



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

SPECIFICATION

MODEL: 030 LAP-LPC-M

PART NO : _____

VERSION : V1.20

Approver		Check	Design
GM	PM		

Customer Confirm

* Please fax the file to
Zeroplus Technology after
signing .

2F, NO.123, Jian Ba Rd,
Chung Ho City, Taipei Hsian, R.O.C.

Tel: +886-2-66202225
Fax: +886-2-22234362



Content

1	Software Installation	3
2	User Interface	7
3	Operating Instructions	9

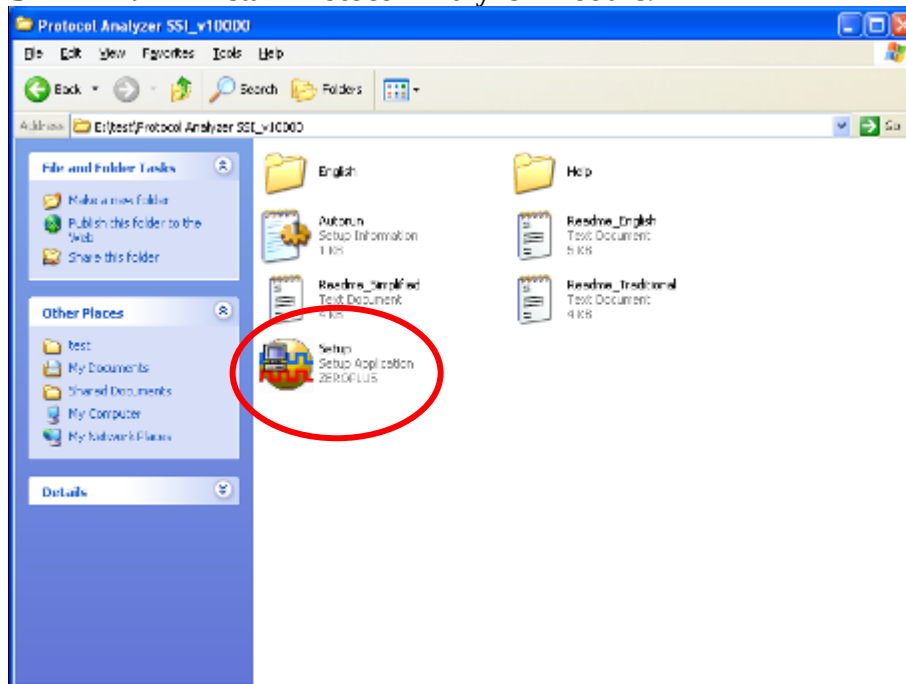


1 Software Installation

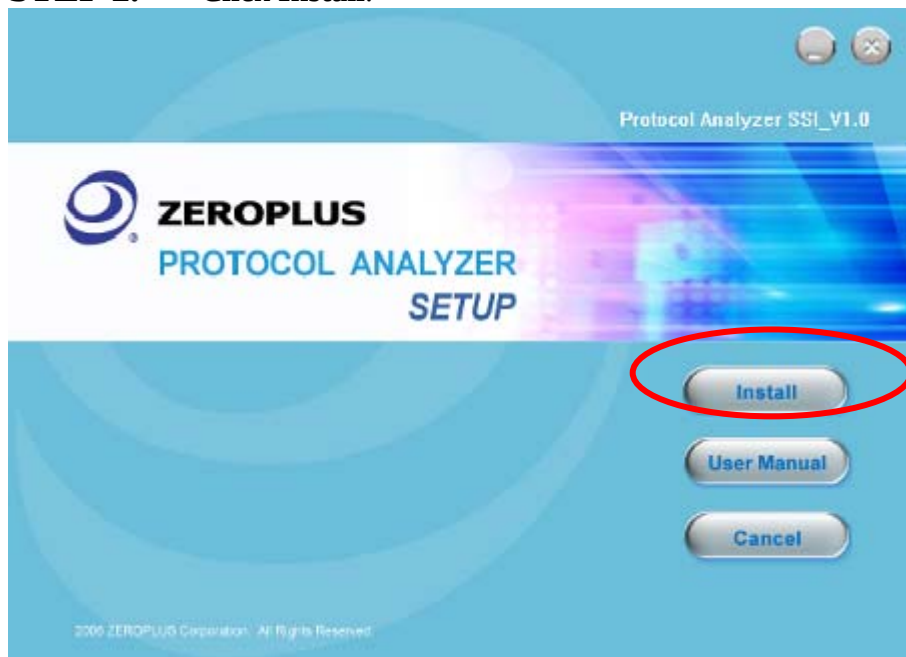
Please install the software as the following steps:

- ※ 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.

