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

SPECIFICATION

MODEL: SSI Specification

PART NO： 012

VERSION： V1.07

Approver		Check	Design
GM	PM		

Customer Confirm

＊Please fax the file to Zeroplus Technology after signing .

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Content

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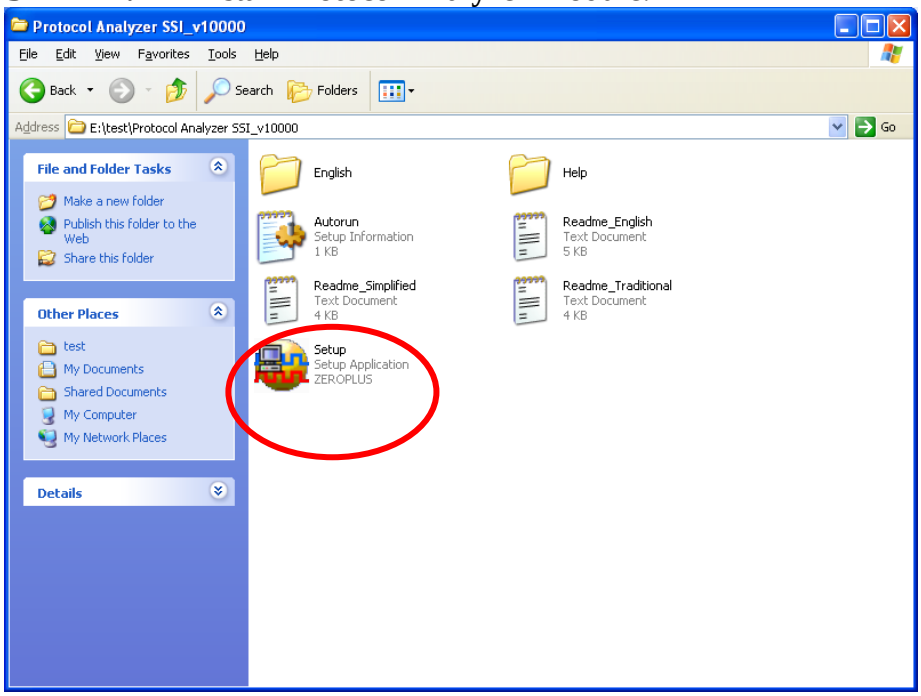
1 Software Installation

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**.

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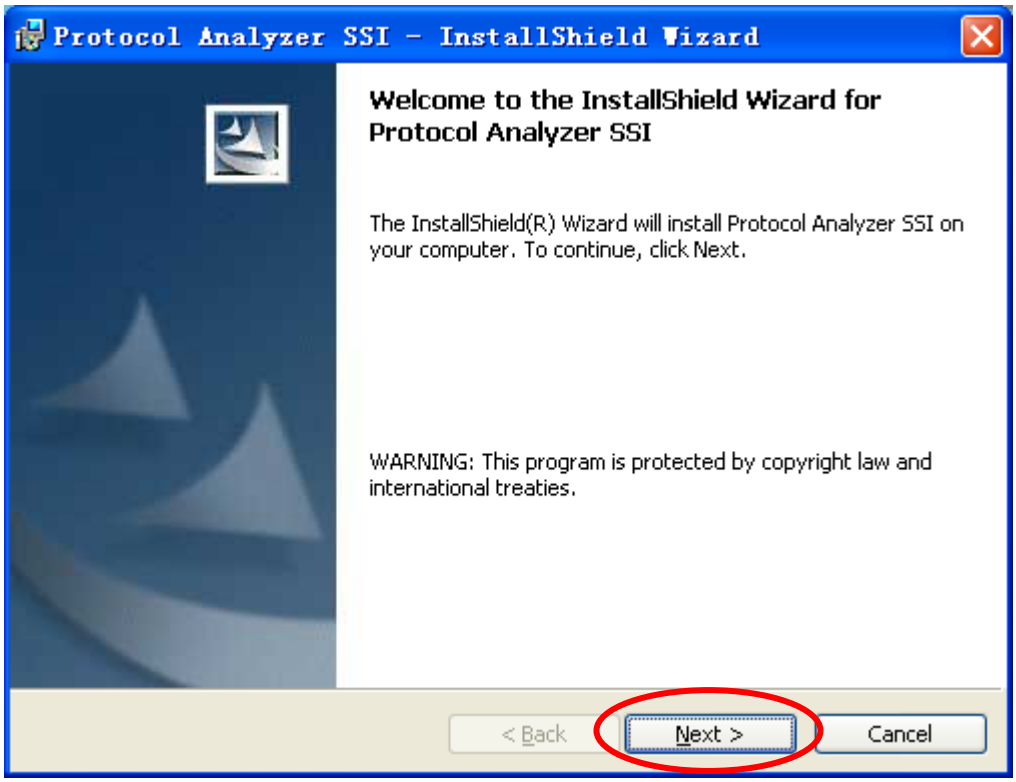
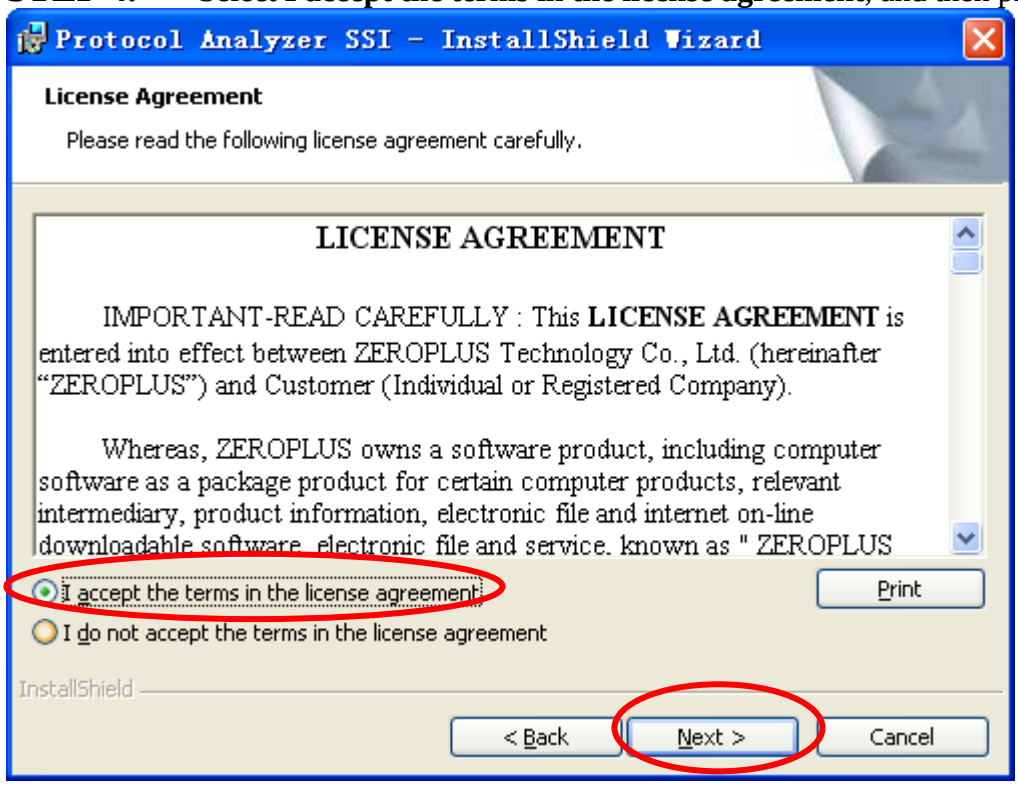
STEP 3. Click **Next**.



