



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

SPECIFICATION

MODEL: MODIFIED SPI Specification

PART NO : B09007

VERSION : V1.00

Approver		Check	Design
GM	PM		

Customer Confirm

* Please fax the file to
Zeroplus Technology after
signing .

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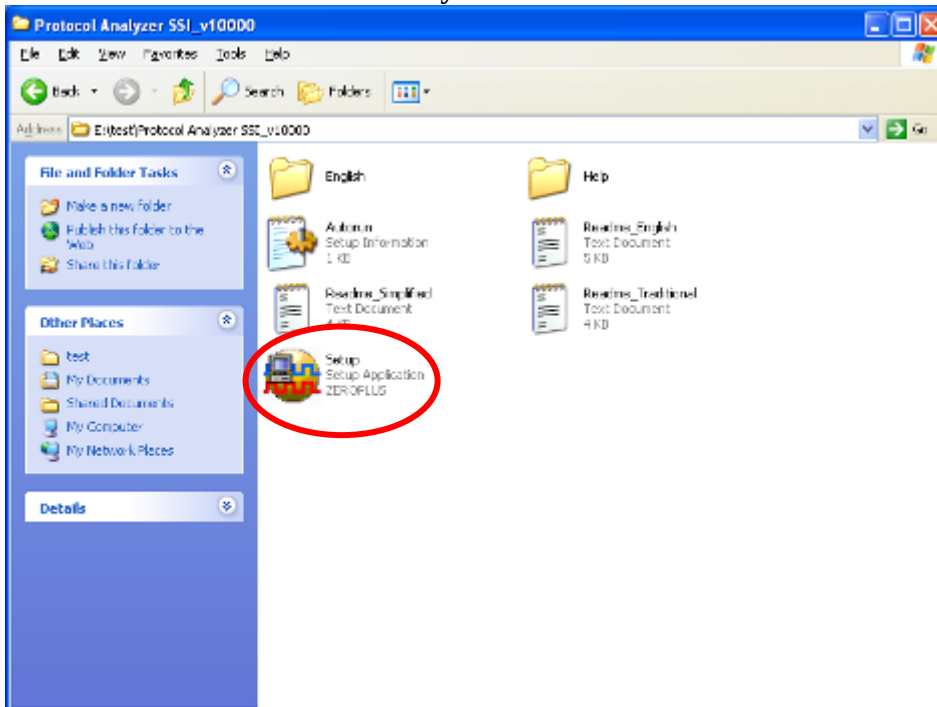
1 Software Installation

Please install the software as the following steps:

※ Remark: 1. The installation steps for all protocol analyzers are the same; you can complete the installation by following procedures. Following is an example on how to install protocol analyzer SSI.

※ Remark: 2. We won't have additional notice for you, when there is any modification of the module specification. If there is some unconformity caused by the module version upgrade, users should take the module software as the standard.

STEP 1. Install Protocol Analyzer Module.

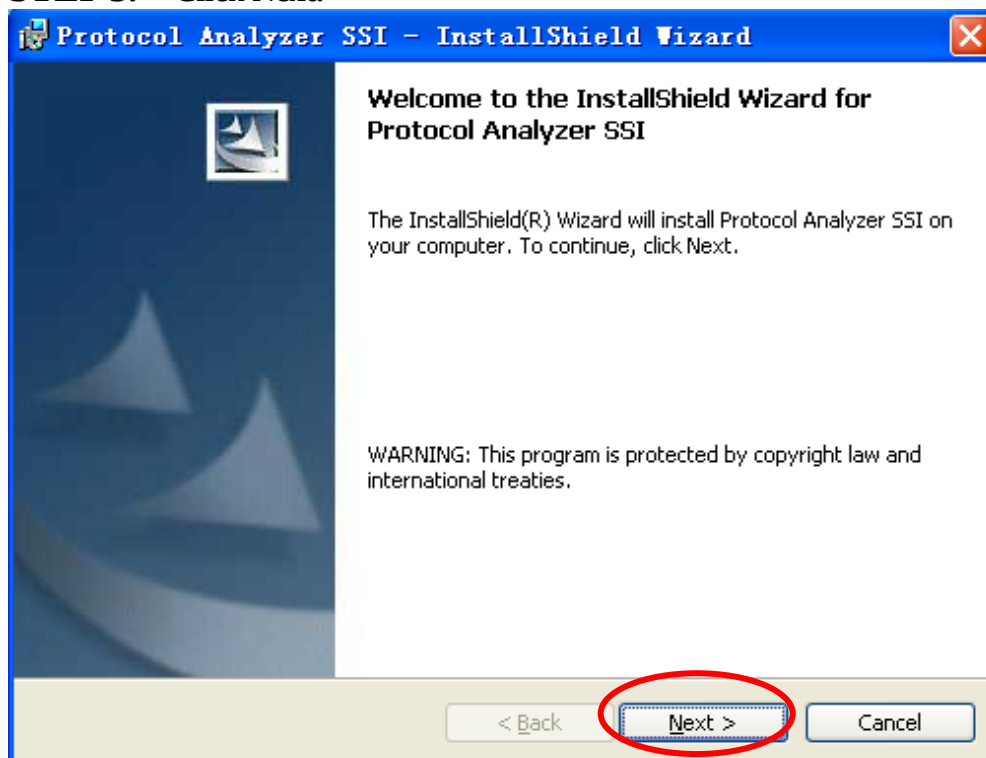


STEP 2. Click Install.

