Protocol' configuration window. It features three tabs: 'Setting' (selected), 'Packet', and 'Registration'. The main area contains a table for configuring packet items:

子项 (Sub-item)	颜色 (Color)	封包长度 (Packet Length)
<input checked="" type="checkbox"/> 0	Blue	1
<input checked="" type="checkbox"/> 1	Green	
<input checked="" type="checkbox"/> Describe	Blue	

At the bottom, there are four buttons: '确定' (OK), '取消' (Cancel), '默认值' (Default), and '帮助' (Help).

封包部分，可选择显示项目，颜色配置及封包长度。

注册页

The screenshot shows the 'Registration Page' of the 'JK FLIP-FLOP Bus Protocol' configuration window. The 'Registration' tab is selected. The main area displays a success message: '您已经成功的注册此产品!' (You have successfully registered this product!). Below this, it provides contact information for support:

如果您对软件使用上有任何问题, 请利用以下方式联络我们:

- >>电话: 886-2-66202225
- >>电子邮件: service_2@zeroplus.com.tw
- >>公司网址: <http://www.zeroplus.com.tw>

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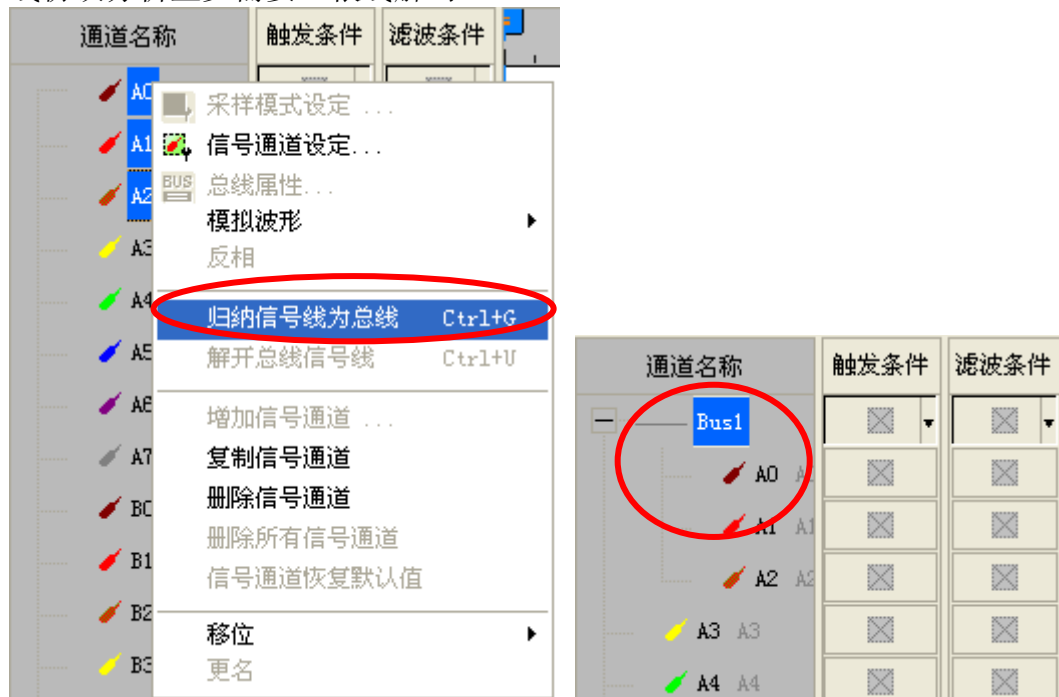
At the bottom, there are four buttons: '确定' (OK), '取消' (Cancel), '默认值' (Default), and '帮助' (Help).