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



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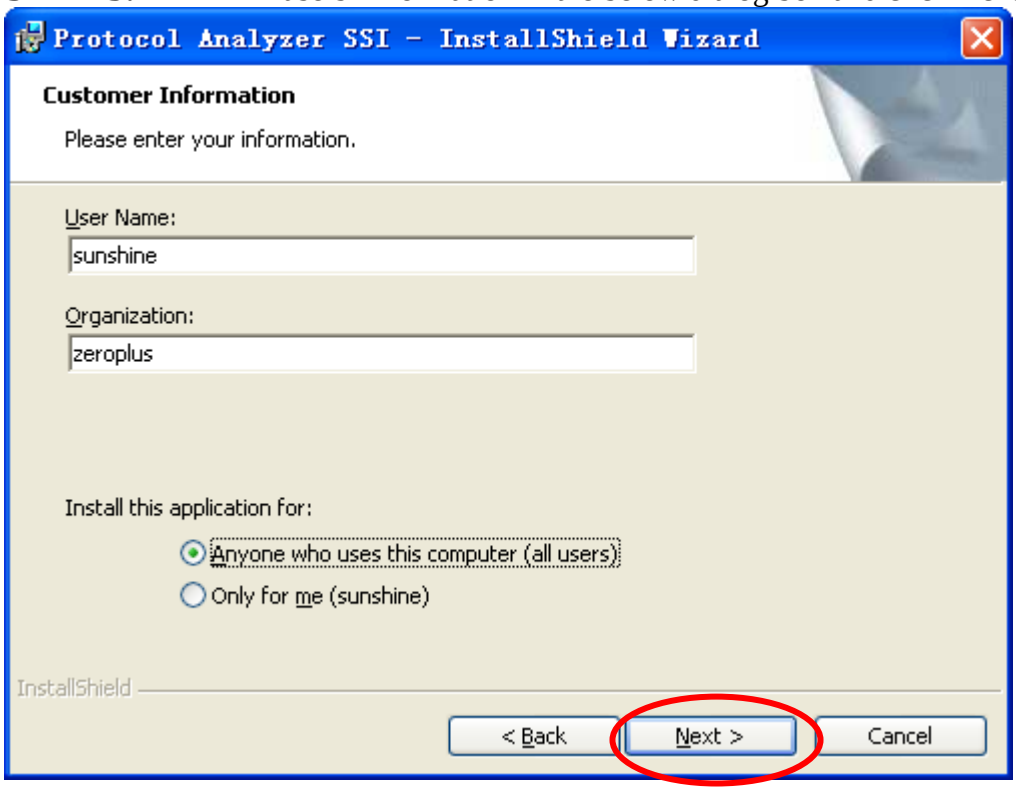
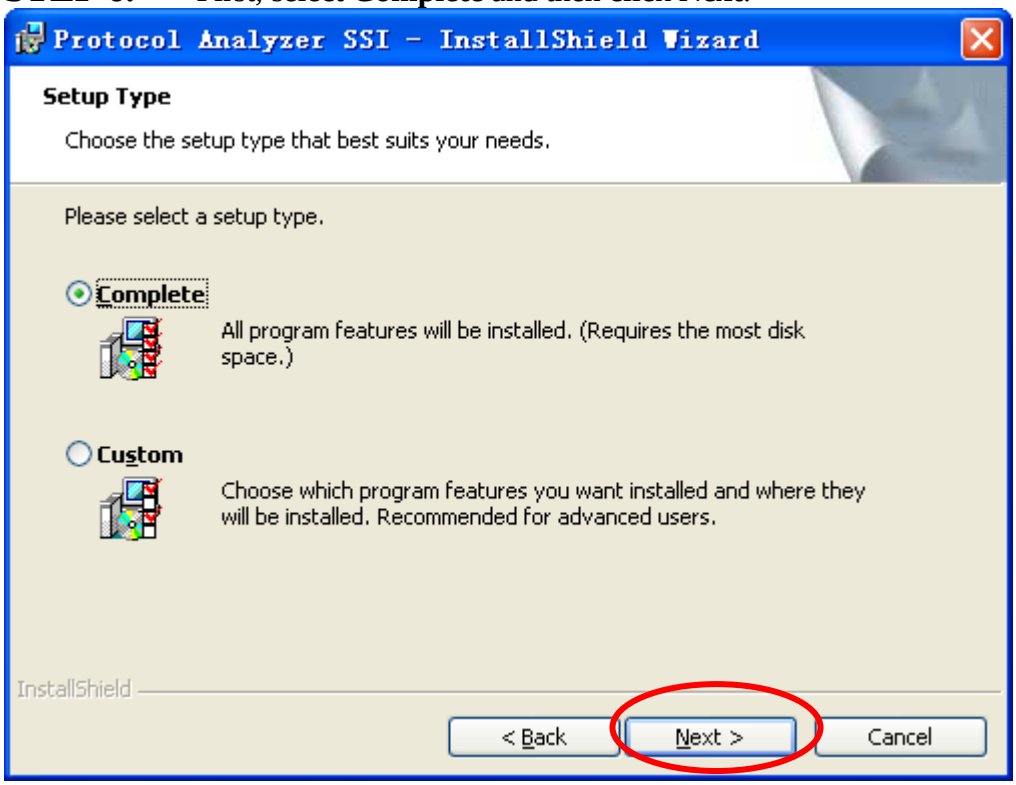
STEP 5. Fill in users' information in the below dialog box and click **Next**.