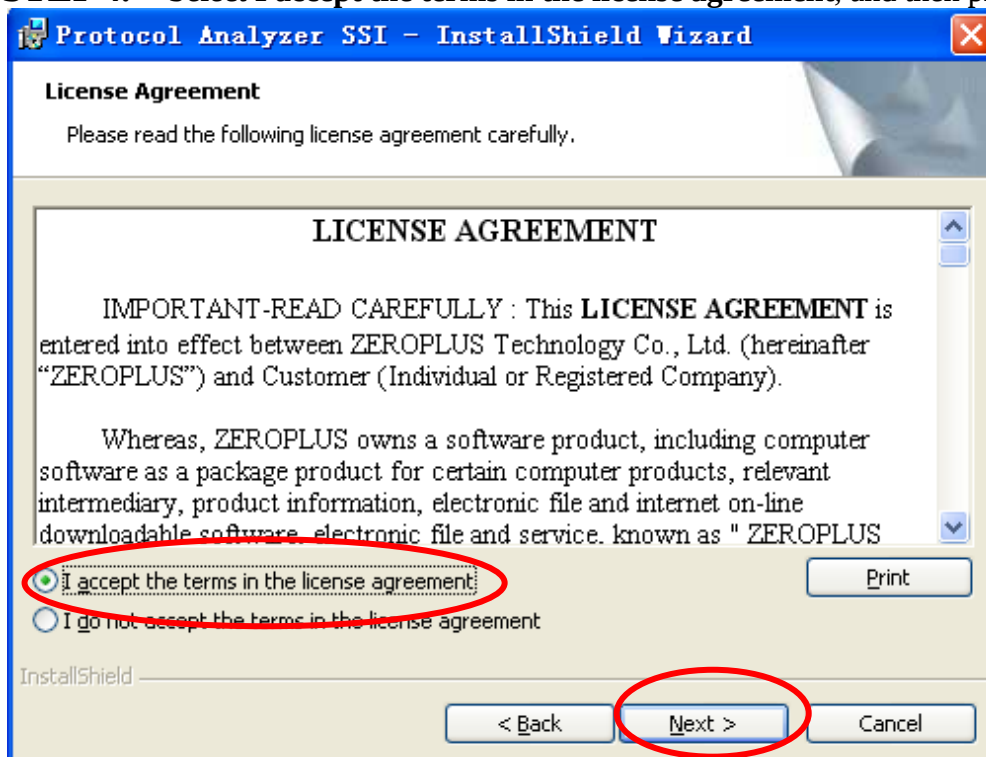




STEP 3. Click Next.



STEP 4. Select **I accept the terms in the license agreement**, and then press Next.





STEP 5. Fill in users' information in the below dialog box and click **Next**.

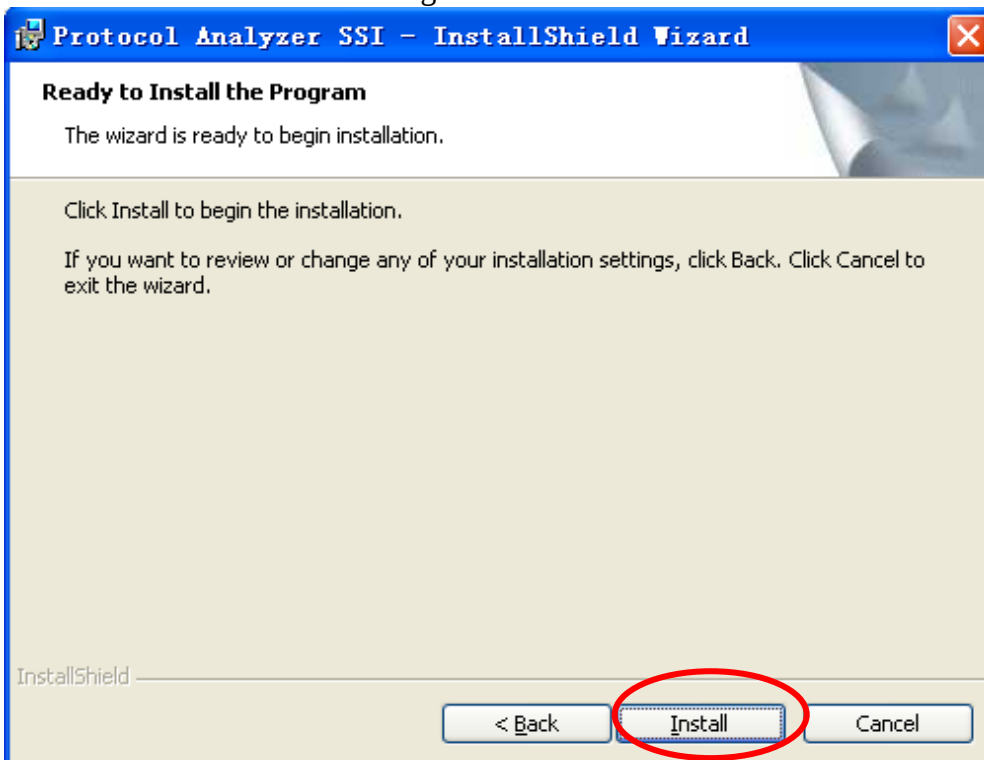
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It has a blue title bar with a close button. The main area is titled "Customer Information" and contains the text "Please enter your information." Below this are two text input fields: "User Name:" with the text "sunshine" and "Organization:" with the text "zeroplus". Below these fields are two radio button options: "Anyone who uses this computer (all users)" (selected) and "Only for me (sunshine)". At the bottom, there are three buttons: "< Back", "Next >" (circled in red), and "Cancel". The "InstallShield" logo is visible in the bottom left corner.