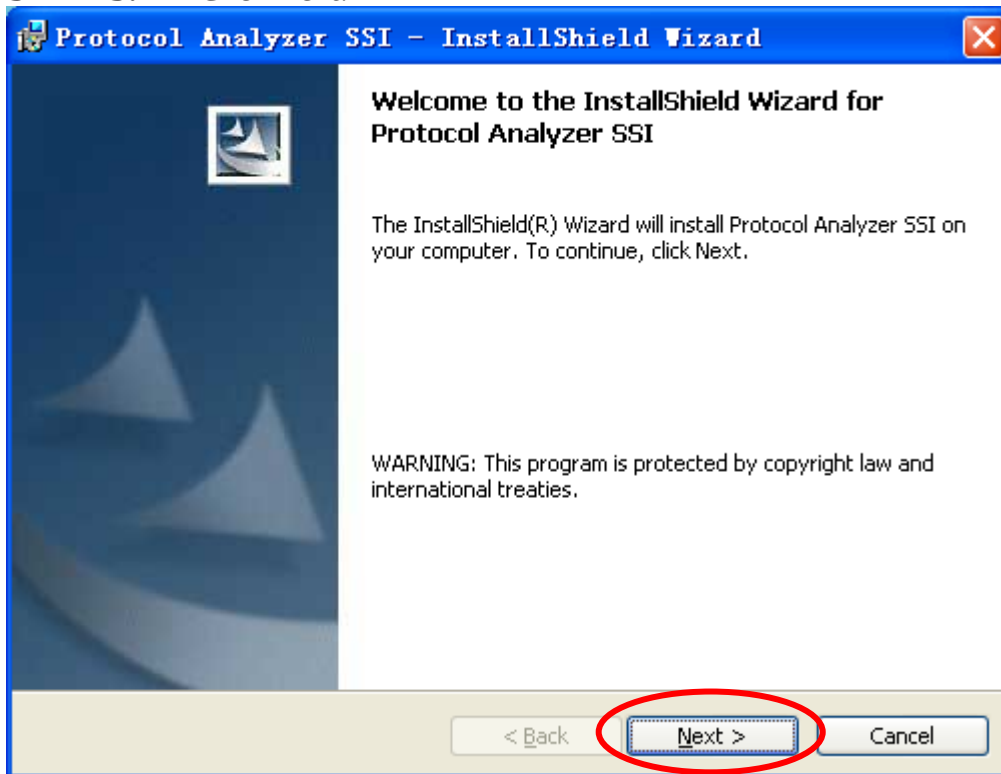


STEP 2. Click **Install**.

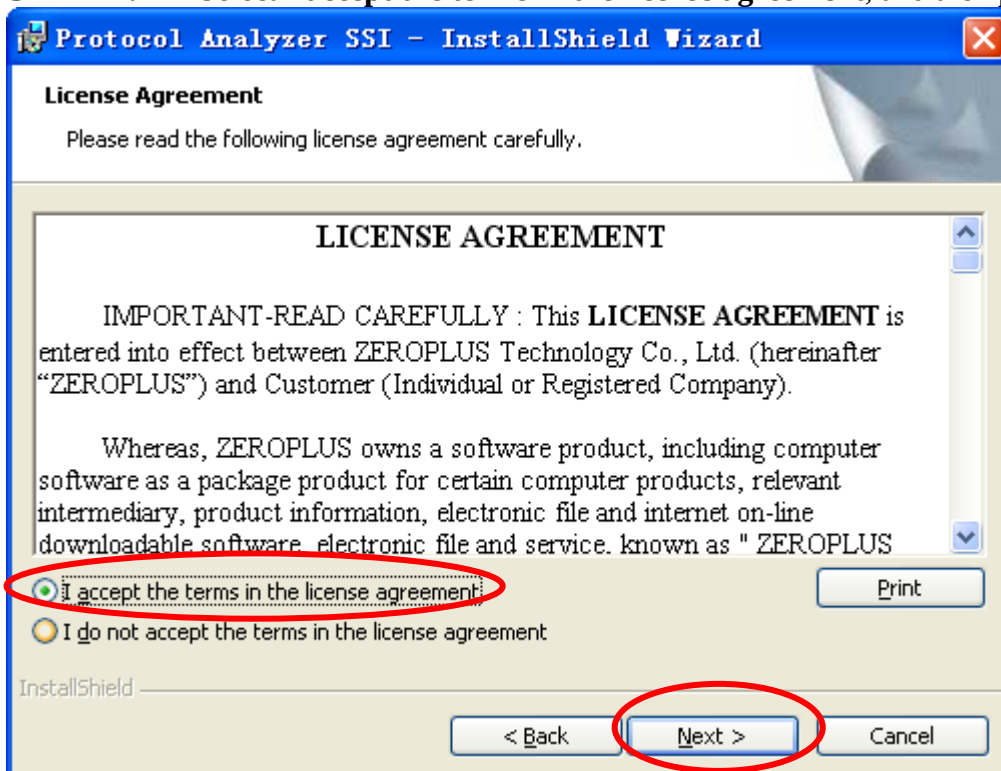




STEP 3. Click Next.



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**.

Protocol Analyzer SSI - InstallShield Wizard

Customer Information

Please enter your information.

User Name:
sunshine

Organization:
zeroplus

Install this application for:

☒ Anyone who uses this computer (all users)

☐ Only for me (sunshine)

InstallShield

< Back Next > Cancel

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

Protocol Analyzer SSI - InstallShield Wizard

Setup Type

Choose the setup type that best suits your needs.

Please select a setup type.

☒ **Complete**
All program features will be installed. (Requires the most disk space.)

