



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

# SPECIFICATION

**MODEL: B10010-LAP-I2C(EEPROM 24LCS61/24LCS62)-M**

**PART NO:** \_\_\_\_\_

**VERSION:** V1.00

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 Download .....	3
2	Software Installation.....	6
3	Software Register .....	10
4	User Interface .....	13
5	Operating Instructions .....	18



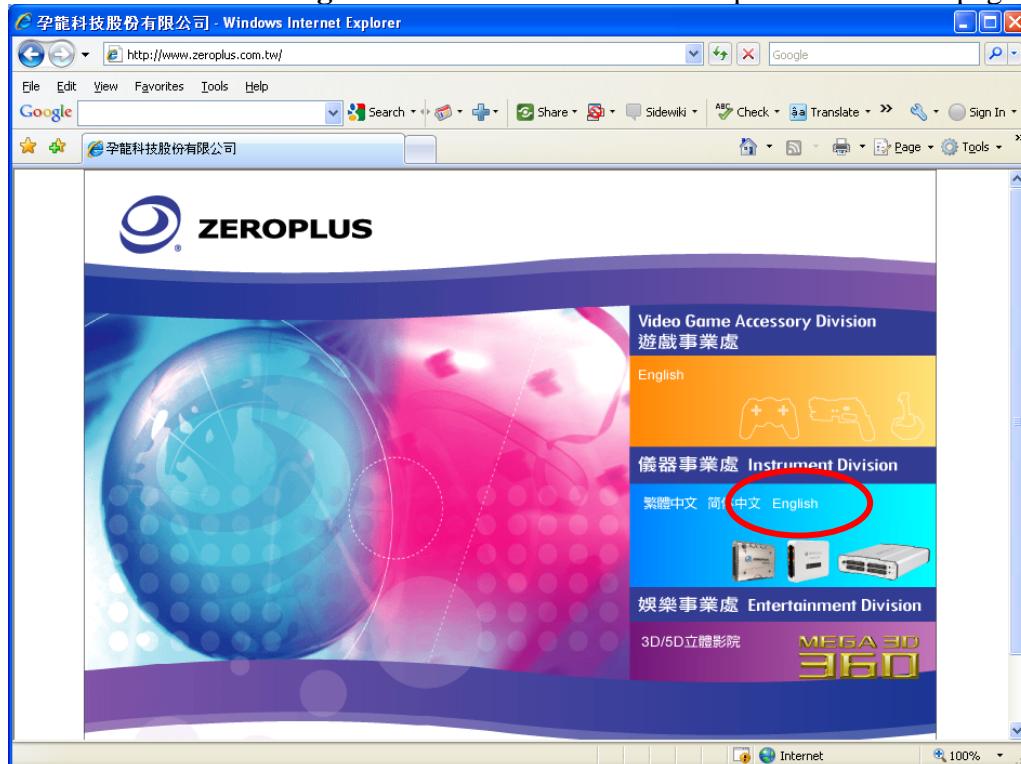
## 1 Software Download

Please download the software as the following steps:

**Remark:** 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.

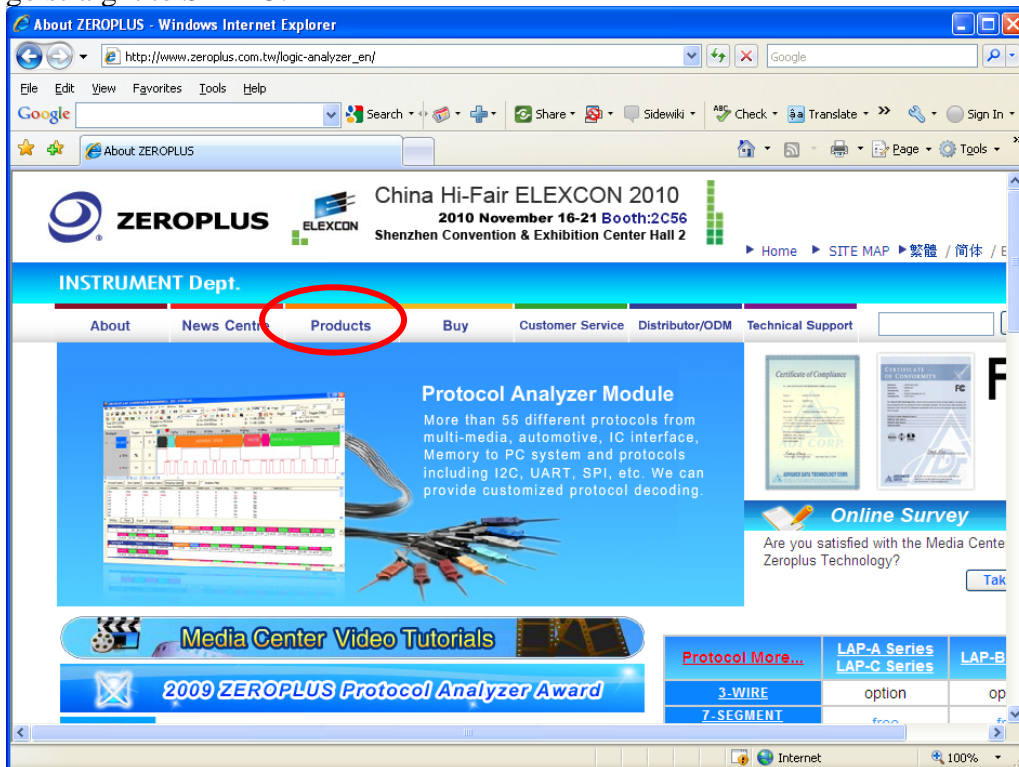
**STEP 1.** Visit the website of ZeroPlus: <http://www.zeroplus.com.tw>.

**STEP 2.** Click **English** in the Instrument Division part on the Homepage.

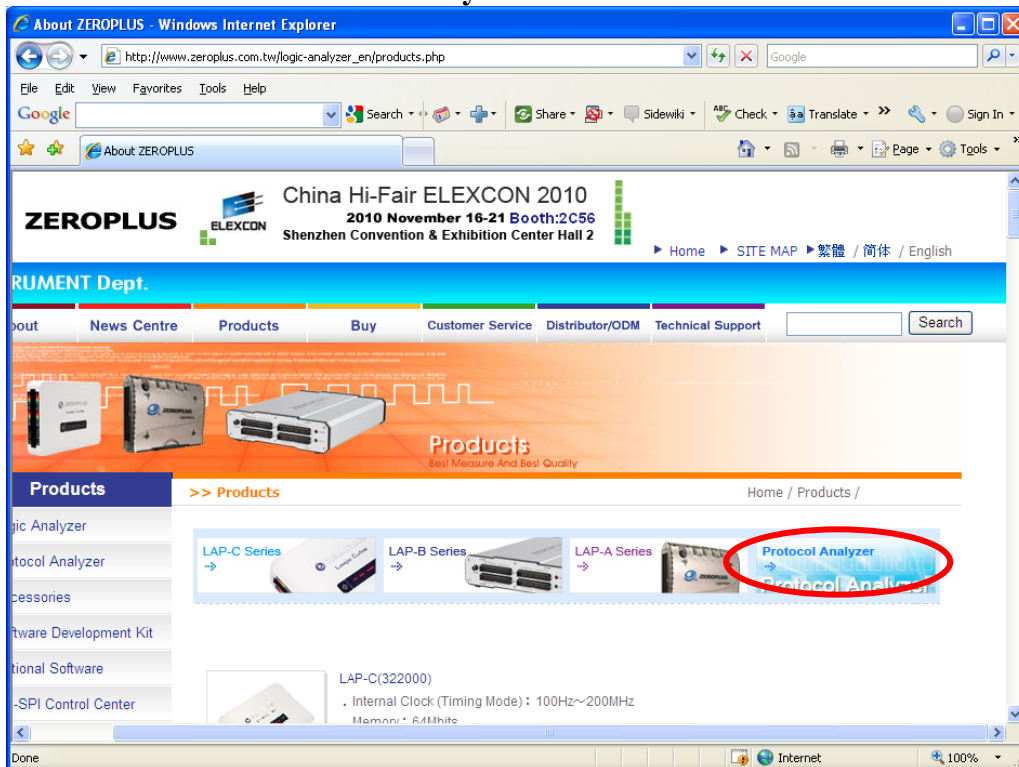




**STEP 3.** Click **Products** menu or select **Protocol Analyzer** item from its pull-down menu to go straight to STEP 5.