STEP 6. First, select **Complete** and then click **Next**.

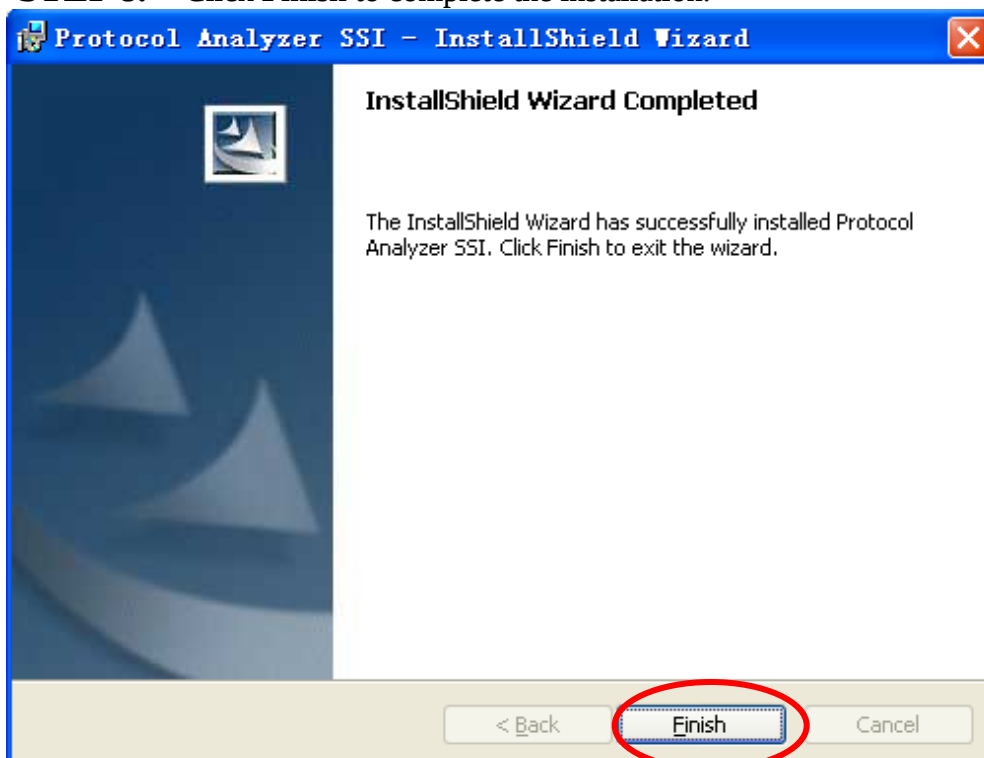
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It has a blue title bar with a close button. The main area is titled "Setup Type" and contains the text "Choose the setup type that best suits your needs." Below this is the text "Please select a setup type." There are two radio button options: "Complete" (selected) and "Custom". Each option has a small icon of a computer with a red checkmark. The "Complete" option has the text "All program features will be installed. (Requires the most disk space.)" and the "Custom" option has the text "Choose which program features you want installed and where they will be installed. Recommended for advanced users." At the bottom, there are three buttons: "< Back", "Next >" (circled in red), and "Cancel". The "InstallShield" logo is visible in the bottom left corner.



STEP 7. Click **Install** to begin the installation.



STEP 8. Click **Finish** to complete the installation.