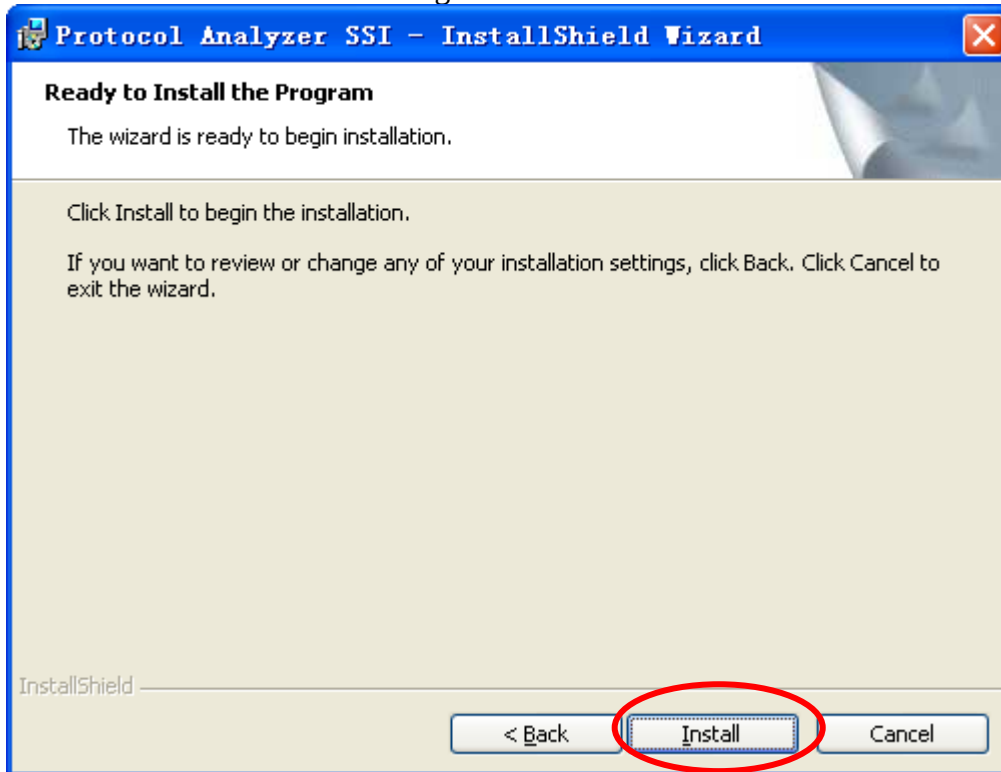
☐ **Custom**
Choose which program features you want installed and where they will be installed. Recommended for advanced users.

InstallShield

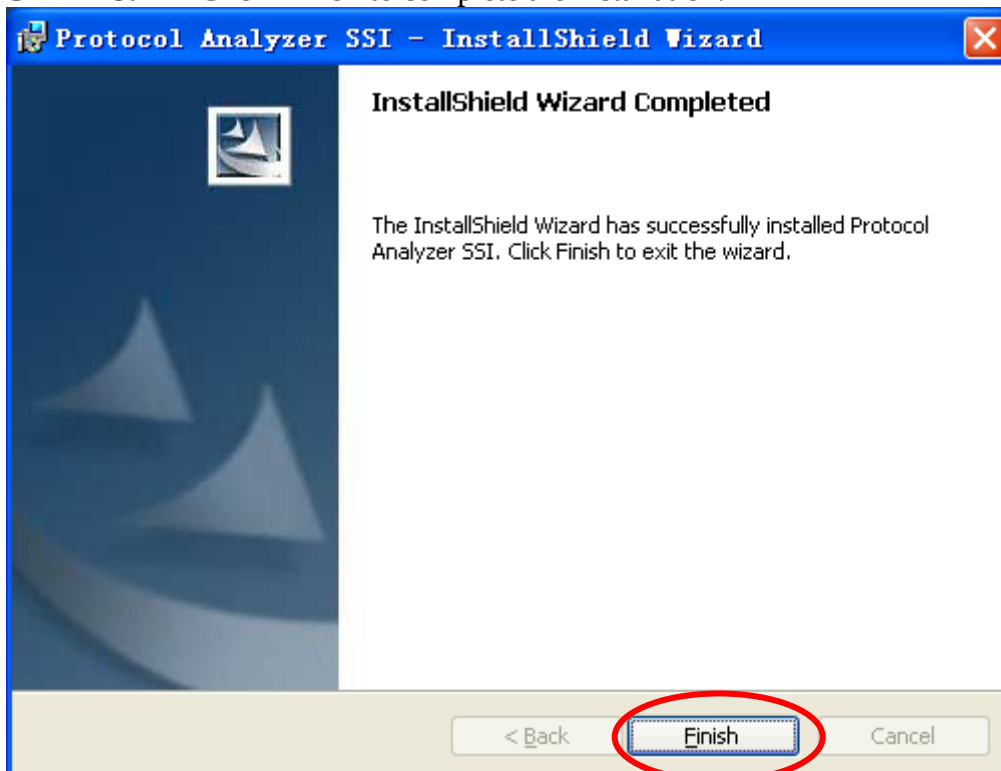
< Back Next > Cancel



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



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





2 User Interface

In the configuration dialog box, please refer to the below images to select options of setting **PCM MODULE**.

PCM Configuration dialog box

Pin Assignment(PCM Channels):

1. SCLK is the synchronous clock signal line; its default is A0.
2. FS is the frame synchronous signal line; its default is A1.
3. DR/DT is the data receiving /data transmission signal line; the default is A2.

Decode DT/DR:

Signals transport under DT mode, and signals receive under DR mode.

Data Settings:

1. Data Length: The length is not more than 56bit.
2. Data Number: The count can not exceed 128byte.
3. Short/ Long Frame Data: The space can not exceed 255bit.