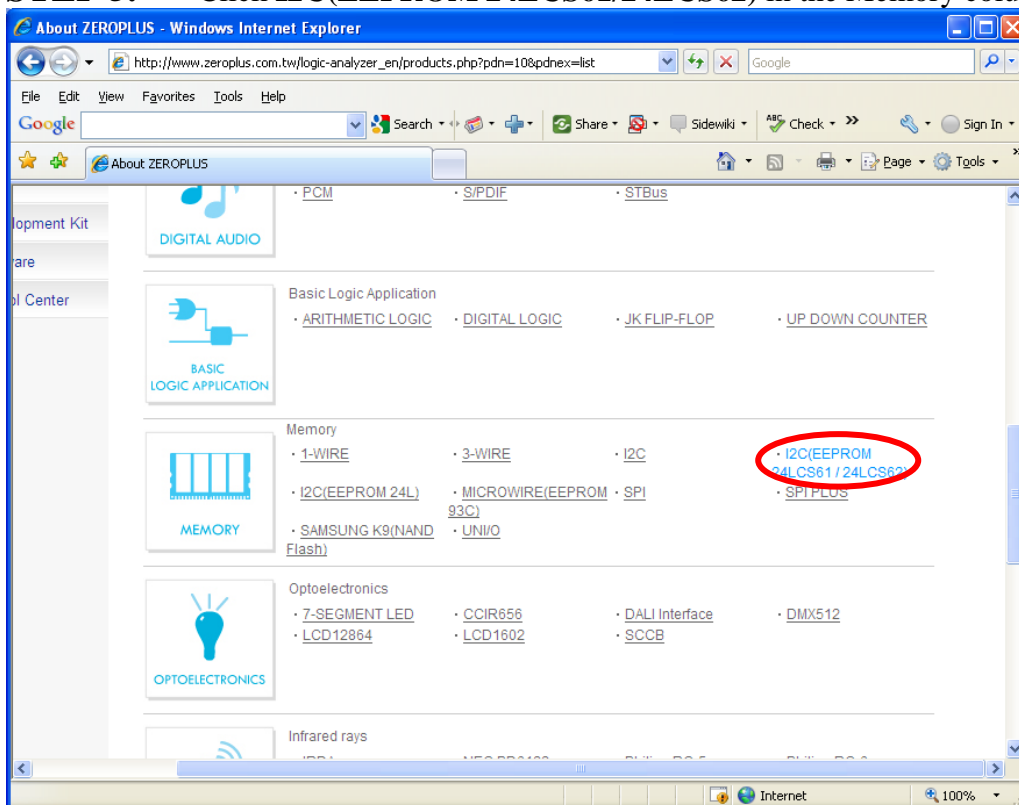


**STEP 4.** Click **Protocol Analyzer** icon.

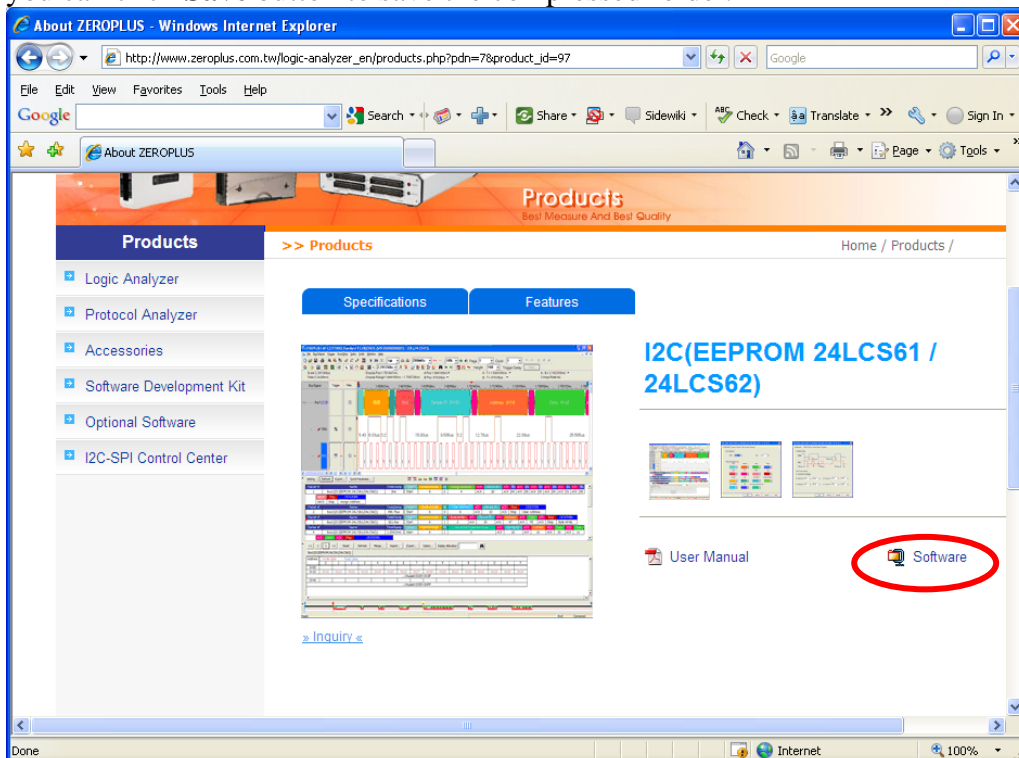




**STEP 5.** Click **I2C(EEPROM 24LCS61/24LCS62)** in the Memory column



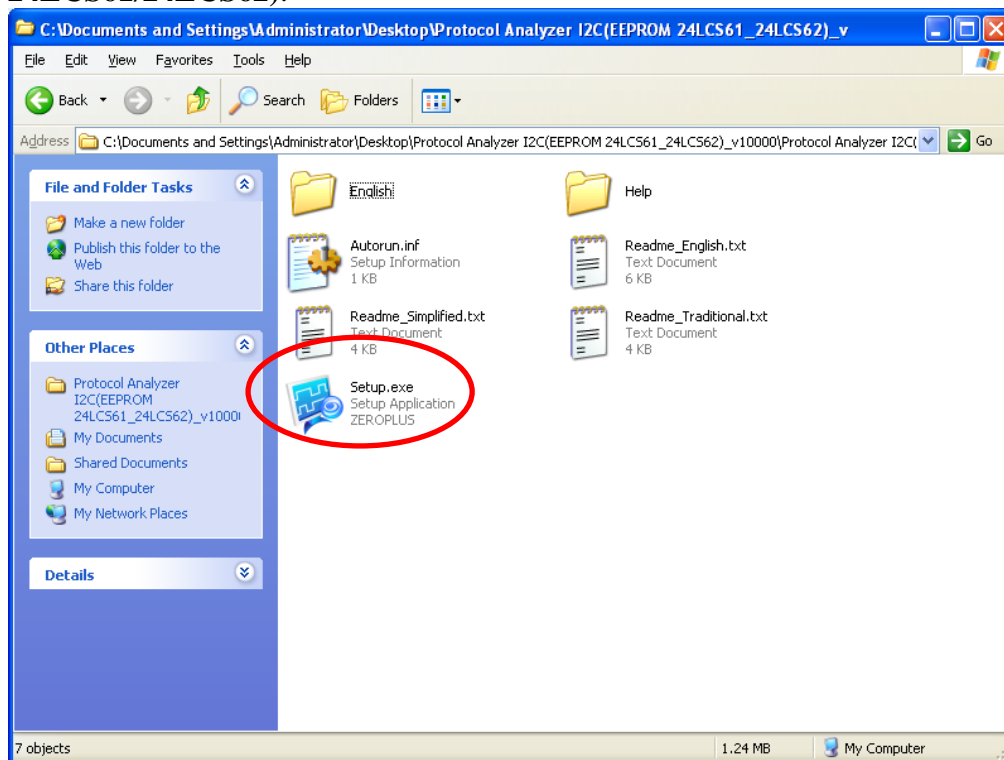
**STEP 6.** Click **Software** in the Products page. When the File Download dialog box appears, you can click **Save** button to save the compressed folder.