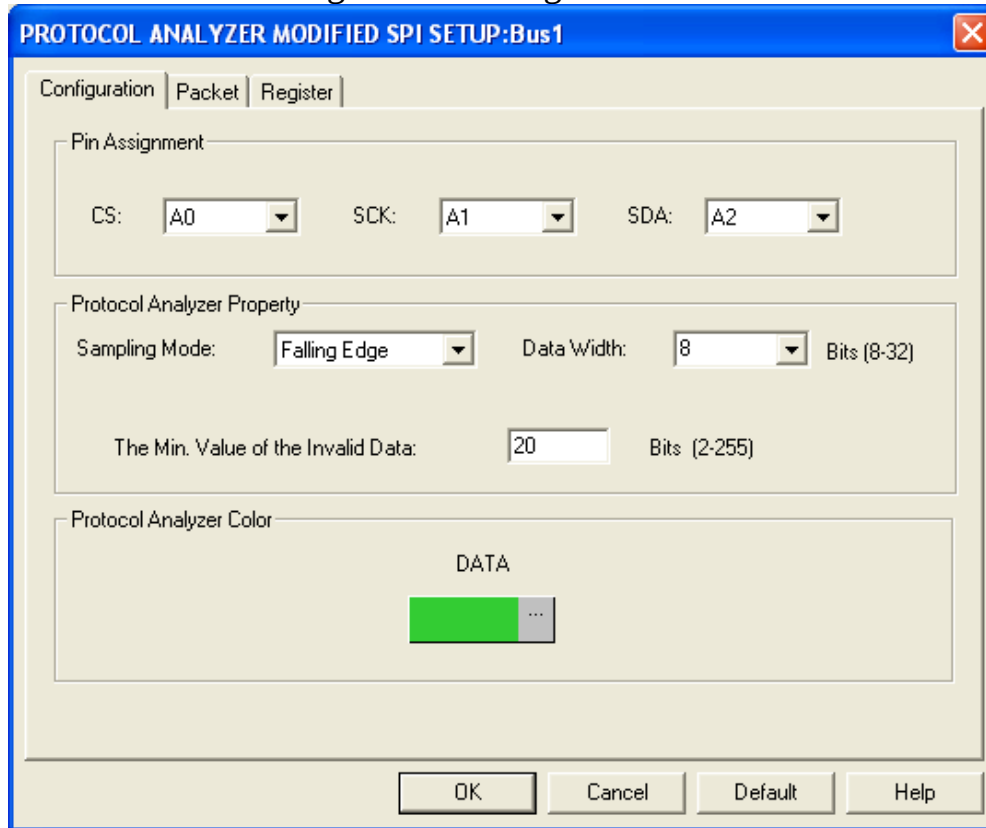




2 User Interface

In the configuration, please refer to the below images to select options of setting MODIFIED SPI module.

MODIFIED SPI Configuration Dialog Box



Pin Assignment:

SCK: It is the Clock Signal channel.

SDA: It is the Data Signal channel.

CS: It is the Chip Select channel.

Protocol Analyzer Property:

Sampling Mode: There are two options, Rising Edge and Falling Edge, and the default is Falling Edge.

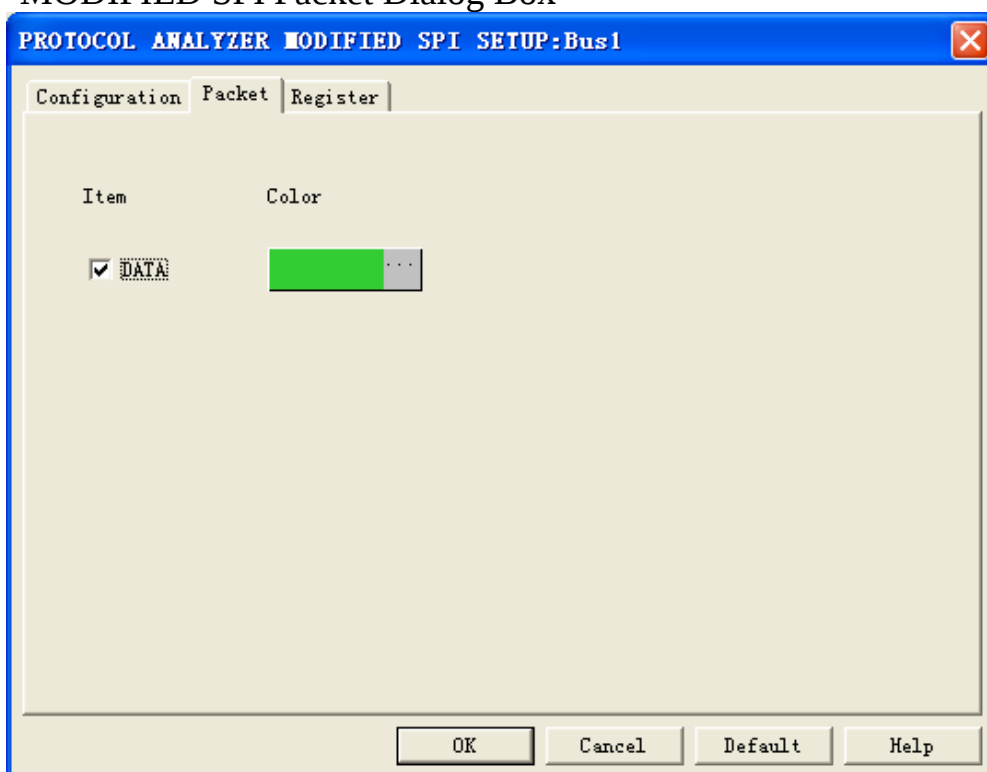
Data Width: Users can set the width of one DATA; the value (8, 16, 24, 32) can be selected from the pull-down menu. Meanwhile, users can set the value as their requirements; the range is from 8 to 32.

The Min. Value of the Invalid Data: It can set a lot of continuous Sampling Value which follows one DATA as "0" which can compose the min. value of the invalid data, and the default is 20Bits. The range of **The Min. Value of the Invalid Data** is an integer from 2 to 255.

Protocol Analyzer Color: The **Protocol Analyzer Color** can be varied by users.