Sampling Settings:

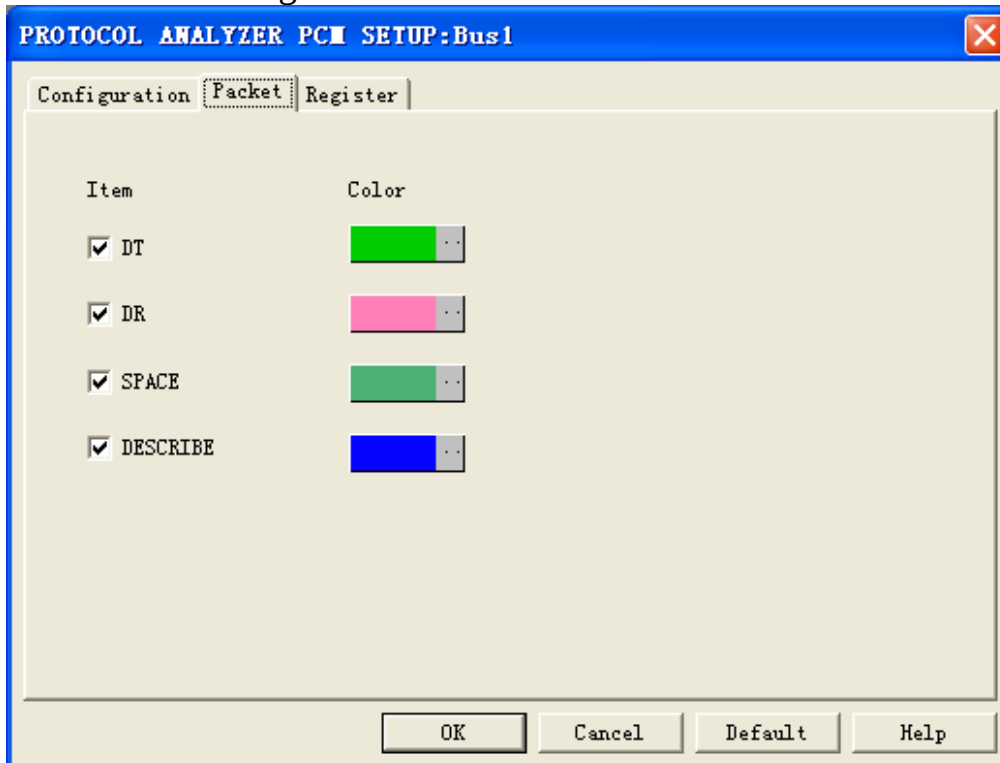
1. Sampling Edge: Sampling position is set as Rising Edge or Falling Edge.
2. Direction: There are two options, MSB->LSB and LSB->MSB.

Protocol Analyzer Color:

Set up the color for the protocol analyzer.