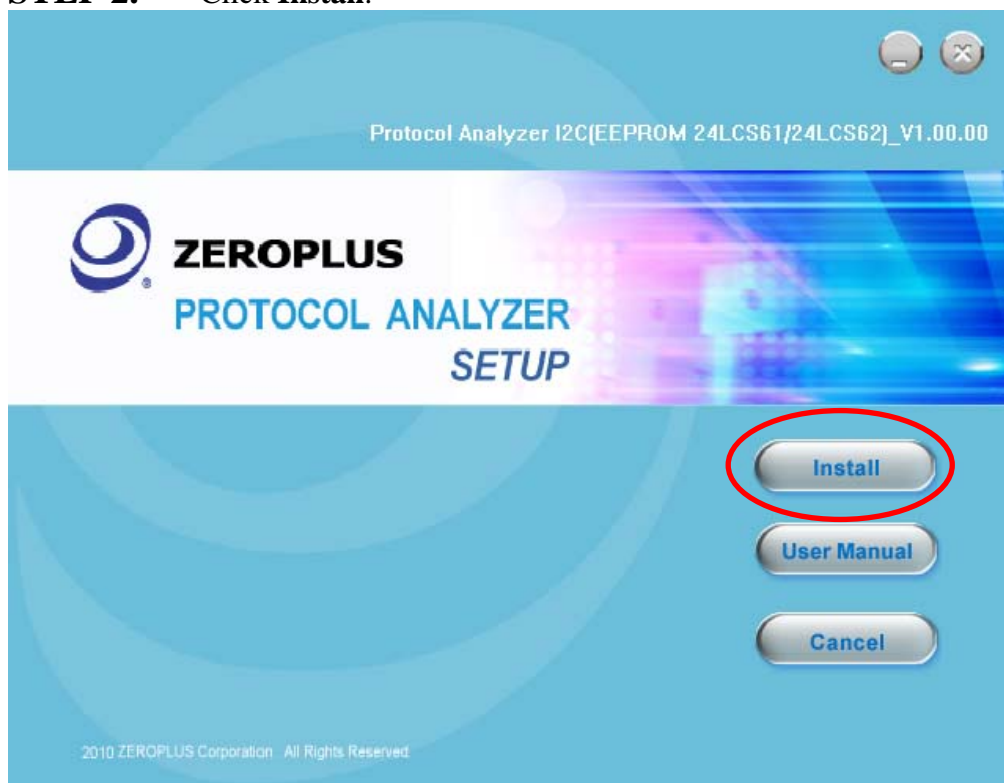


## 2 Software Installation

**STEP 1.** Open the downloaded folder to install **Protocol Analyzer I2C(EEPROM 24LCS61/24LCS62)**.



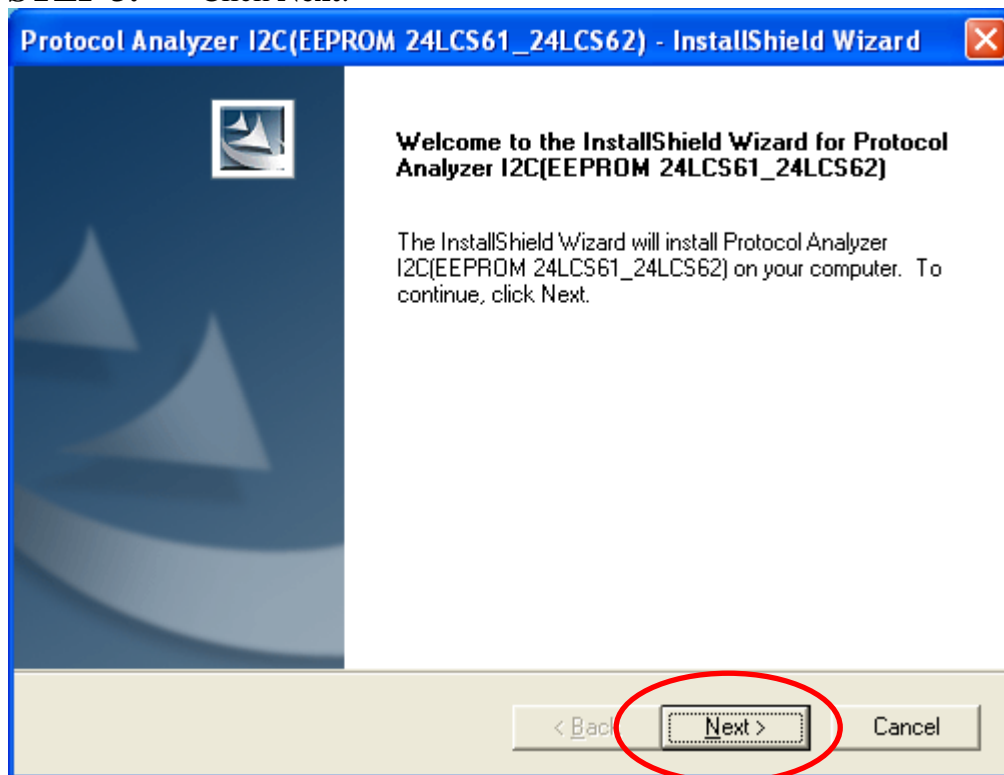
**STEP 2.** Click **Install**.



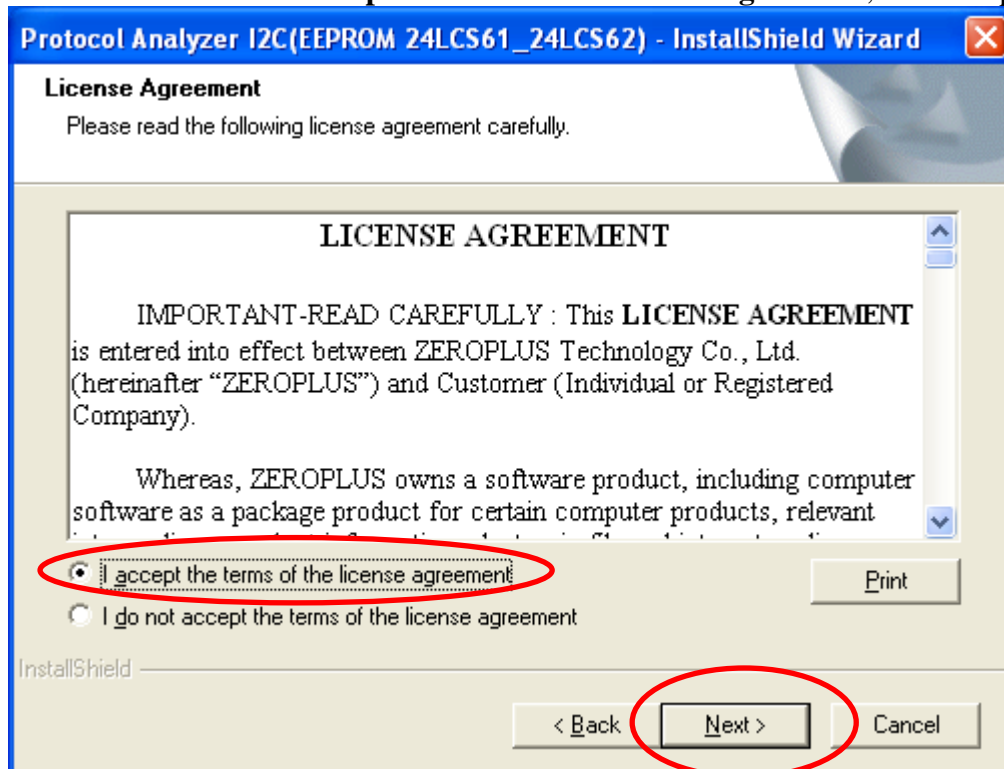




**STEP 3.** Click Next.



**STEP 4.** Select **I accept the terms of 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 I2C(EEPROM 24LCS61\_24LCS62) - InstallShield Wizard". It has a "Customer Information" section with the instruction "Please enter your information." Below this, there are two text input fields: "User Name:" with "Microsoft" entered, and "Company Name:" with "User" entered. There are two radio button options: "Anyone who uses this computer (all users)" (selected) and "Only for me (Microsoft)". At the bottom, there are three buttons: "< Back", "Next >" (circled in red), and "Cancel".