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



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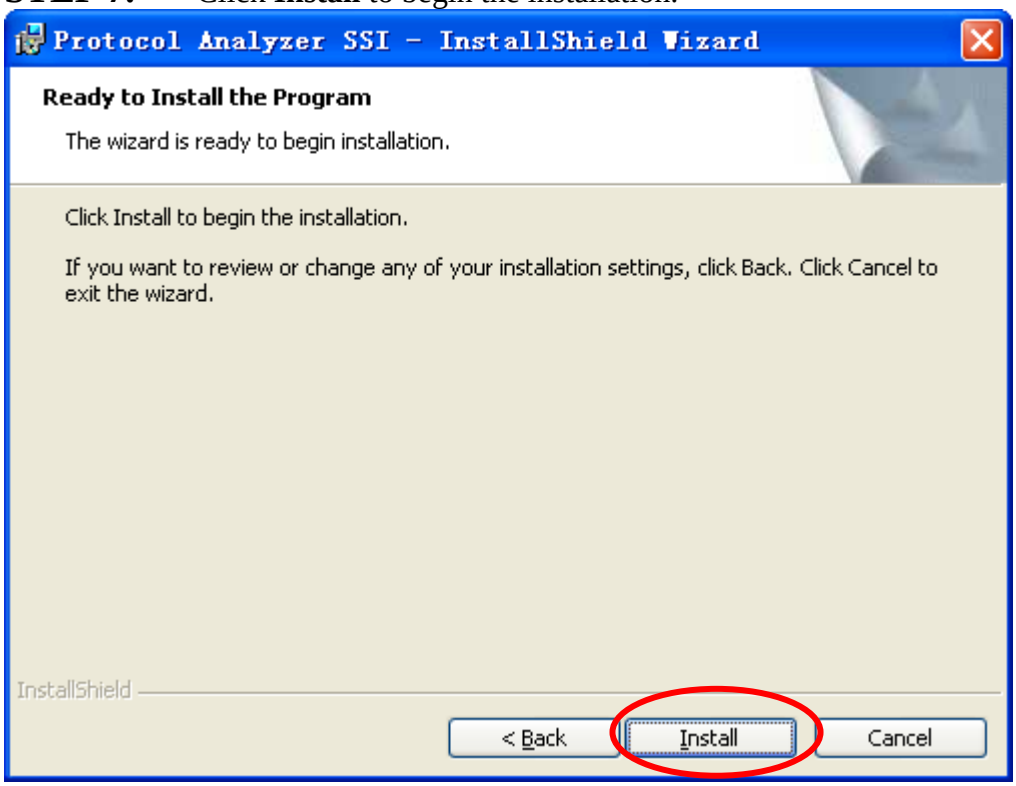
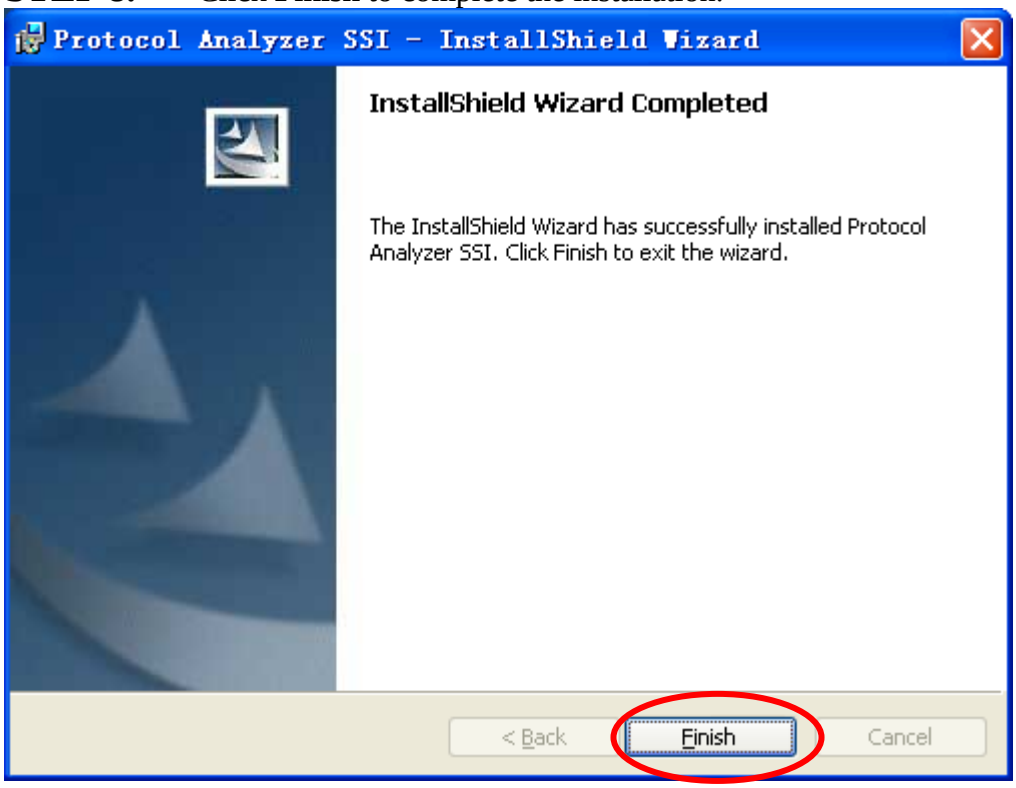
STEP 7. Click **Install** to begin the installation.



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



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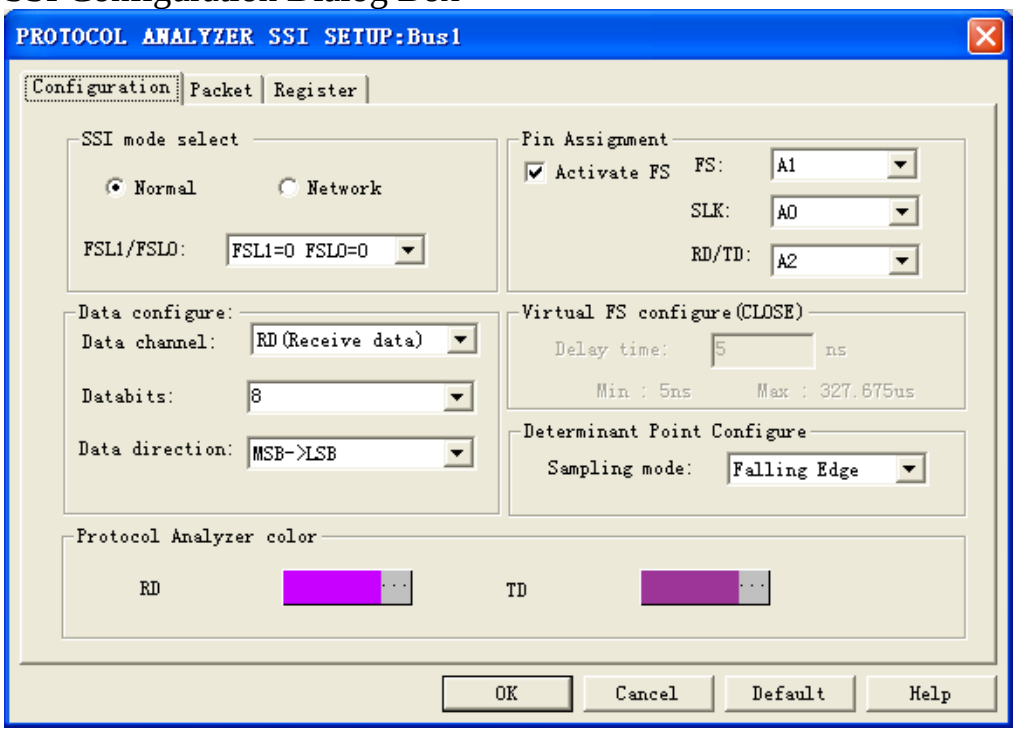
2 User Interface

In the configuration, please refer to below images to select options of setting **SSI Module**.

SSI Configuration Dialog Box



SSI mode select and FSL1/FSL0 setting:

Normal Mode and Network Mode can be chosen, but ON-DEMAND mode is available when decoding through the Virtual Delay Time settings.

Pin Assignment:

1.FS: It is a simultaneous packet. When FS is not activated, words are in grey color. Meanwhile, Delay time can be varied (The delay time can be varied from 5ns to 327.675us). The default is that Activate FS is selected, and its channel is A1.

2.SLK: The default is A0.

3.RD/TD: The default is A2 .

Data configure: It is a setting for data signal. First setting is to choose the decoding protocol analyzer（RD or TD）.