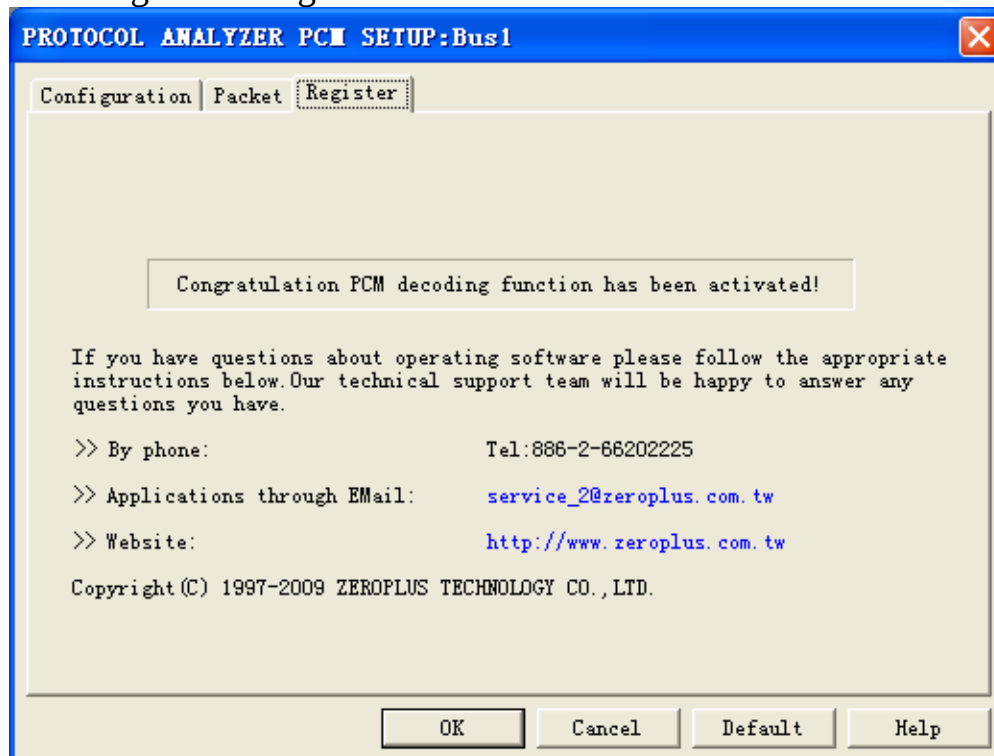


PCM Packet dialog box



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

PCM Register dialog box

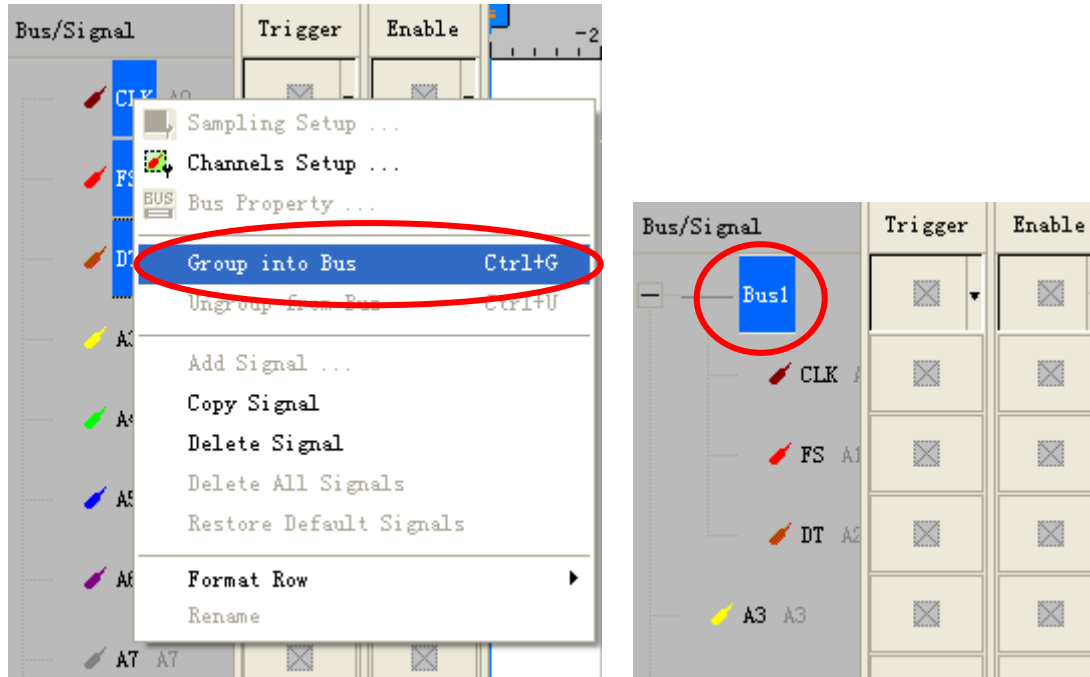


There is ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

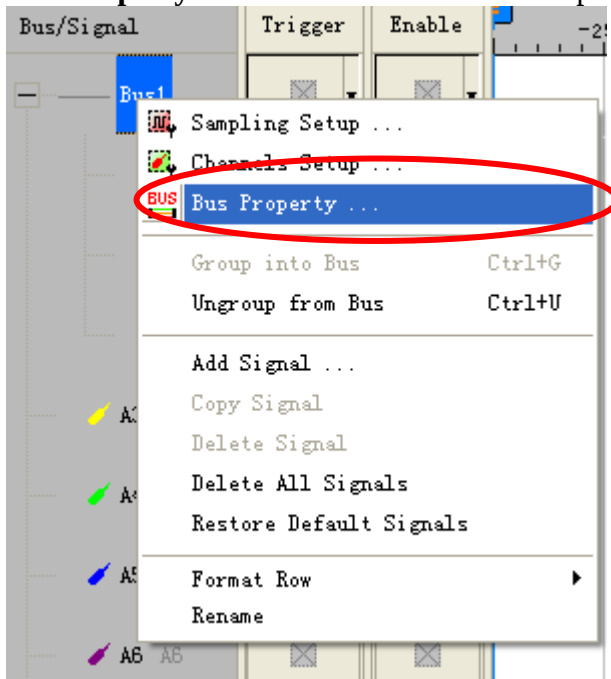


3 Operating Instructions

STEP 1. At first, group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse.

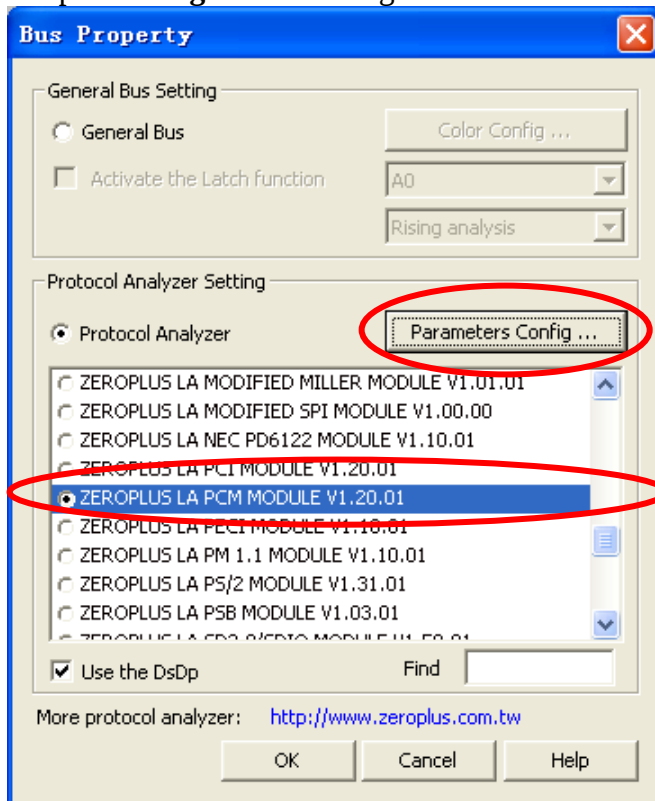


STEP 2. Select **Bus1**, then press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus bar** on the toolbar to open **Bus Property** dialog box.