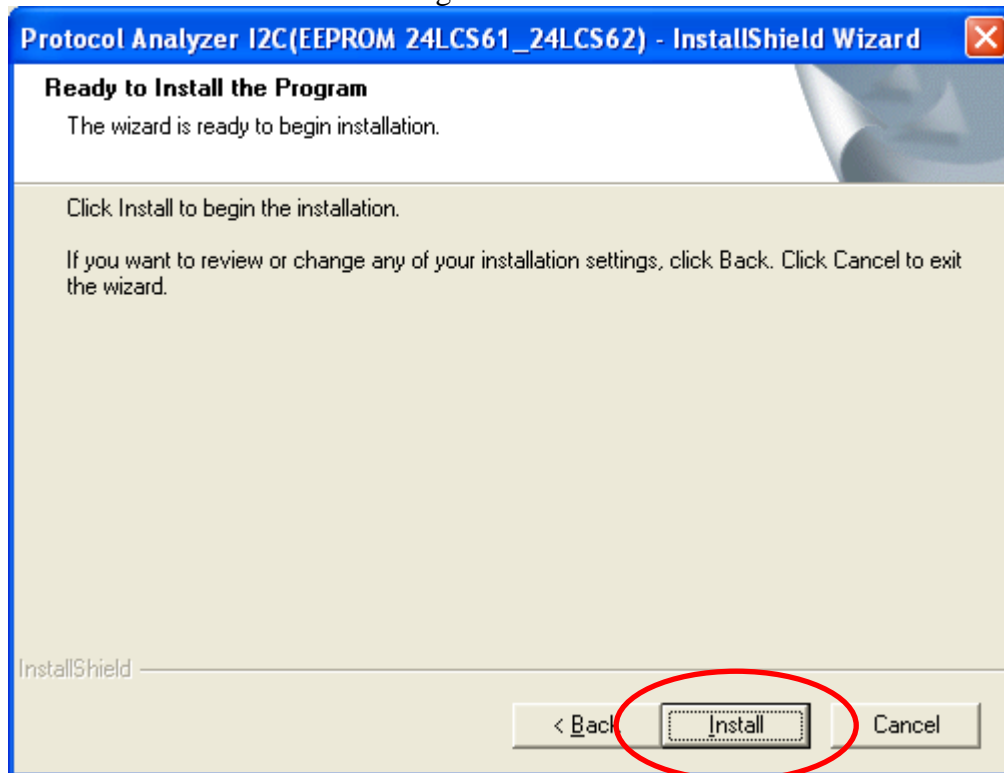
**STEP 6.** First, select **Complete** and then click **Next**.

The dialog box is titled "Protocol Analyzer I2C(EEPROM 24LCS61\_24LCS62) - InstallShield Wizard". It has a "Setup Type" section with the instruction "Select the setup type to install." Below this, there are two radio button options: "Complete" (selected) and "Custom". The "Complete" option has a description: "All program features will be installed. (Requires the most disk space.)" and a small icon of a computer with a red 'X'. The "Custom" option has a description: "Select which program features you want installed. Recommended for advanced users." and a small icon of a computer with a red 'X'. At the bottom, there are three buttons: "< Back", "Next >" (circled in red), and "Cancel".

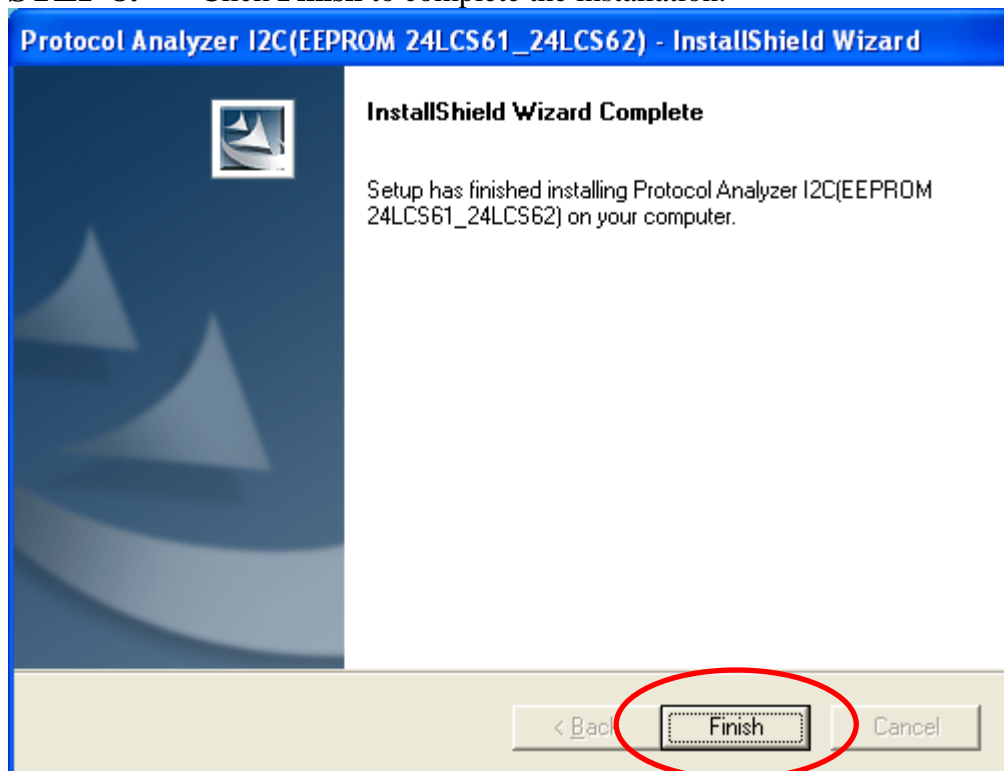




**STEP 7.** Click **Install** to begin the installation.



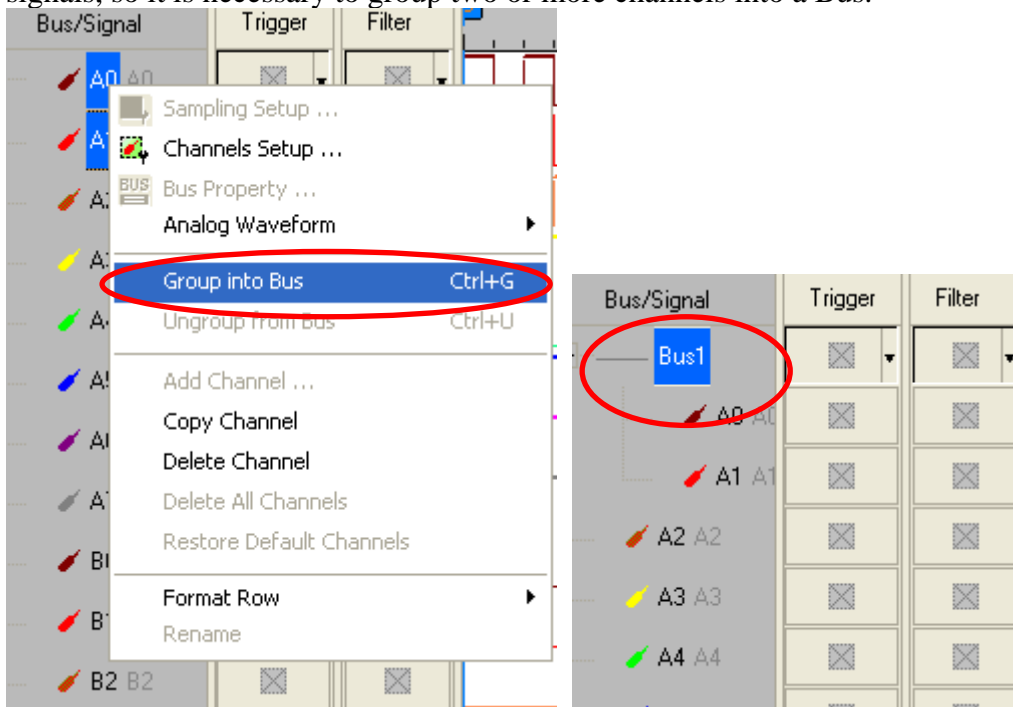
**STEP 8.** Click **Finish** to complete the installation.



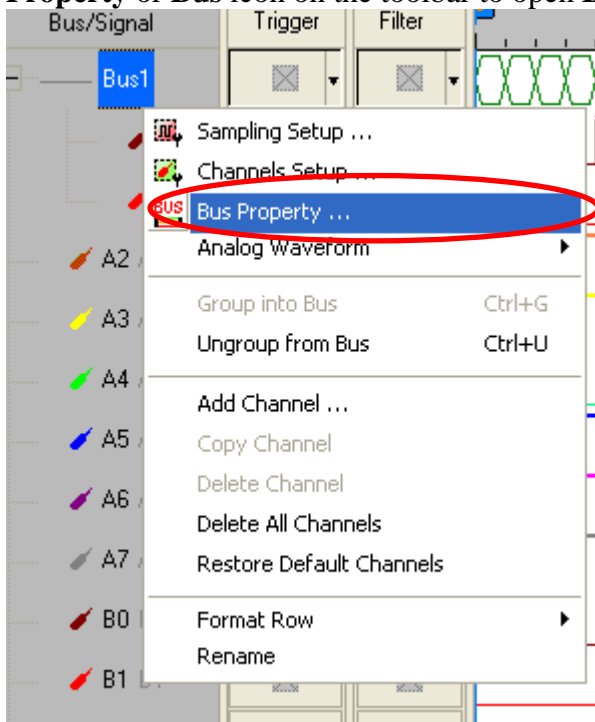


### 3 Software Register

**STEP 1.** Open the Logic Analyzer and group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse. I2C(EEPROM 24LCS61/24LCS62) needs two channels to decode signals, so it is necessary to group two or more channels into a Bus.