Second setting is to select bits from a list of data bits available. The list includes 8, 12, 16, 24. Users also can enter a value in the range of 4 to 32.

Third setting is for the data direction; the default is MSB->LSB.

Virtual FS configure (CLOSE):

The default of Delay time is 5us.

Determinant Point Configure:

Because data sampling mode can present the SLK Rising/Falling sometimes, users can choose Sampling mode. The default is SLK Falling.

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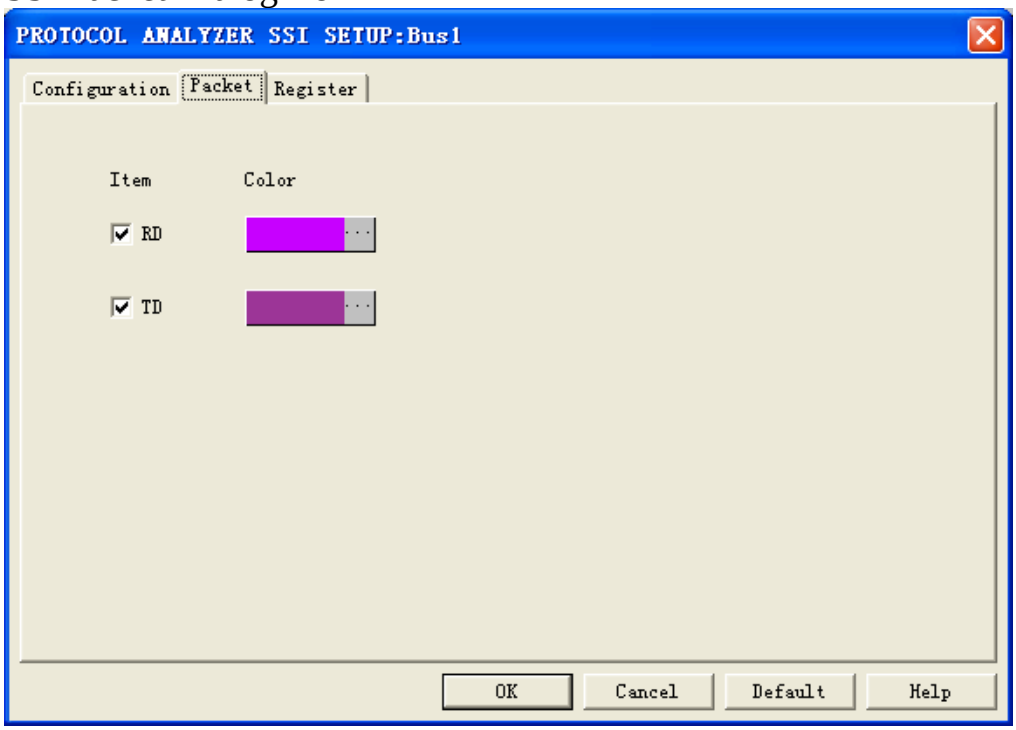
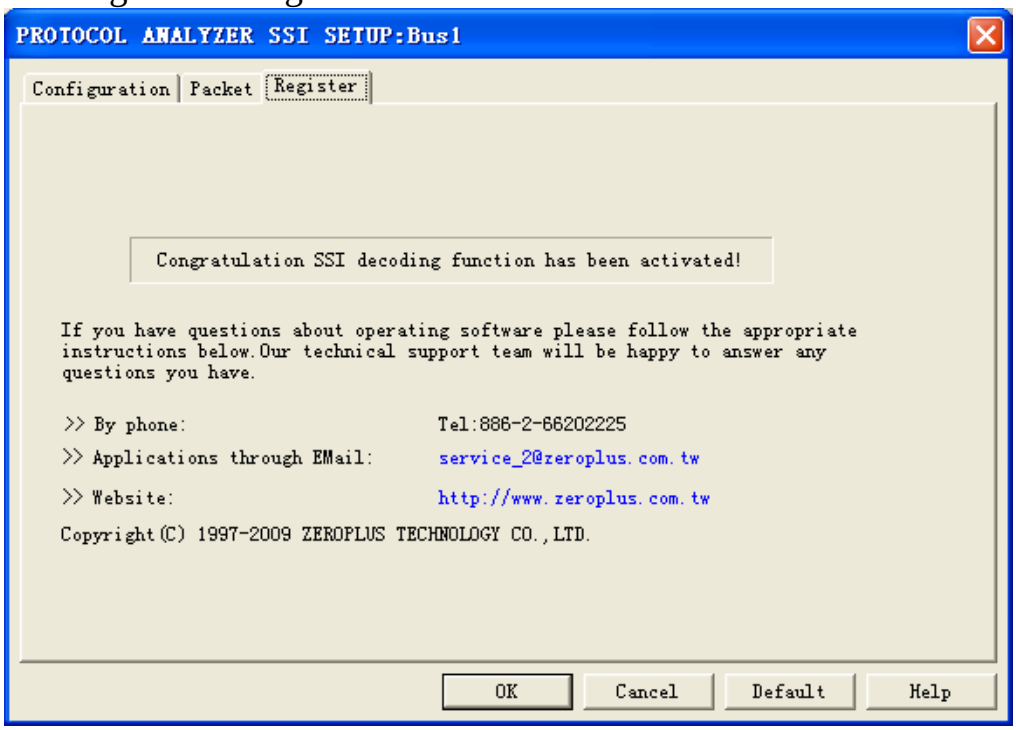
SSI Packet Dialog Box



In the packet dialog box, users can vary the color of items.