注册部分，提供公司相关信息。有问题可拨打电话及来信或是上网查询。

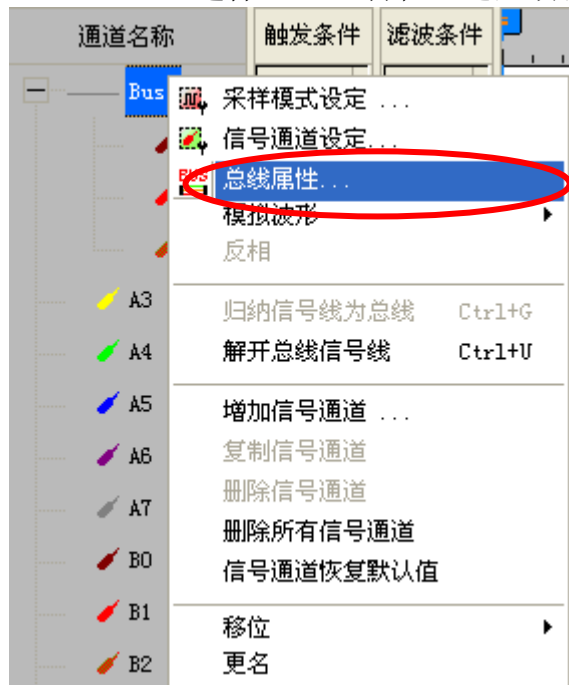


5 使用说明

STEP 1. 在通道名称区域右键，点选归纳信号线为总线，把 A0~A2 归纳为 Bus1，JK FLIP-FLOP 总线协议分析至少需要 3 根线解码。

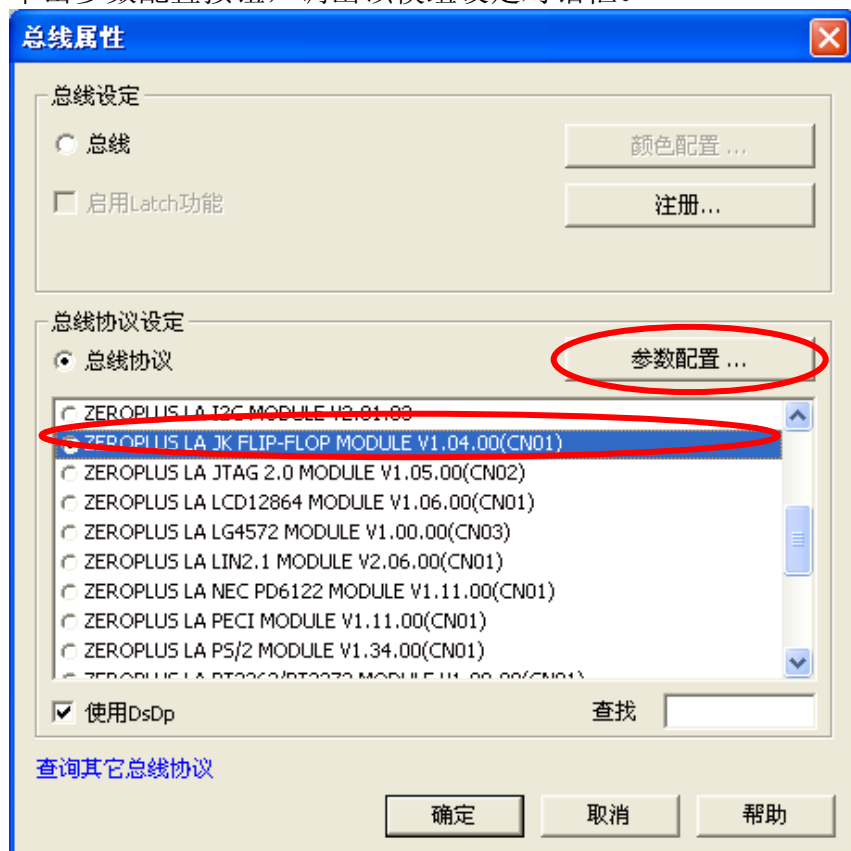


STEP 2. 选择 Bus1，再在通道区域右键，点选总线属性，调出总线属性对话框。





STEP 3. 在总线属性对话框，點選 ZEROPLUS LA JK FLIP-FLOP MODULE V1.04.00 (CN01)，再单击参数配置按钮，调出该模组设定对话框。