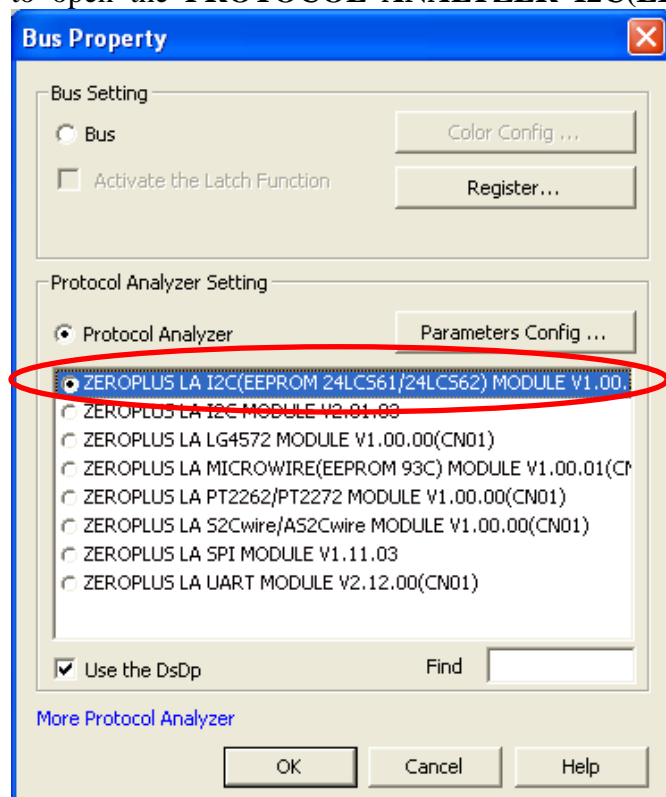


**STEP 2.** Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

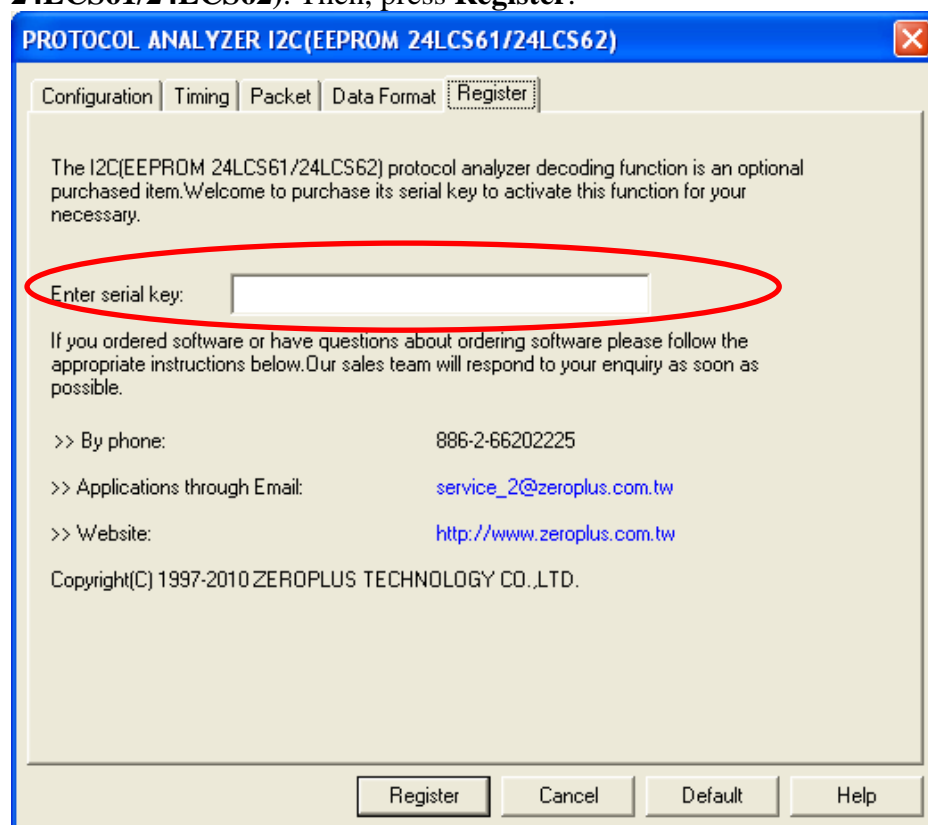




**STEP 3.** For Protocol Analyzer I2C(EEPROM 24LCS61/24LCS62) Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA I2C(EEPROM 24LCS61/24LCS62) MODULE V1.00.00 (CN01)**. Next click **Parameters Configuration** to open the **PROTOCOL ANALYZER I2C(EEPROM 24LCS61/24LCS62)** dialog box.

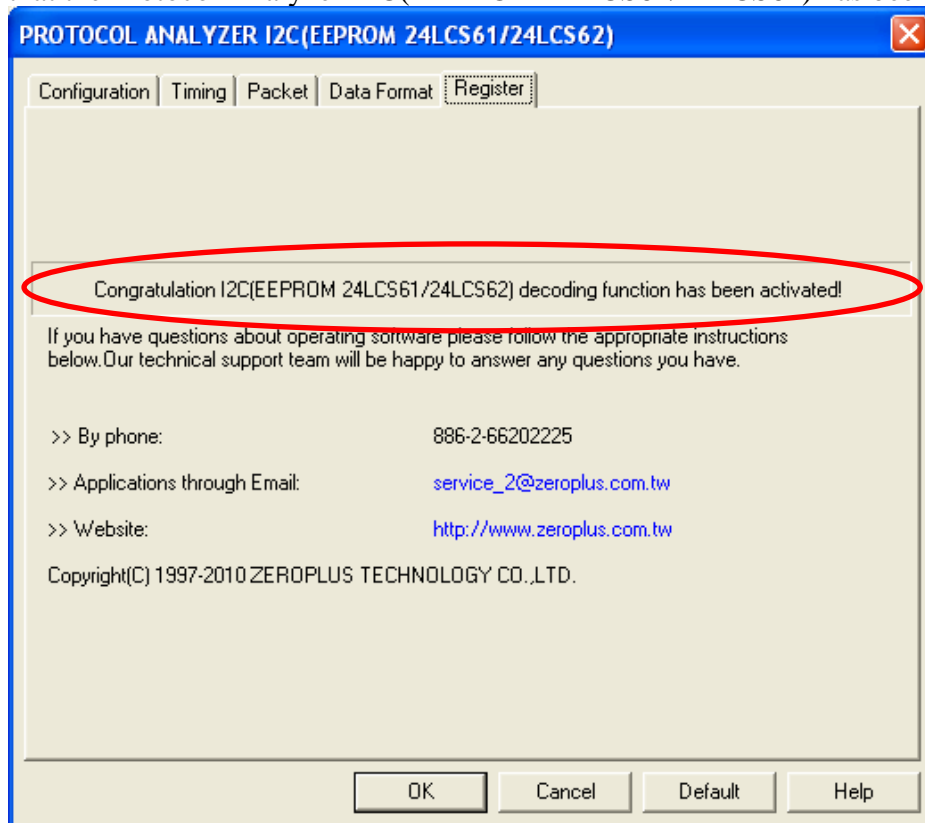


**STEP 4.** Press the Register tab to enter the serial key of the **I2C(EEPROM 24LCS61/24LCS62)**. Then, press **Register**.





**STEP 5.** After pressing the Register button, the following dialog box will appear; it denotes that the Protocol Analyzer I2C(EEPROM 24LCS61/24LCS62) has been registered successfully.