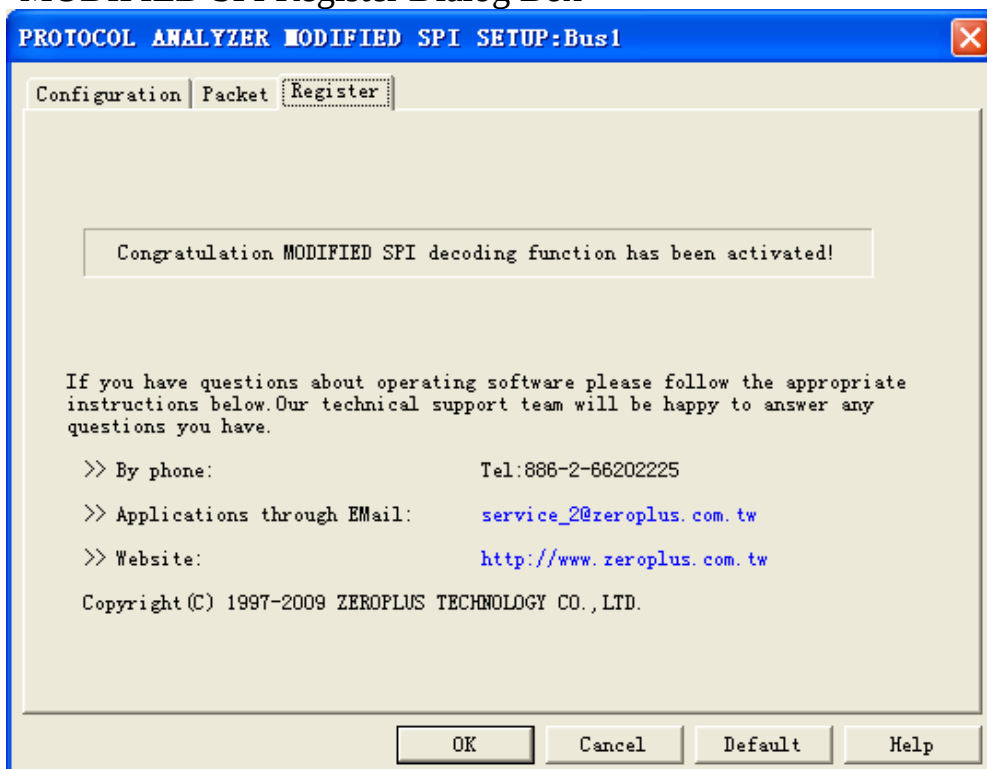


MODIFIED SPI Packet Dialog Box



In the packet part, users can set the items and colors as users' requirements.

MODIFIED SPI Register Dialog Box

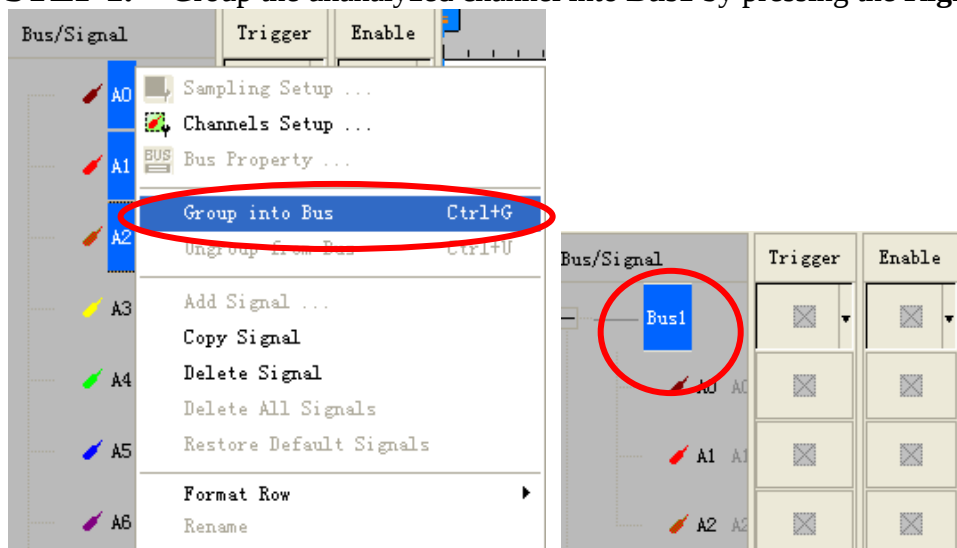


There is written ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

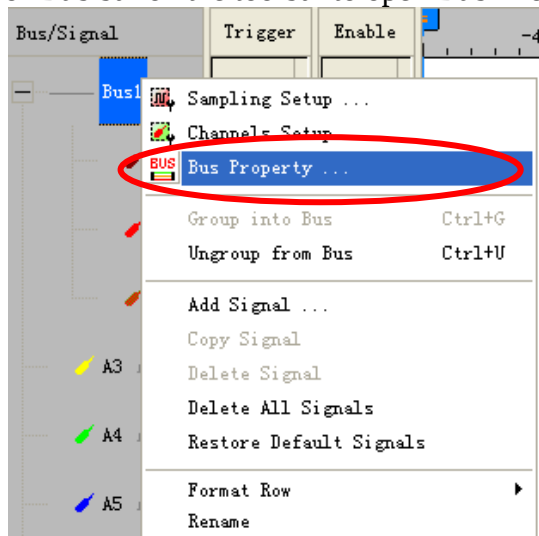


3 Operating Instructions

STEP 1. Group the unanalyzed channel into **Bus1** by pressing the **Right Key** on the mouse.