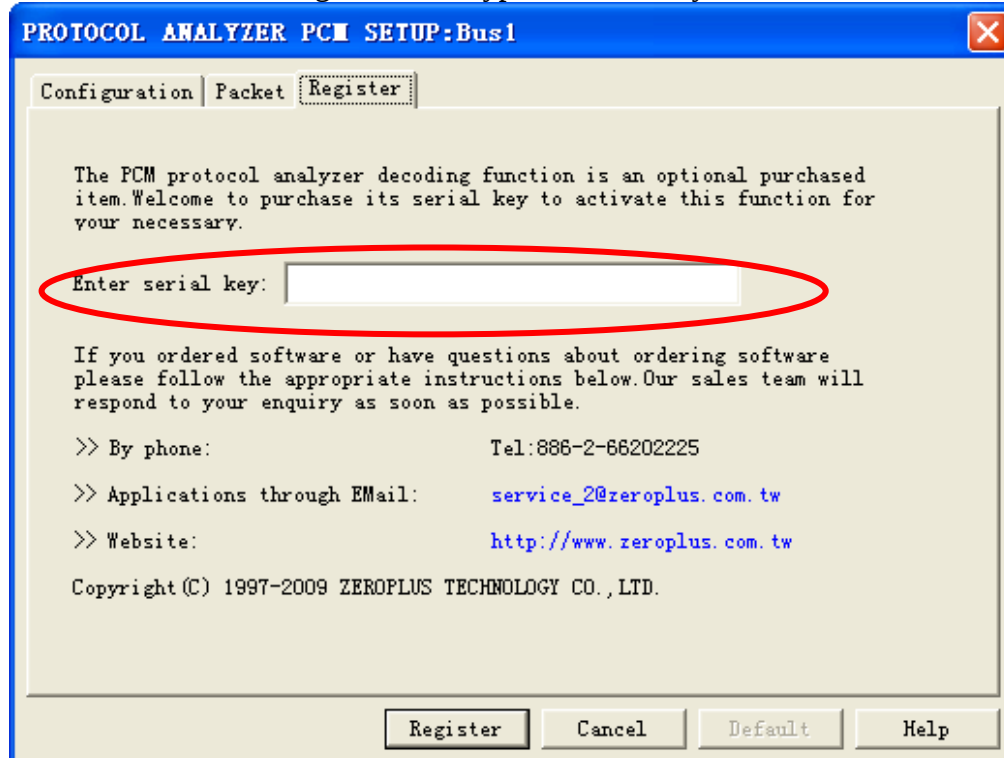




STEP 3. For Protocol Analyzer PCM Parameters Configuration, select Protocol Analyzer, and then select **ZEROPLUS LA PCM MODULE V1.20.01**. Next click **Parameters Configuration** to open **Configuration** dialog box.

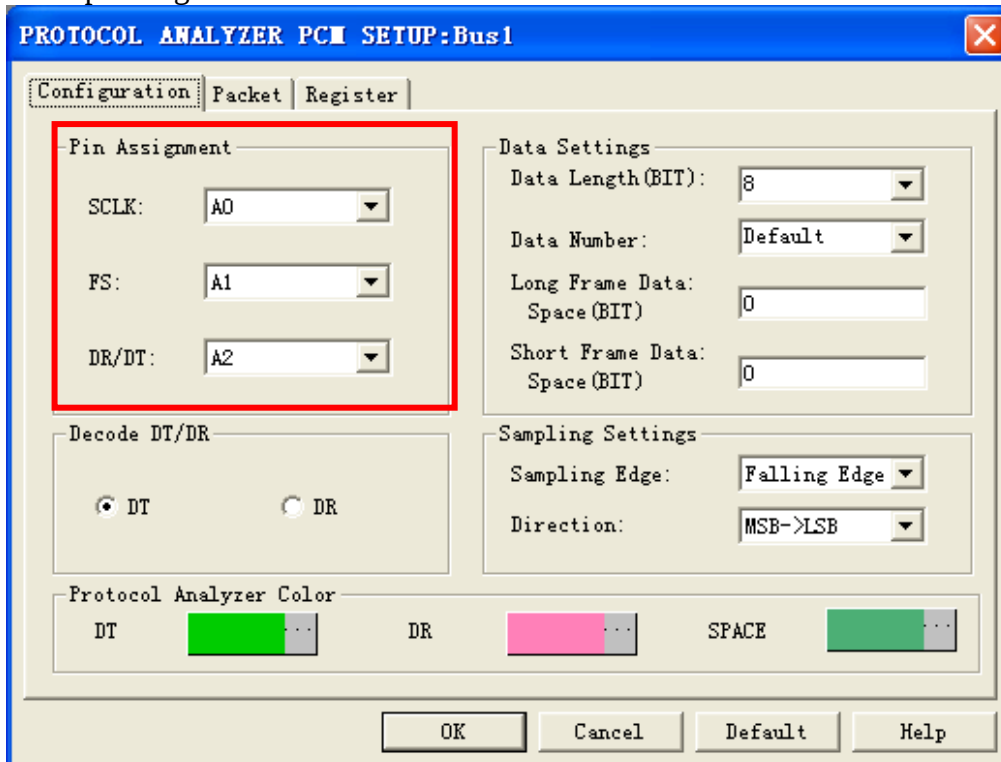


STEP 4. Click Register tab to type the serial key number of **PCM**. Then, press **Register**.