SSI Register Dialog Box



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

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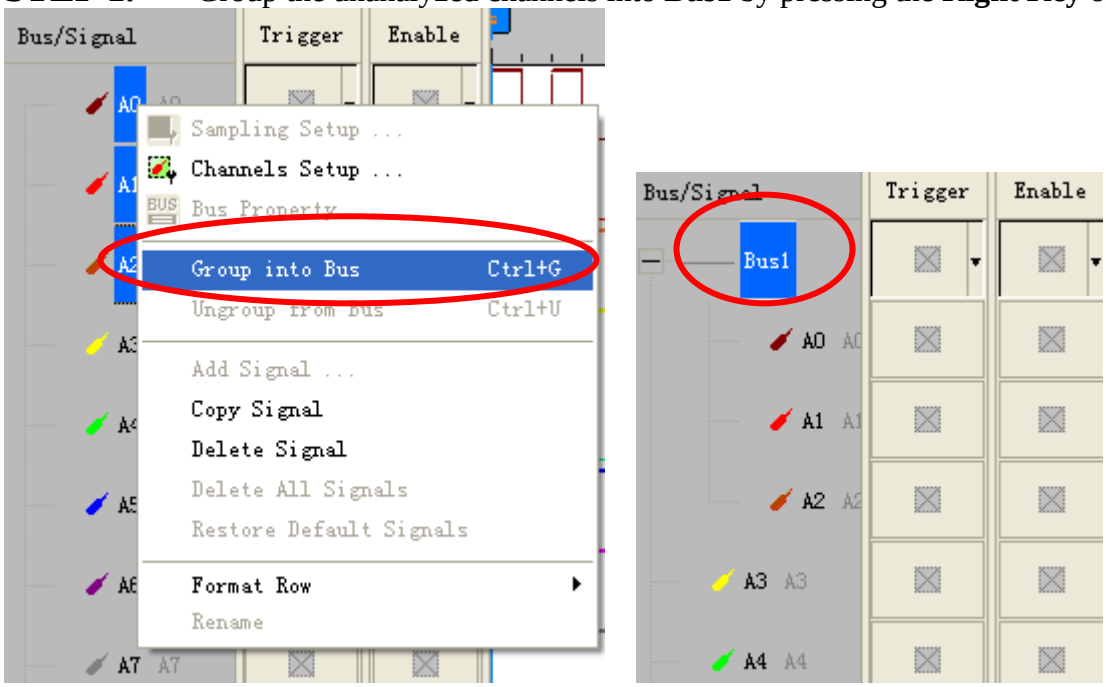
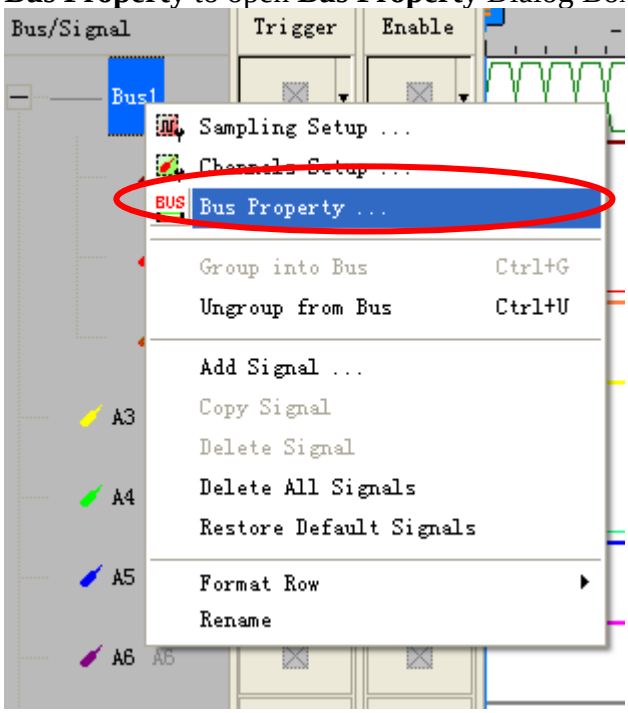
3 Operating Instructions

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



STEP 2. Selected **Bus 1**, then press **Right Key** on the mouse to list the menu. Next, click **Bus Property** to open **Bus Property** Dialog Box.



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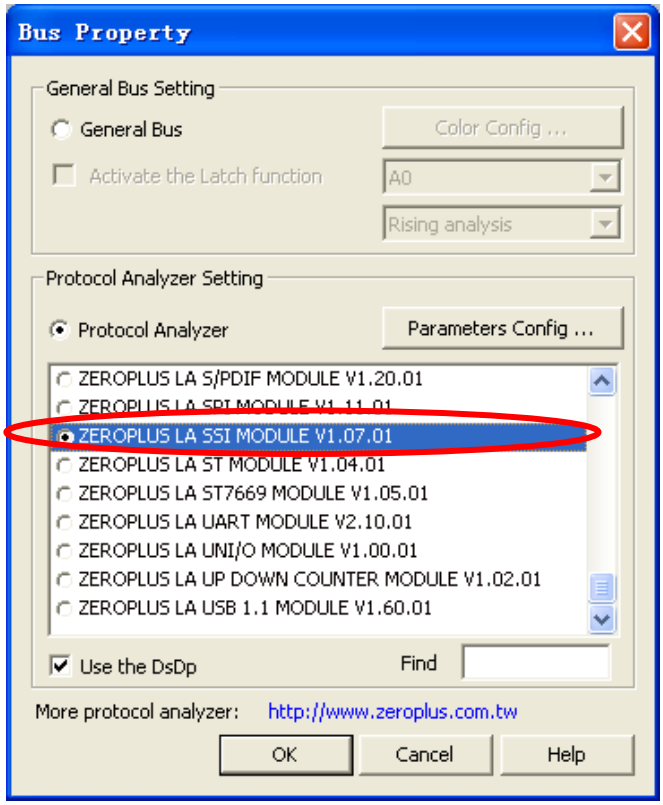
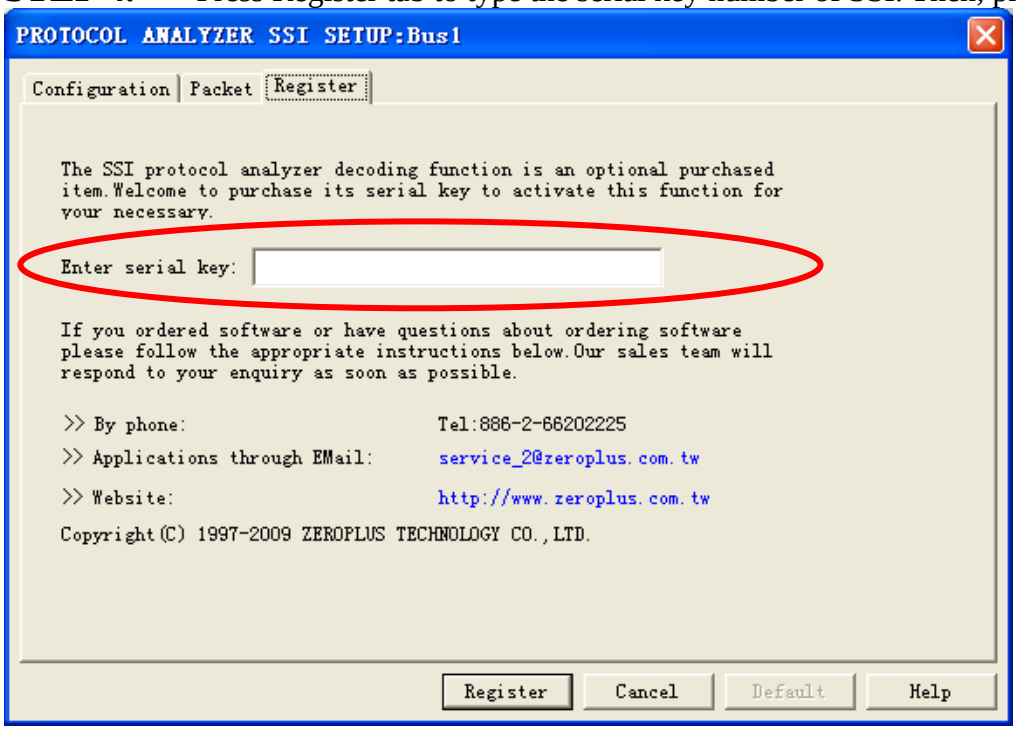
STEP 3. For Protocol Analyzer Setting, select Protocol Analyzer. Then, choose **ZEROPLUS LA SSI MODULE V1.07.01**.



STEP 4. Press Register tab to type the serial key number of SSI. Then, pres **Register**.