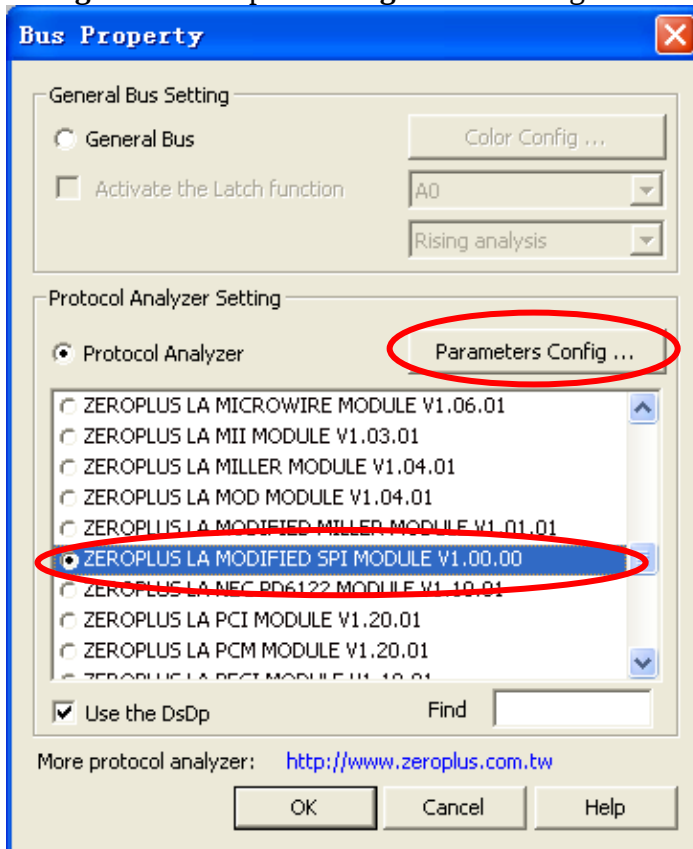


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** bar on the toolbar to open **Bus Property** dialog box.

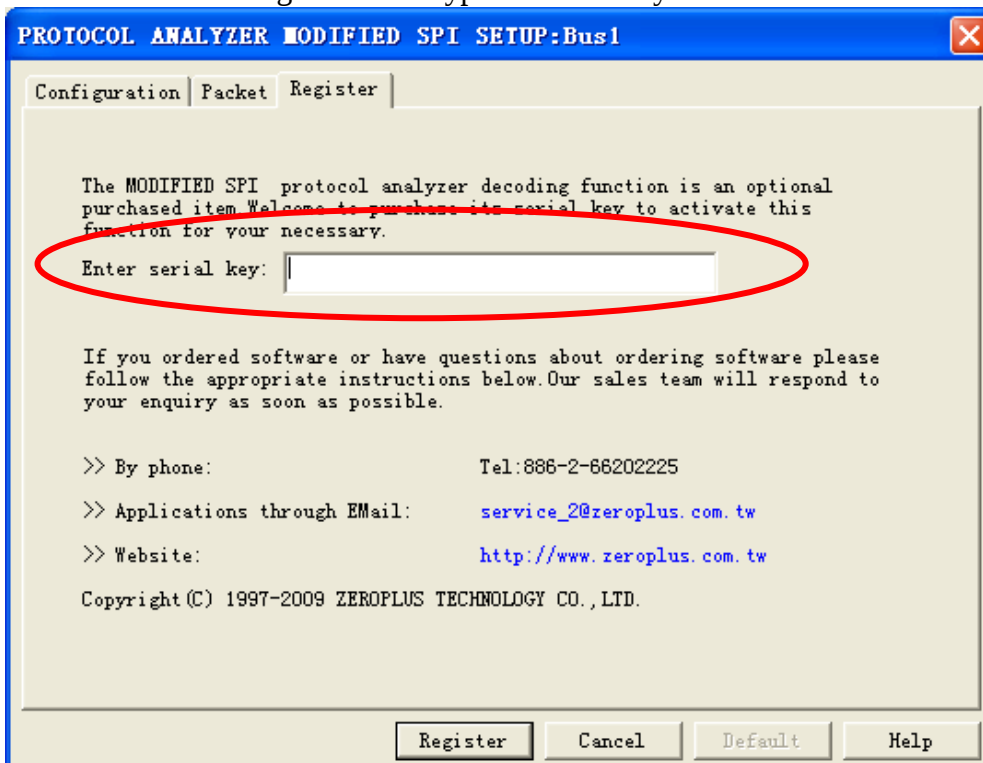




STEP 3. For Protocol Analyzer MODIFIED SPI Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA MODIFIED SPI MODULE V1.00.00**. Next click **Parameters Configuration** to open **Configuration** dialog box.

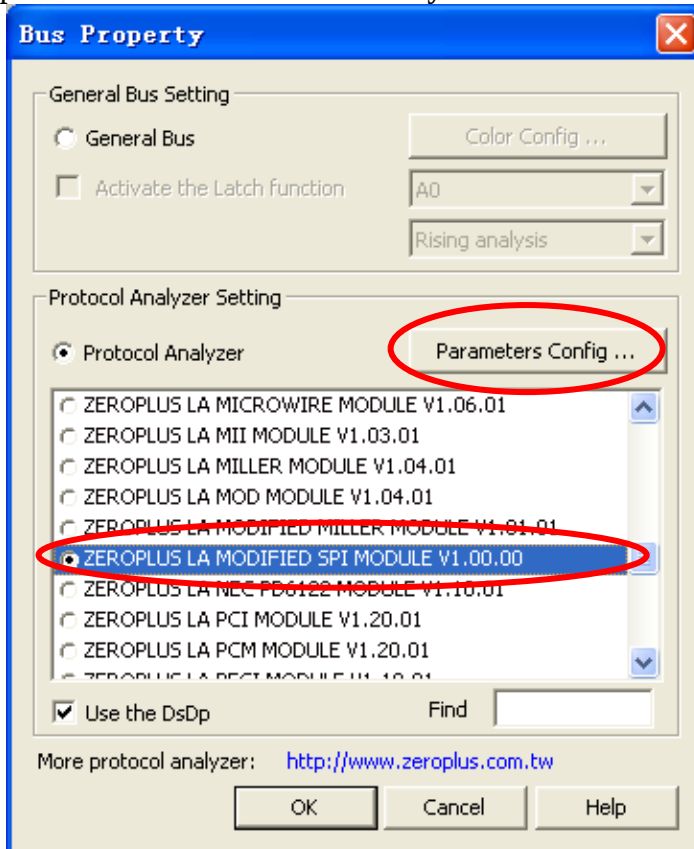


STEP 4. Press Register tab to type the serial key number of MODIFIED SPI. Then, press **Register**.