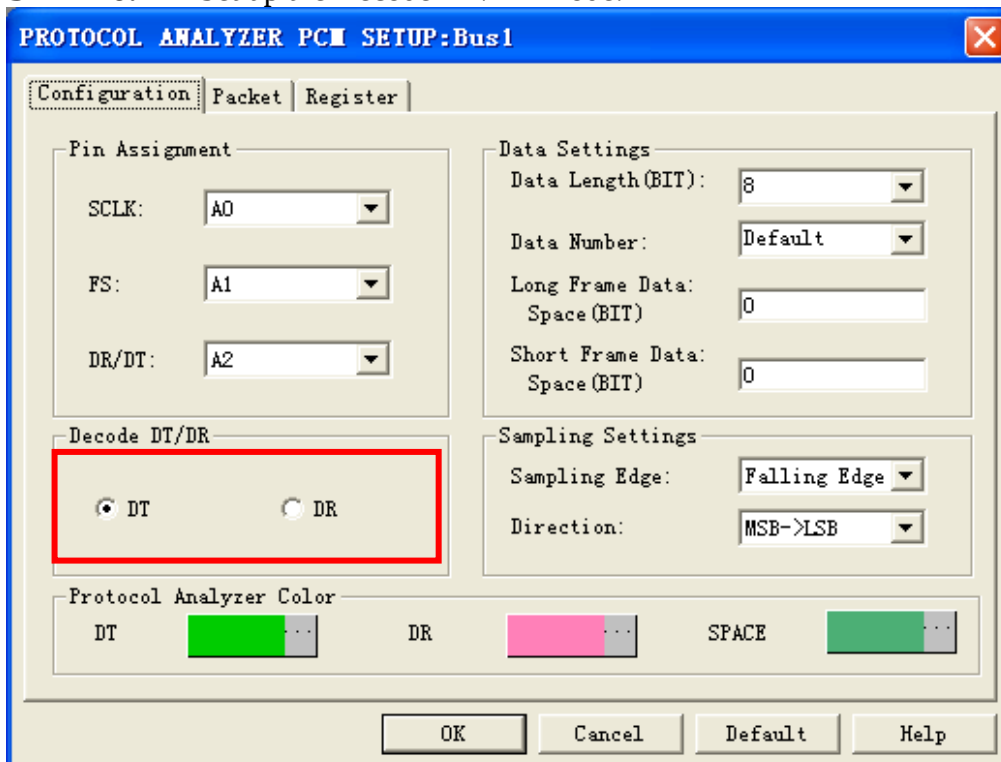




STEP 5. After completing register, turn to Configuration dialog box; select the corresponding channels for **PCM**.

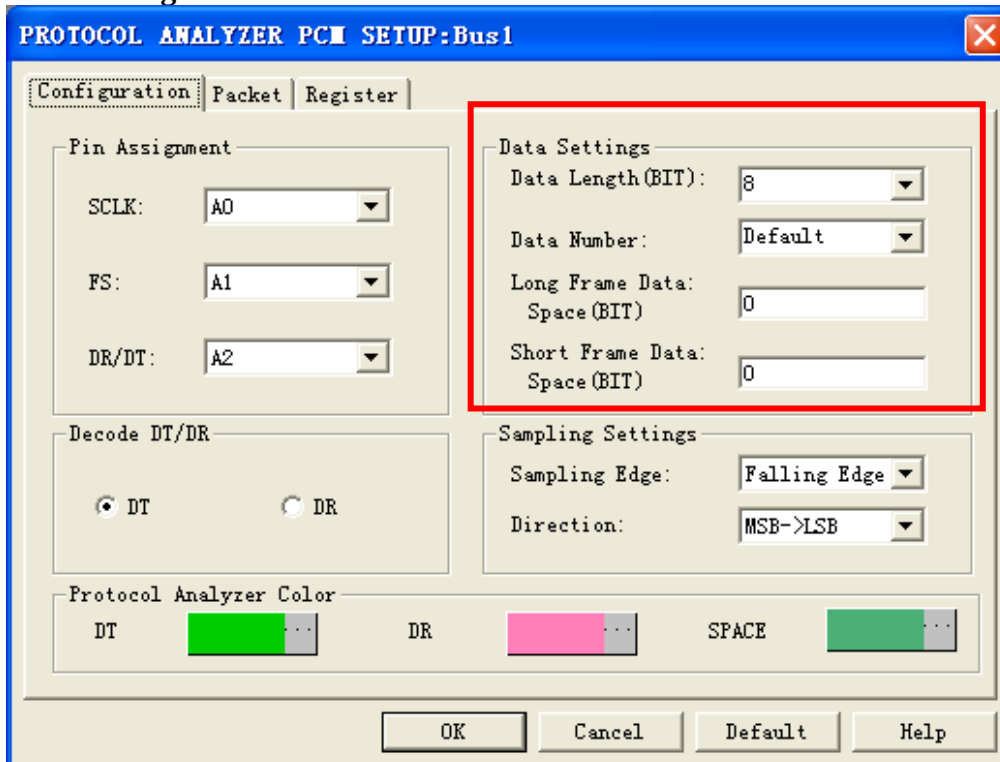


STEP 6. Set up the Decode DT/DR mode.