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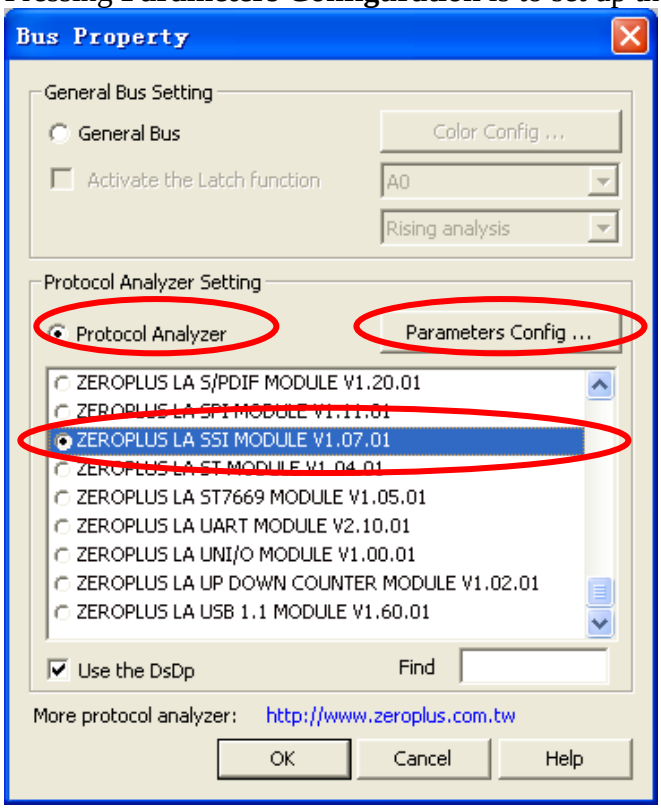
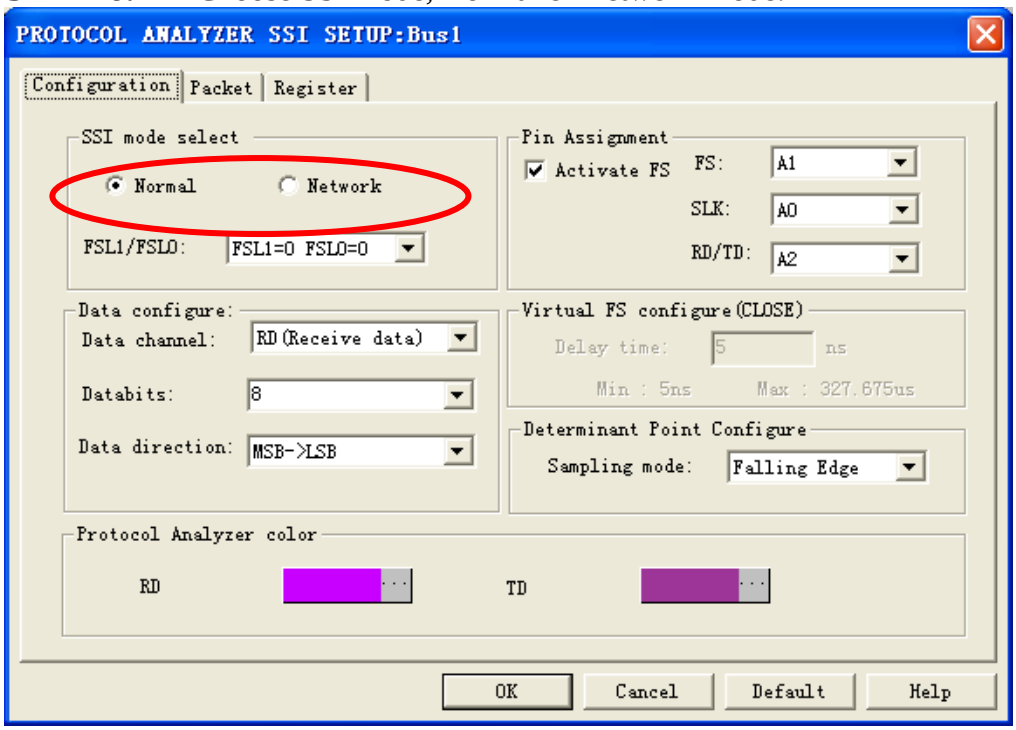
STEP 5. After completing **Register**, it turns to Bus Property dialog box. Pressing **Parameters Configuration** is to set up the parameter of Protocol Analyzer SSI.



STEP 6. Choose SSI mode, Normal or Network Mode.



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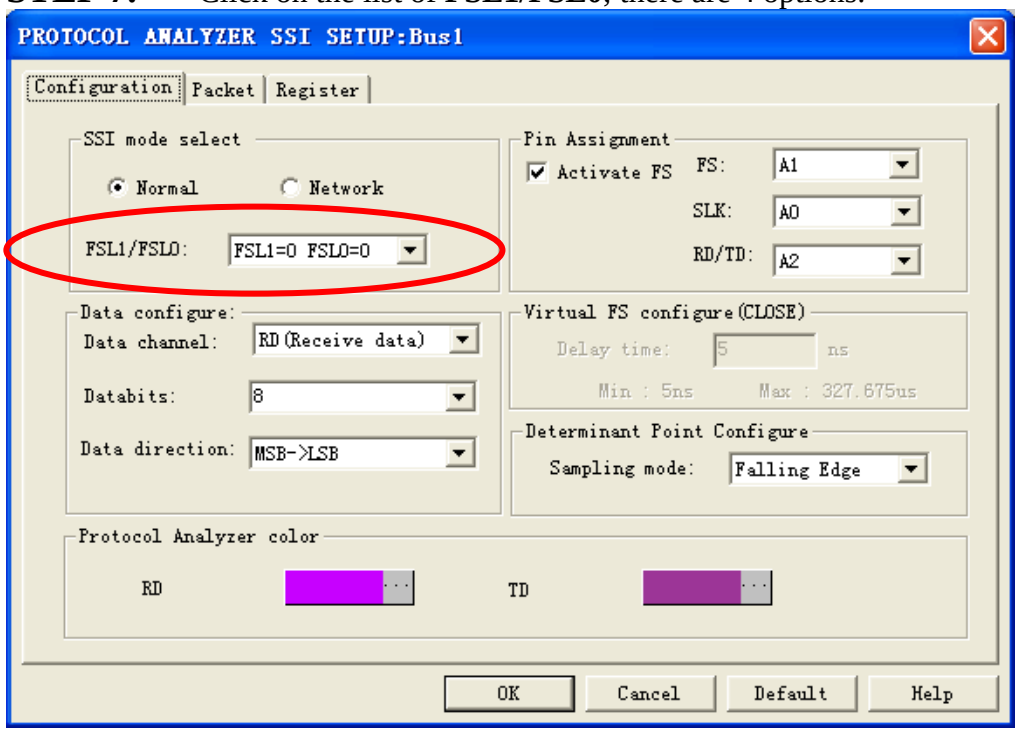
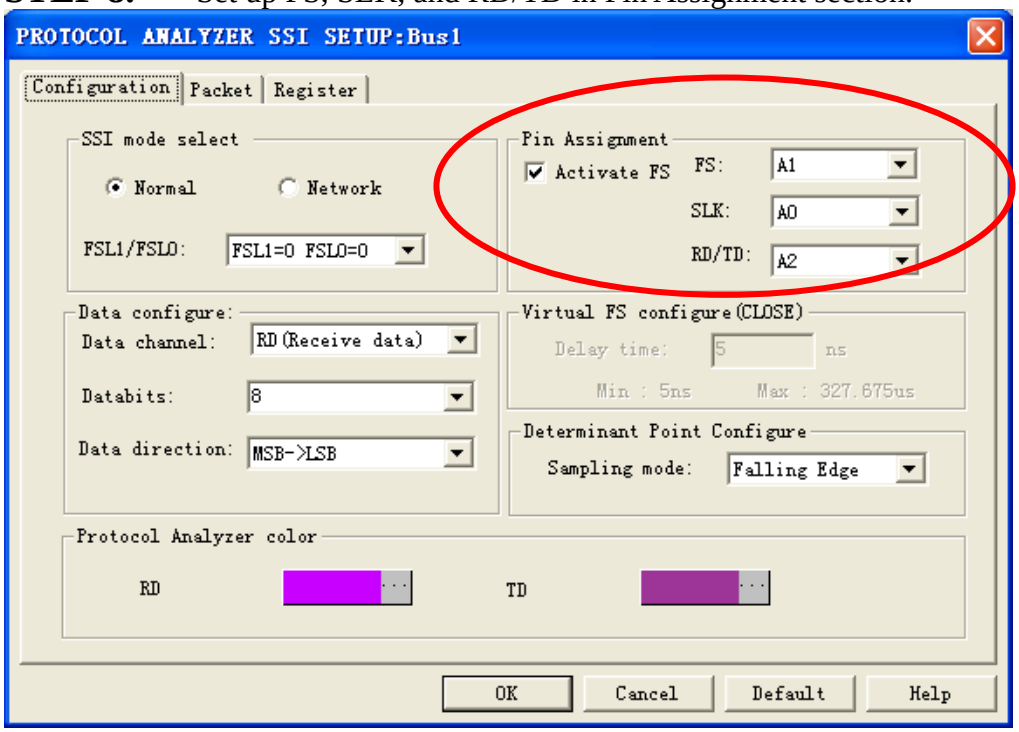
STEP 7. Click on the list of **FSL1/FSL0**; there are 4 options.