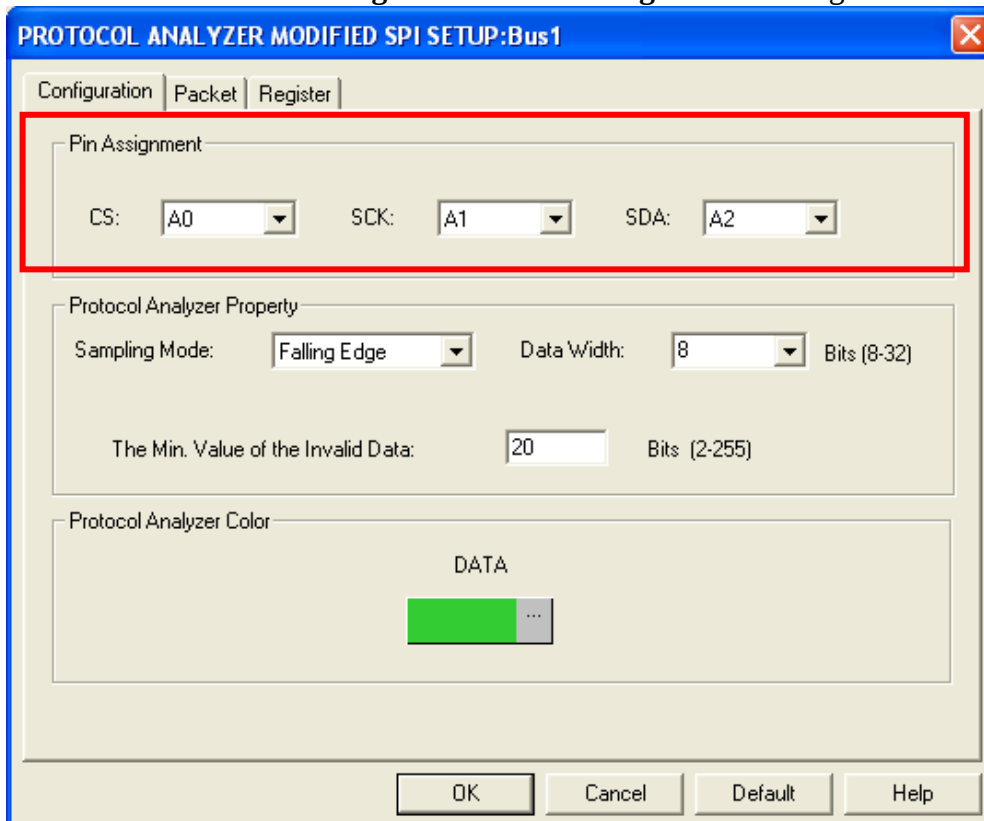




STEP 5. Click **Parameters Configuration** again, and open the configuration dialog box to set the parameters for the **Protocol Analyzer MODIFIED SPI**.

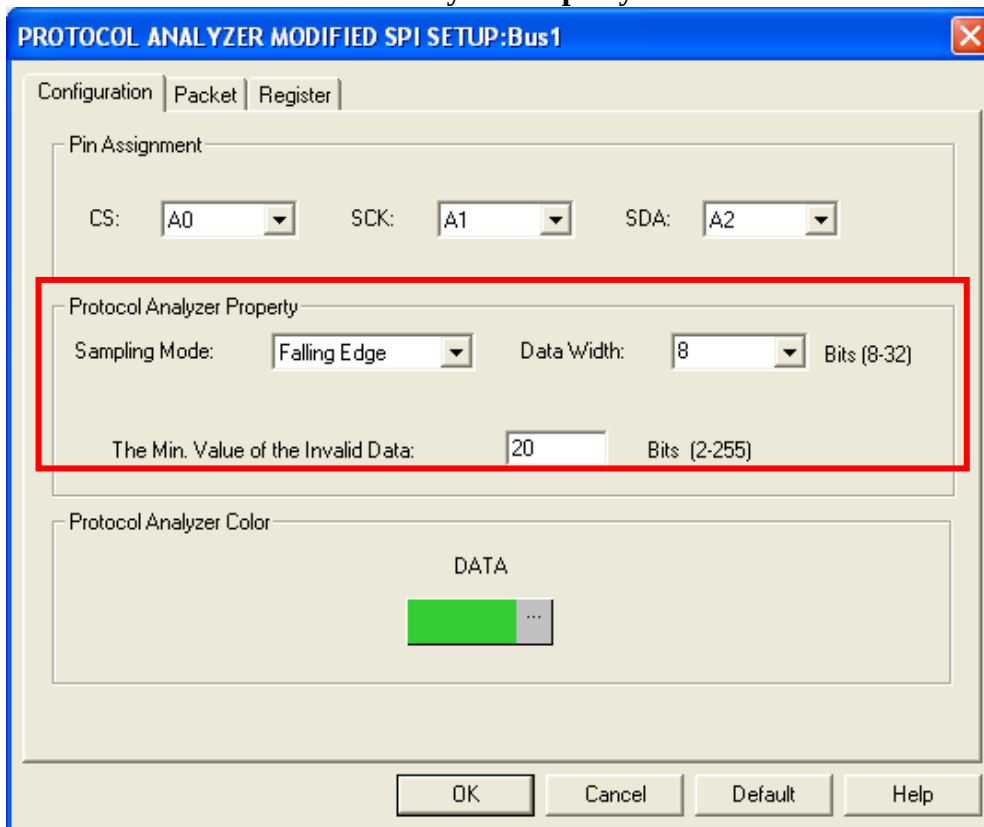


STEP 6. Set the **Pin Assignment** in the **Configuration** dialog box.