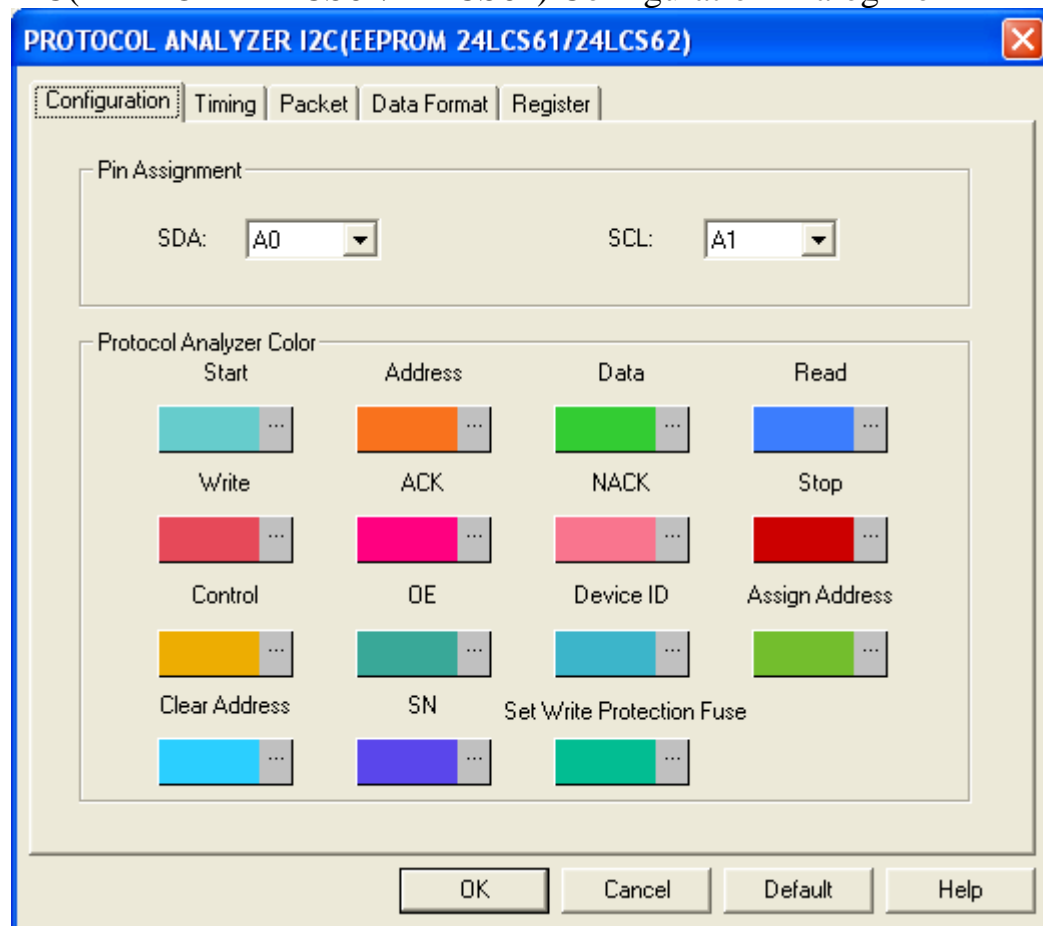




## 4 User Interface

In the configuration, please refer to below images to select options of **I2C(EEPROM 24LCS61/24LCS62)** module.

I2C(EEPROM 24LCS61/24LCS62) Configuration Dialog Box



### Pin Assignment

I2C(EEPROM 24LCS61/24LCS62) needs two channels to decode signals.

SDA: It is the Data channel.

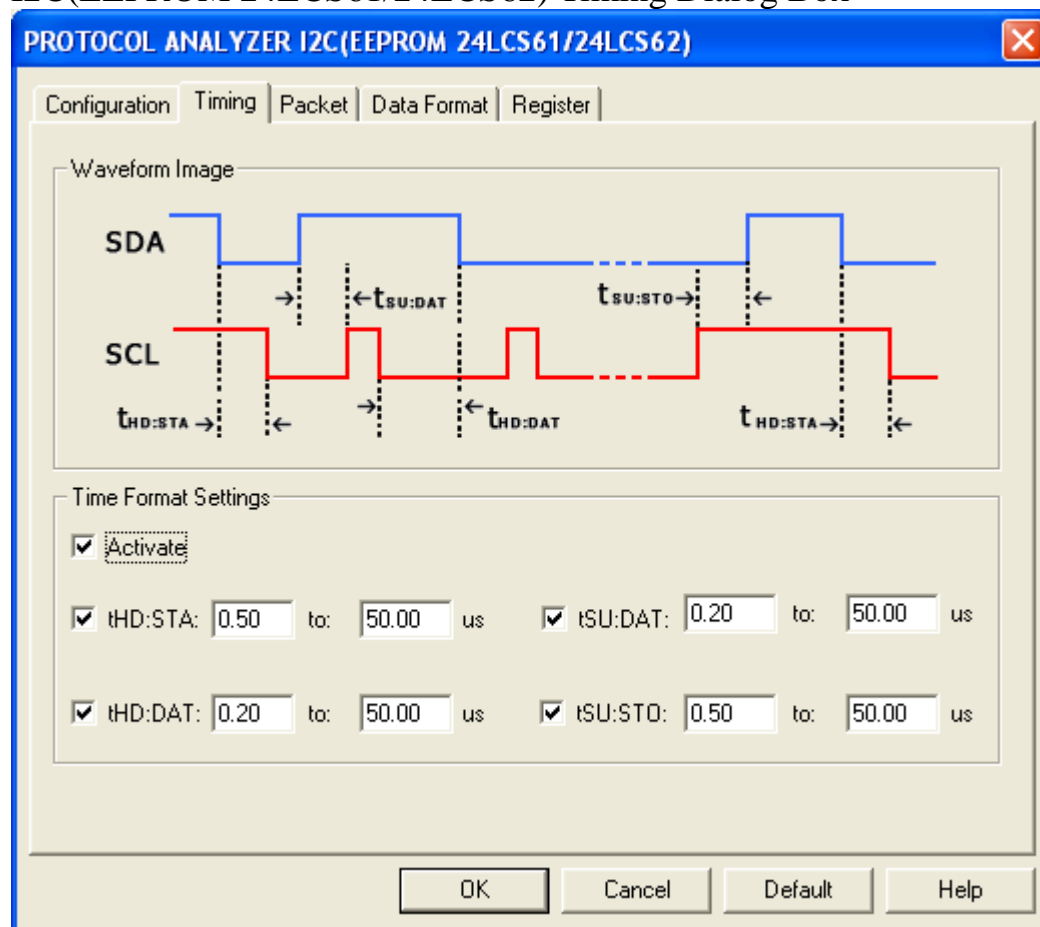
SCL: It is the Clock channel.

### Protocol Analyzer Color

Users can vary the colors of the decoded packet.



## I2C(EEPROM 24LCS61/24LCS62) Timing Dialog Box



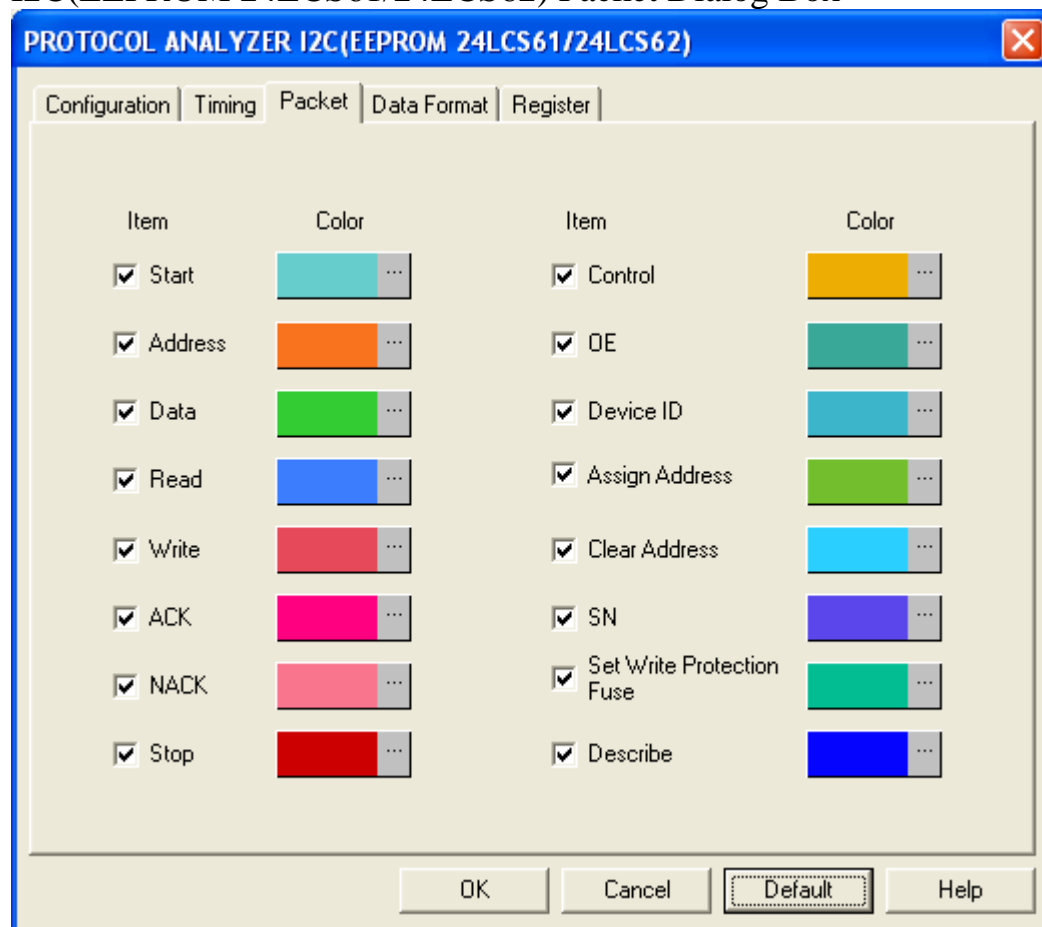
**Waveform Image:** Describe the position of the set time.