STEP 8. Set up FS, SLK, and RD/TD in Pin Assignment section.



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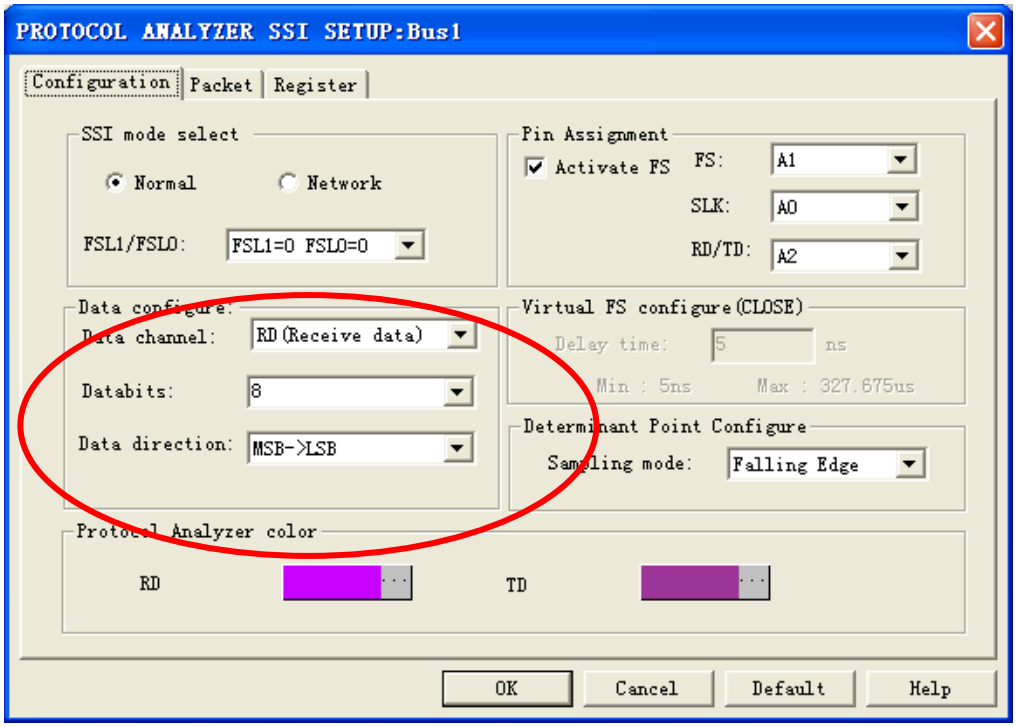
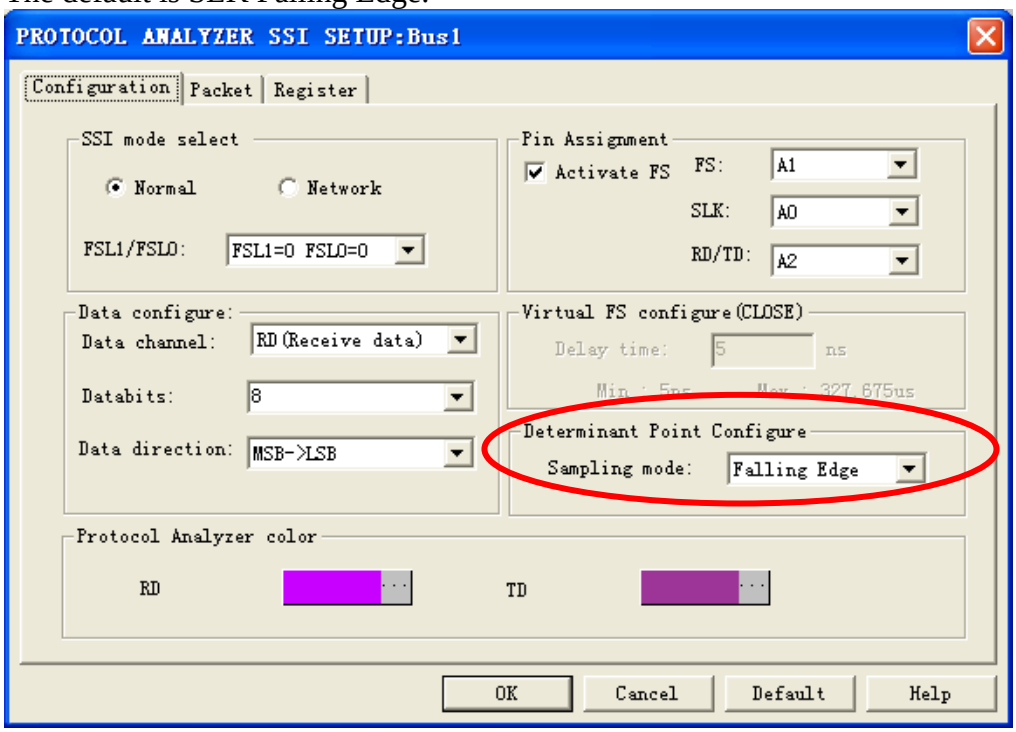
STEP 9. Data configure. Choose Data channel from RD or TD. Enter a value on Databits or select a value on the list. The default of Data direction is MSB->LSB.



STEP 10. Determinant Point Configure. Users can choose SLK Falling or SLK Rising. The default is SLK Falling Edge.