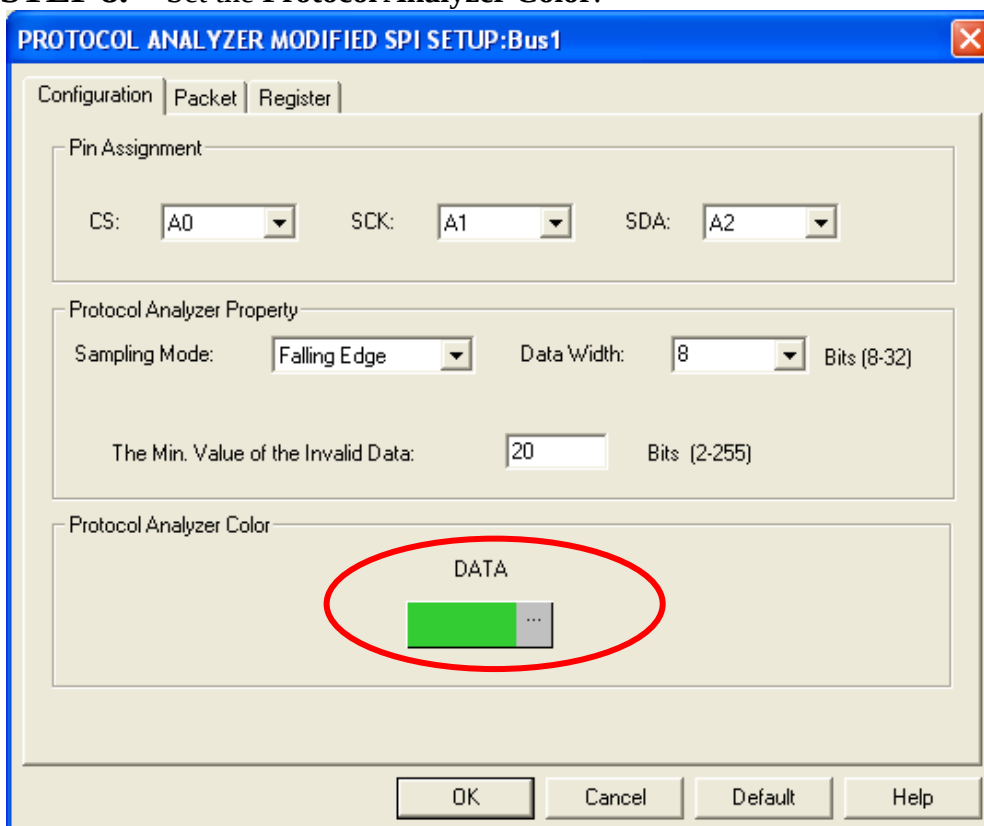




STEP 7. Set the Protocol Analyzer Property.



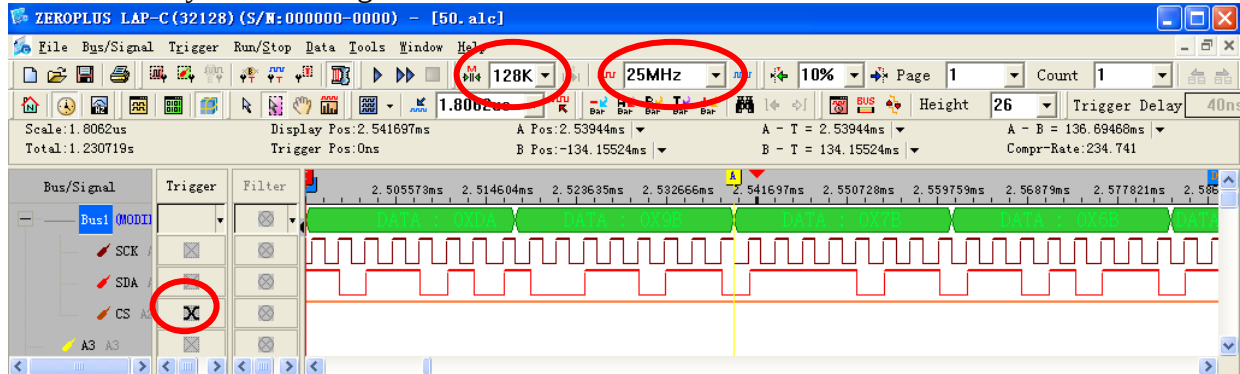
STEP 8. Set the Protocol Analyzer Color.





STEP 9. Following pictures show the completion of the protocol analyzer decoding and the packet list. The trigger condition is set as Either Edge; the memory depth is 128K; the sampling frequency is 25MHz.

Protocol Analyzer Decoding



Packet List