**Time Format Settings:** When the Time Settings is activated, the set time will become the condition of judging decoding. For example, when you want to decode the START, you should judge whether the conditions of START are satisfied firstly, and then judge whether the set time of tHD: STA is coincident with the factual waveform. If the two conditions are satisfied, the START can be decoded. Other segments' decoding of the packet is the same as the START decoding.





## I2C(EEPROM 24LCS61/24LCS62) Packet Dialog Box



In the Packet dialog box, users can set the item to be displayed and the color of items.



## I2C(EEPROM 24LCS61/24LCS62) Data Format Dialog Box

PROTOCOL ANALYZER I2C(EEPROM 24LCS61/24LCS62)

Configuration | Timing | Packet | Data Format | Register

☒ Activate

Address: ☐ Binary ☐ Decimal ☒ Hexadecimal ☐ ASCII

Data: ☐ Binary ☐ Decimal ☒ Hexadecimal ☐ ASCII

Device ID: ☐ Binary ☐ Decimal ☒ Hexadecimal ☐ ASCII

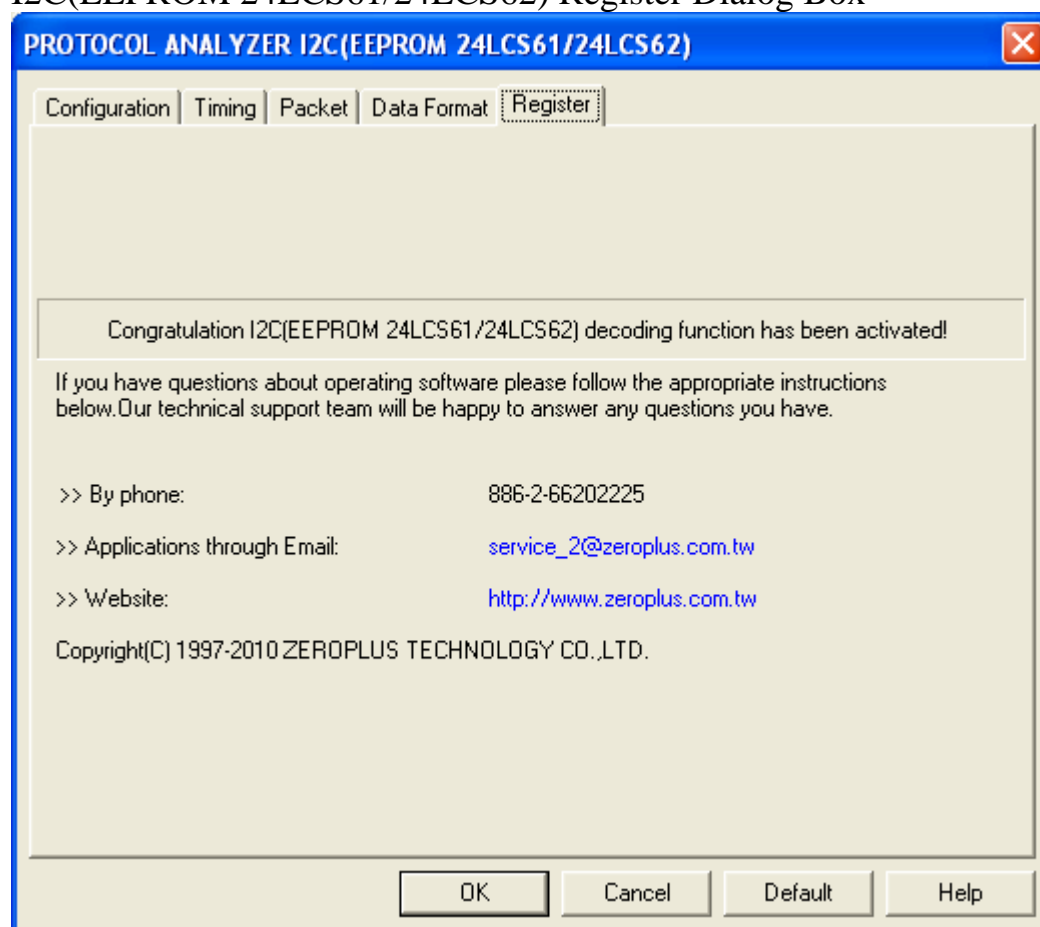
SN: ☐ Binary ☐ Decimal ☒ Hexadecimal ☐ ASCII

OK Cancel Default Help

Users can set the Data Format of the Address, Data, Device ID and SN as their requirements. When selecting the option, Activate, the data format is decided by the settings in the Protocol Analyzer; when not selecting the option, Activate, the data format is decided by the settings in the main program.