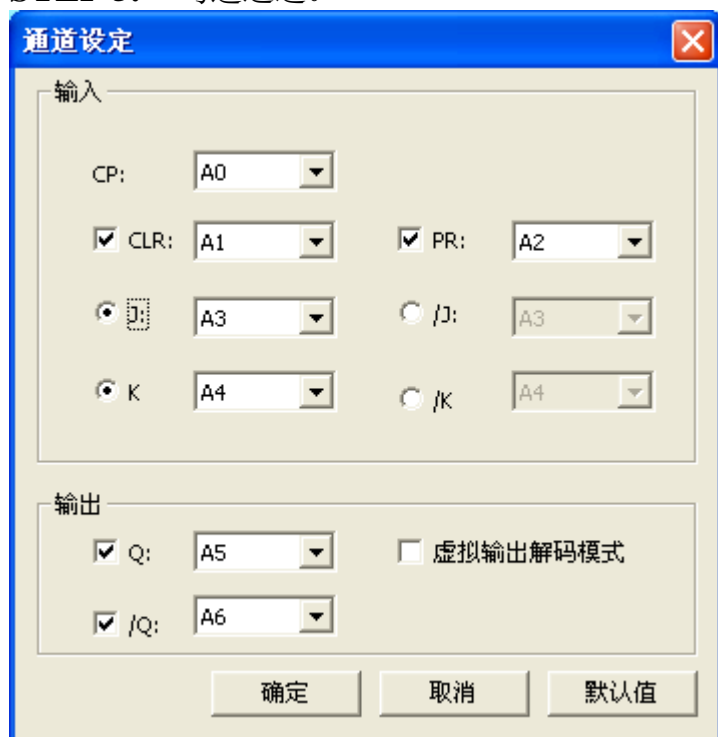


STEP 4. 选择信号通道。






STEP 5. 勾选通道。



The '通道设定' (Channel Setting) dialog box is shown. It has a blue title bar with a close button. The dialog is divided into two main sections: '输入' (Input) and '输出' (Output). In the '输入' section, there are four rows of controls. The first row has 'CP:' followed by a dropdown menu set to 'A0'. The second row has a checked checkbox for 'CLR:' followed by a dropdown set to 'A1', and a checked checkbox for 'PR:' followed by a dropdown set to 'A2'. The third row has a radio button selected for 'J:' followed by a dropdown set to 'A3', and an unselected radio button for '/J:' followed by a dropdown set to 'A3'. The fourth row has a radio button selected for 'K:' followed by a dropdown set to 'A4', and an unselected radio button for '/K:' followed by a dropdown set to 'A4'. In the '输出' section, there are two rows. The first row has a checked checkbox for 'Q:' followed by a dropdown set to 'A5', and an unchecked checkbox for '虚拟输出解码模式' (Virtual Output Decoding Mode). The second row has a checked checkbox for '/Q:' followed by a dropdown set to 'A6'. At the bottom, there are three buttons: '确定' (OK), '取消' (Cancel), and '默认值' (Default).

STEP 6. 选择器件有边沿触发 JK 正反器和主从 JK 正反器。解发模式有上升沿和下降沿。



The 'JK FLIP-FLOP总线协议' (JK FLIP-FLOP Bus Protocol) dialog box is shown. It has a blue title bar with a close button. The dialog has three tabs: '设定' (Setting), '封包' (Packet), and '注册' (Registration). The '设定' tab is active. It is divided into two main sections: '总线协议设定' (Bus Protocol Setting) and '通道设定' (Channel Setting). In the '总线协议设定' section, there are two rows. The first row has '选择器件:' (Select Device) followed by a dropdown menu set to '主从JK正反器' (Master-Slave JK Flip-Flop). The second row has '采样边沿:' (Sampling Edge) followed by a dropdown menu set to '下降沿' (Falling Edge). Below these rows, there is a checked checkbox for '输出延迟' (Output Delay) followed by a text box containing '50' and the unit 'ns'. Below the text box, it says '(Min:0, Max:1000)'. In the '通道设定' section, there is a button labeled '设定...' (Setting...). Below this section, there is a section titled '总线协议颜色' (Bus Protocol Color). It contains three rows: '0' with a blue color bar, '1' with a green color bar, and 'Error' with a magenta color bar. At the bottom, there are four buttons: '确定' (OK), '取消' (Cancel), '默认值' (Default), and '帮助' (Help).



STEP 7. 输出延迟设定，范围为 0~1000。

JK FLIP-FLOP总线协议

设定 封包 注册

总线协议设定

选择器件: 主从JK正反器

采样边沿: 下降沿

☒ 输出延迟 50 ns
(Min:0, Max:1000)

通道设定

设定...

总线协议颜色

0 [Color Bar]

1 [Color Bar]

Error [Color Bar]

确定 取消 默认值 帮助

STEP 8. 总线协议颜色设定。

JK FLIP-FLOP总线协议

设定 封包 注册

总线协议设定

选择器件: 主从JK正反器

采样边沿: 下降沿

☒ 输出延迟 50 ns
(Min:0, Max:1000)

通道设定

设定...

总线协议颜色

0 [Color Bar]

1 [Color Bar]

Error [Color Bar]

确定 取消 默认值 帮助

总线协议解码