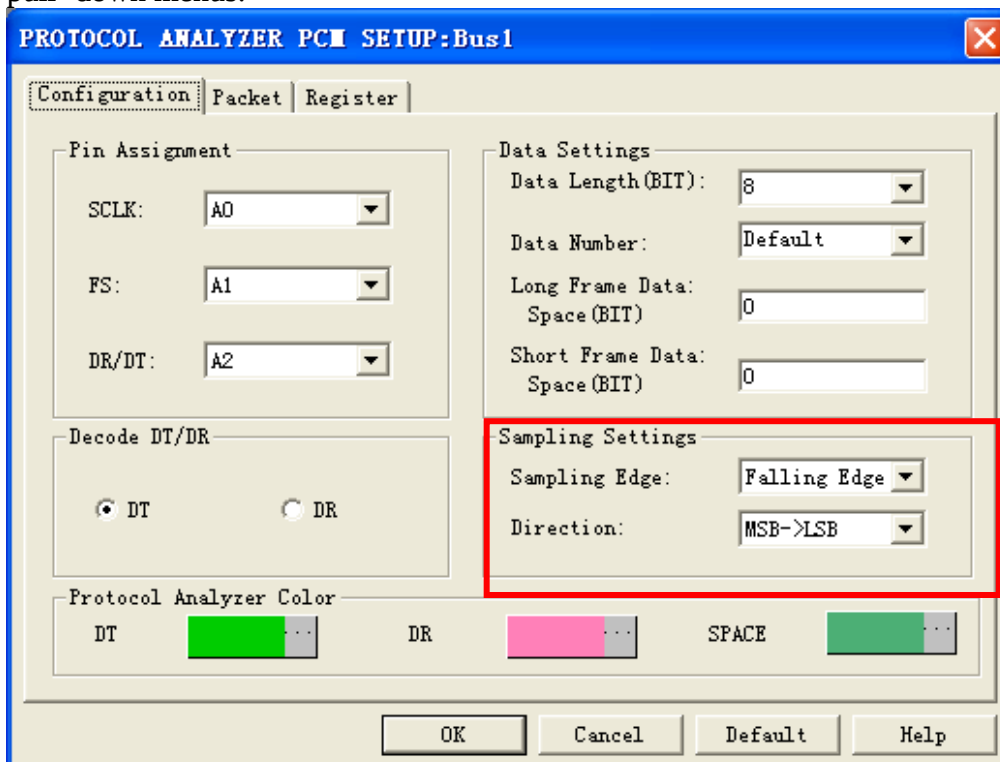




STEP 7. Set up the data length, data number, long frame data and short frame data for Data Settings.

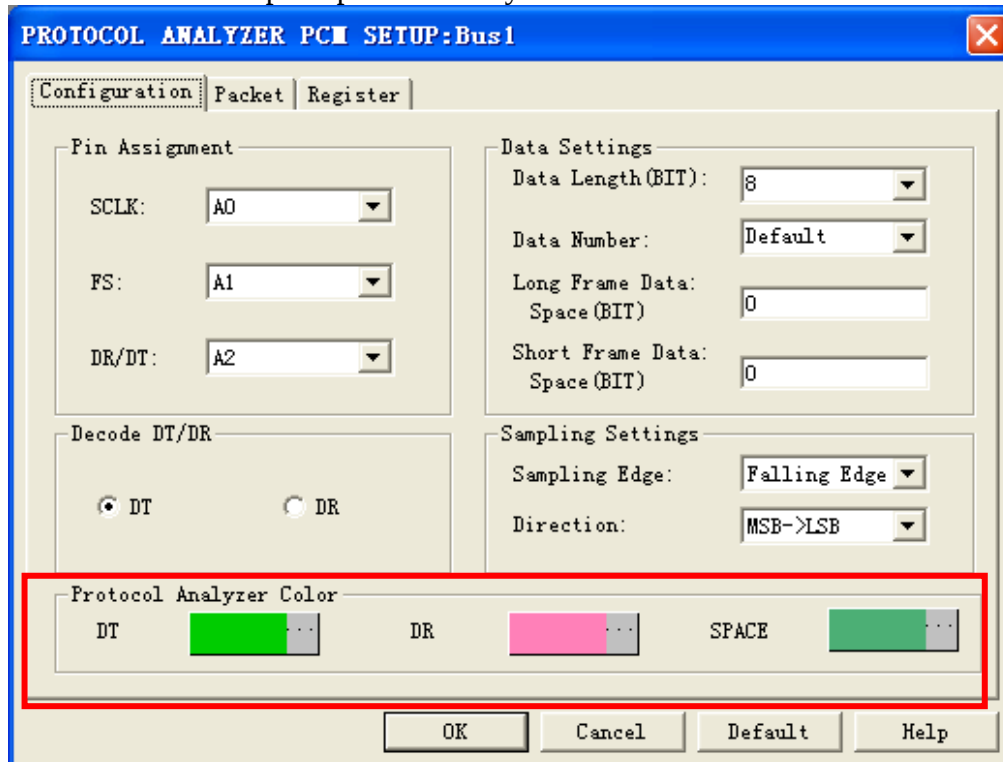


STEP 8. Sampling Settings. Select the sampling edge and data direction from their pull- down menus.



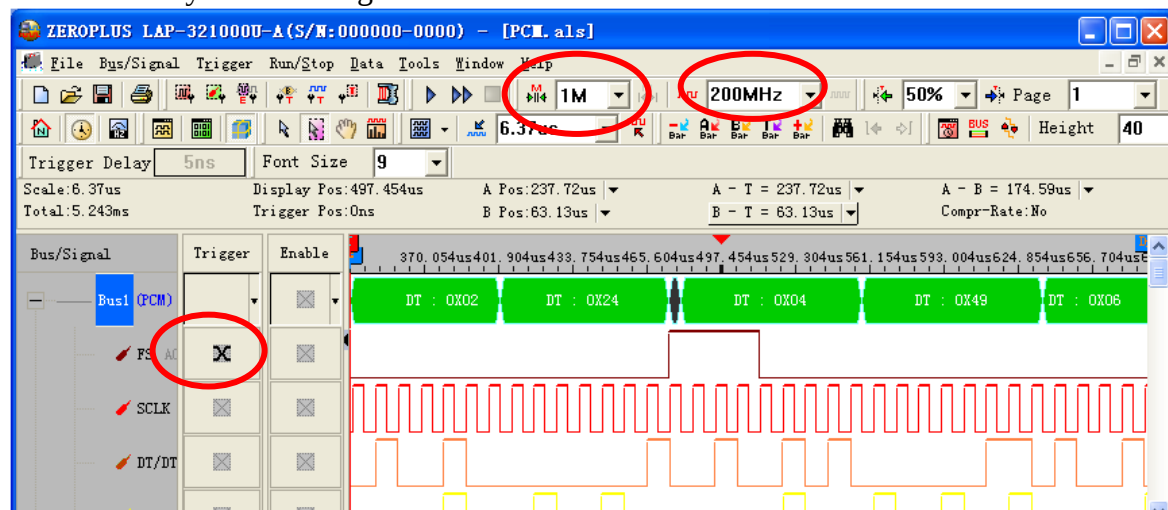


STEP 9. Set up the protocol analyzer color.



STEP 10. 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 1M; the sampling frequency is 200MHz

Protocol Analyzer Decoding





Packet List