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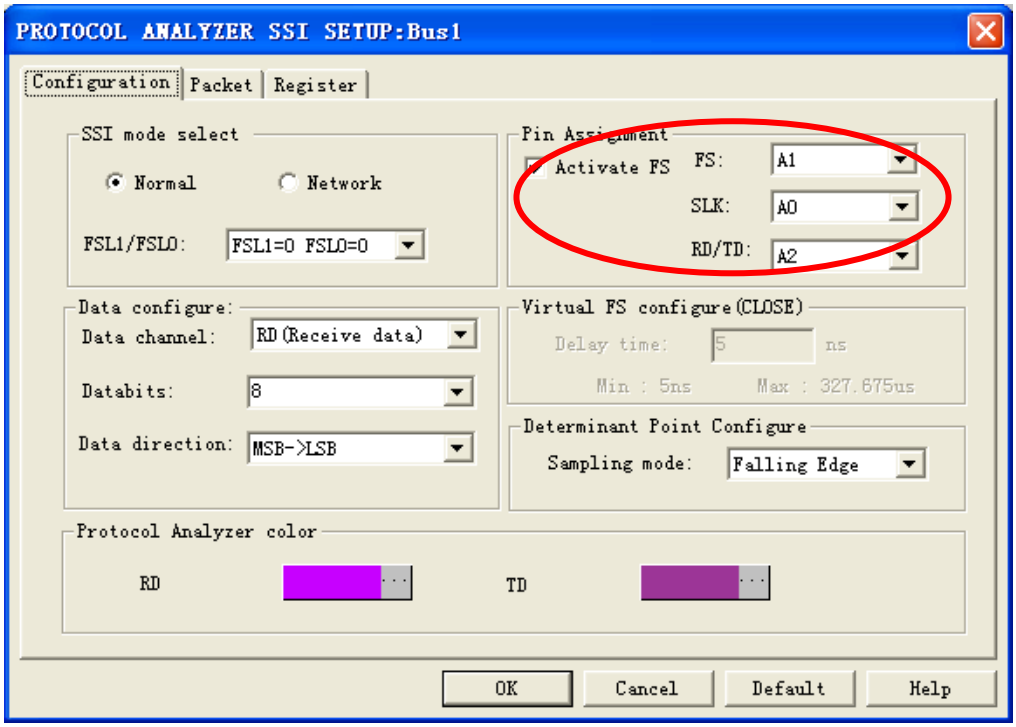
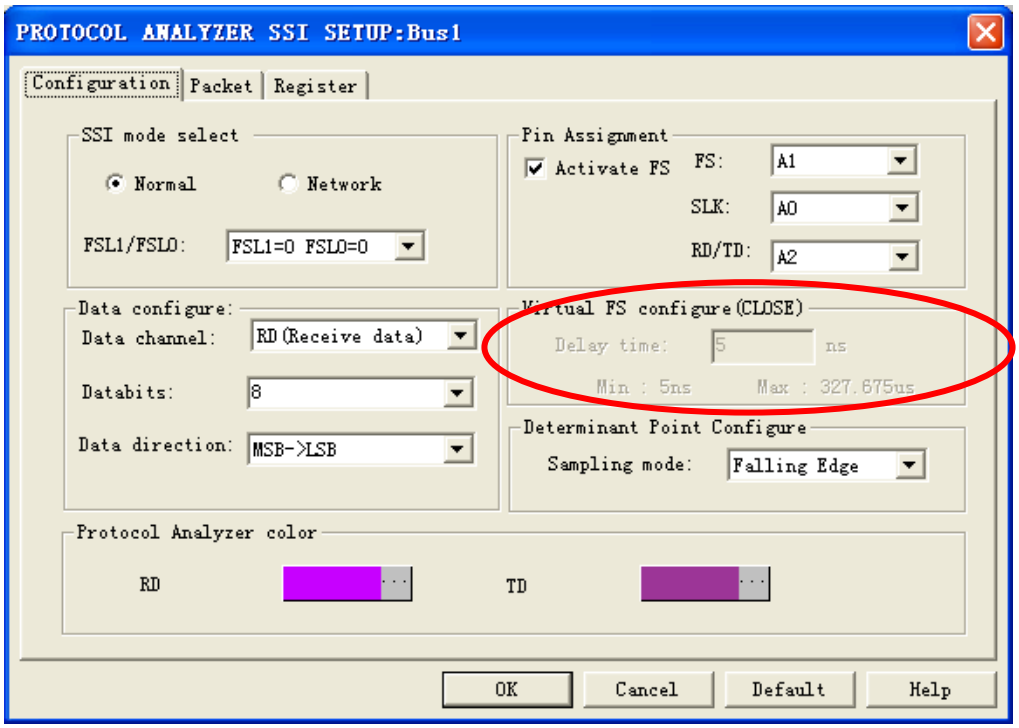
STEP 11. Remove the selection of **Activate FS** when the simultaneous packet signal is unavailable.



STEP 12. Type a value for **Virtual FS configure(CLOSE)**, and the Delay time is more than CLK width.



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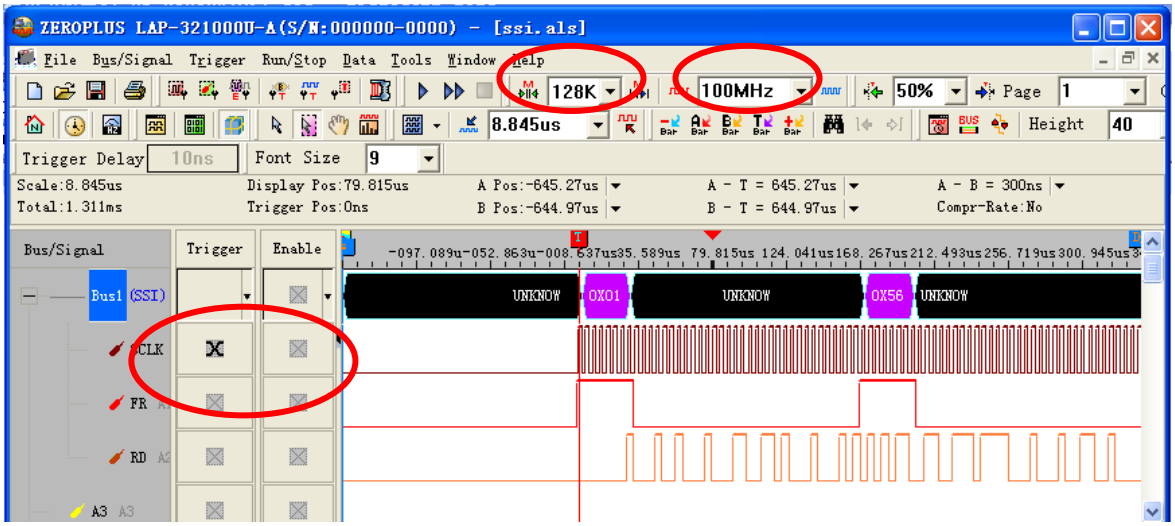
STEP 13. Following picture shows the completion of the protocol analyzer decoding. The trigger condition is set as Either Edge; the memory depth is 128K; the sampling frequency is 100MHz



Following picture shows the waveform display with the packet list.