## I2C(EEPROM 24LCS61/24LCS62) Register Dialog Box

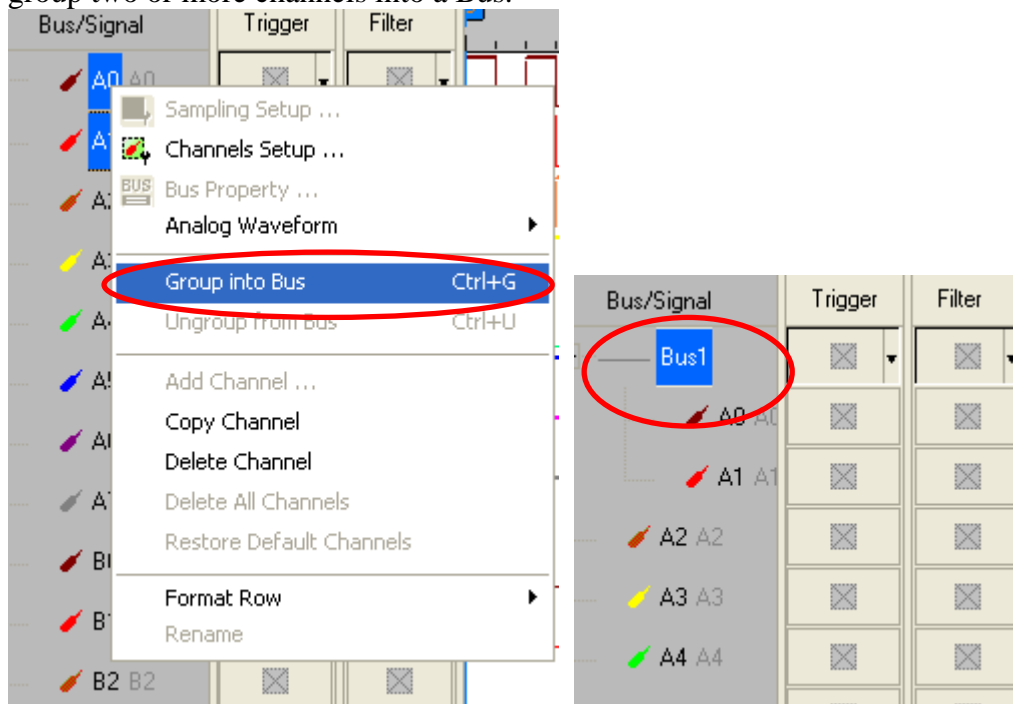


There is ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

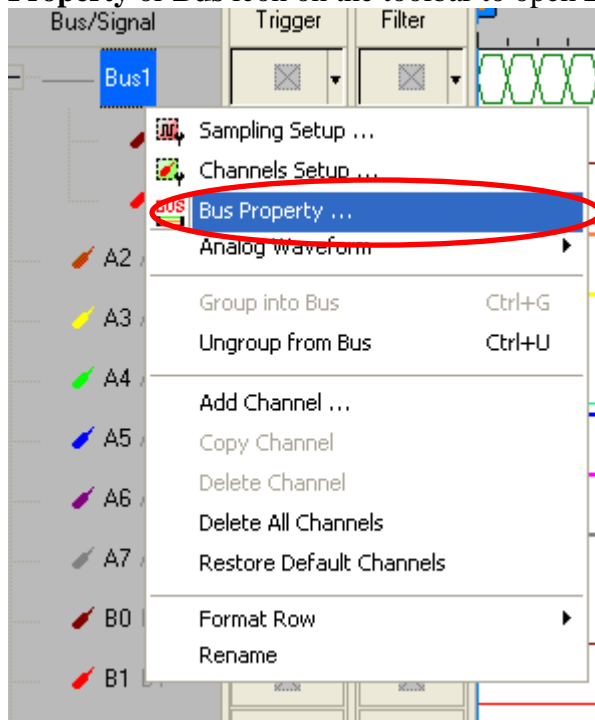


## 5 Operating Instructions

**STEP 1.** Group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse. I2C(EEPROM 24LCS61/24LCS62) needs two channels to decode signals, so it is necessary to group two or more channels into a Bus.

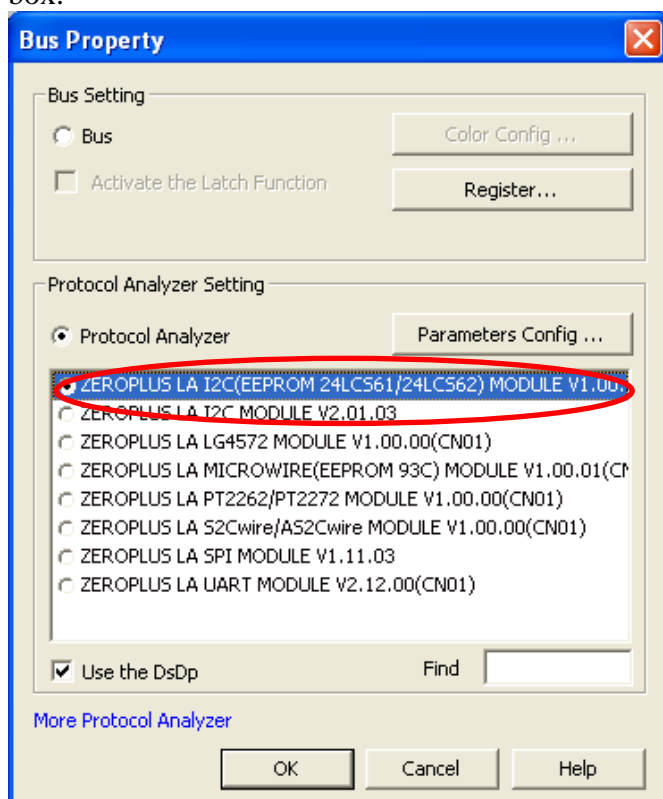


**STEP 2.** Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

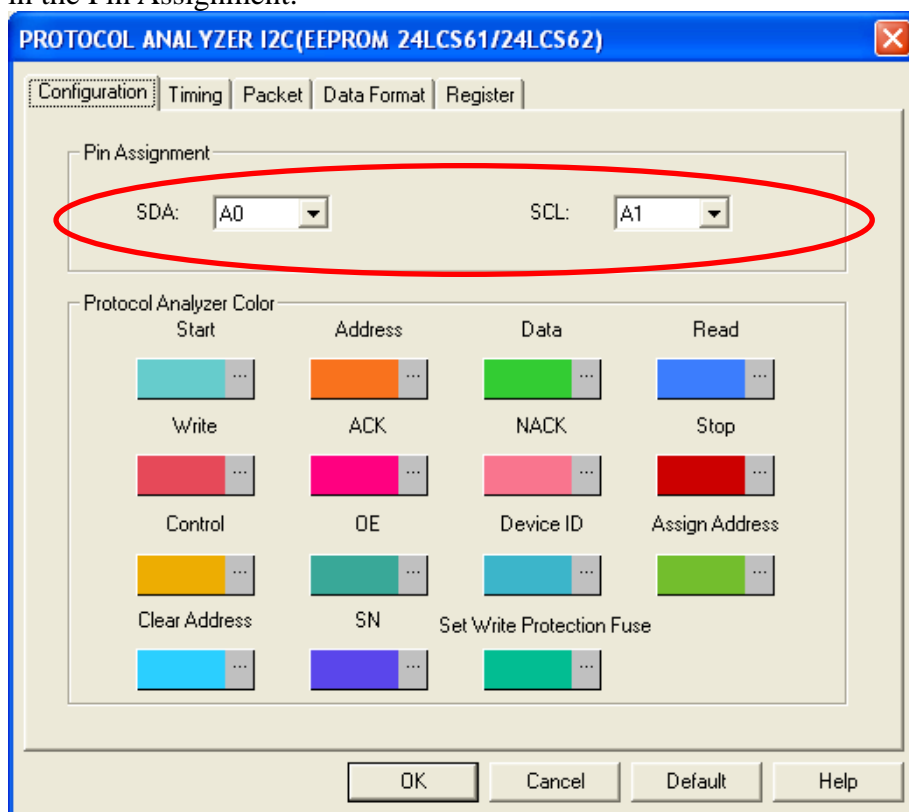




**STEP 3.** For Protocol Analyzer I2C(EEPROM 24LCS61/24LCS62) Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA I2C(EEPROM 24LCS61/24LCS62) MODULE V1.00.00(CN01)**. Next click Parameters Configuration to open the Configuration dialog box.

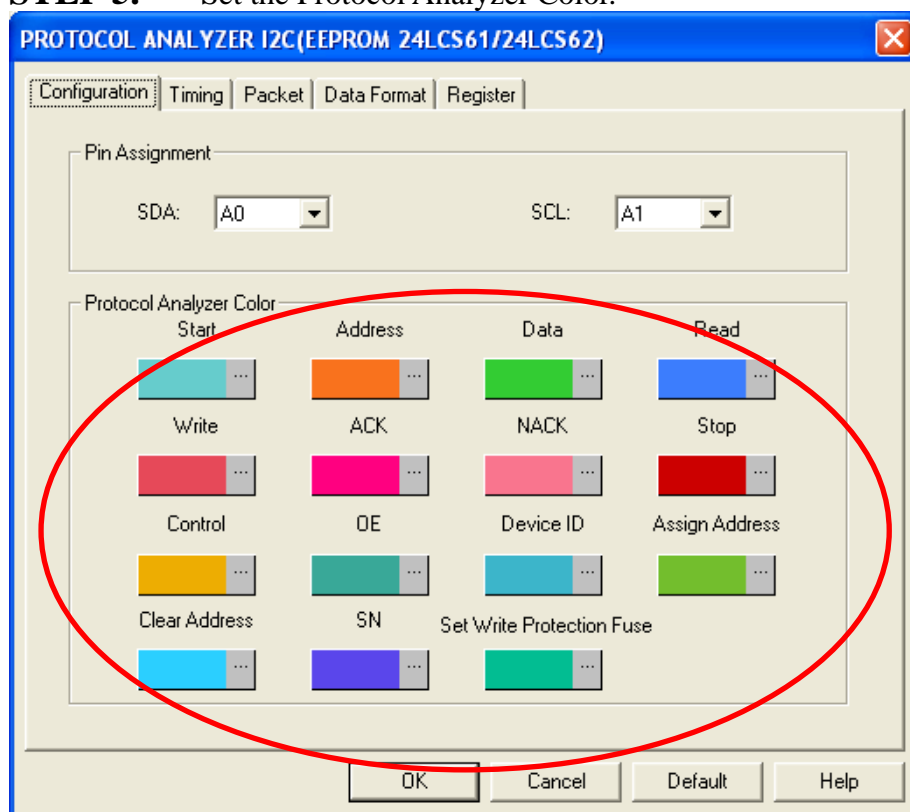


**STEP 4.** Open the **Configuration** dialog box, and set the channels for the SDA and the SCL in the Pin Assignment.



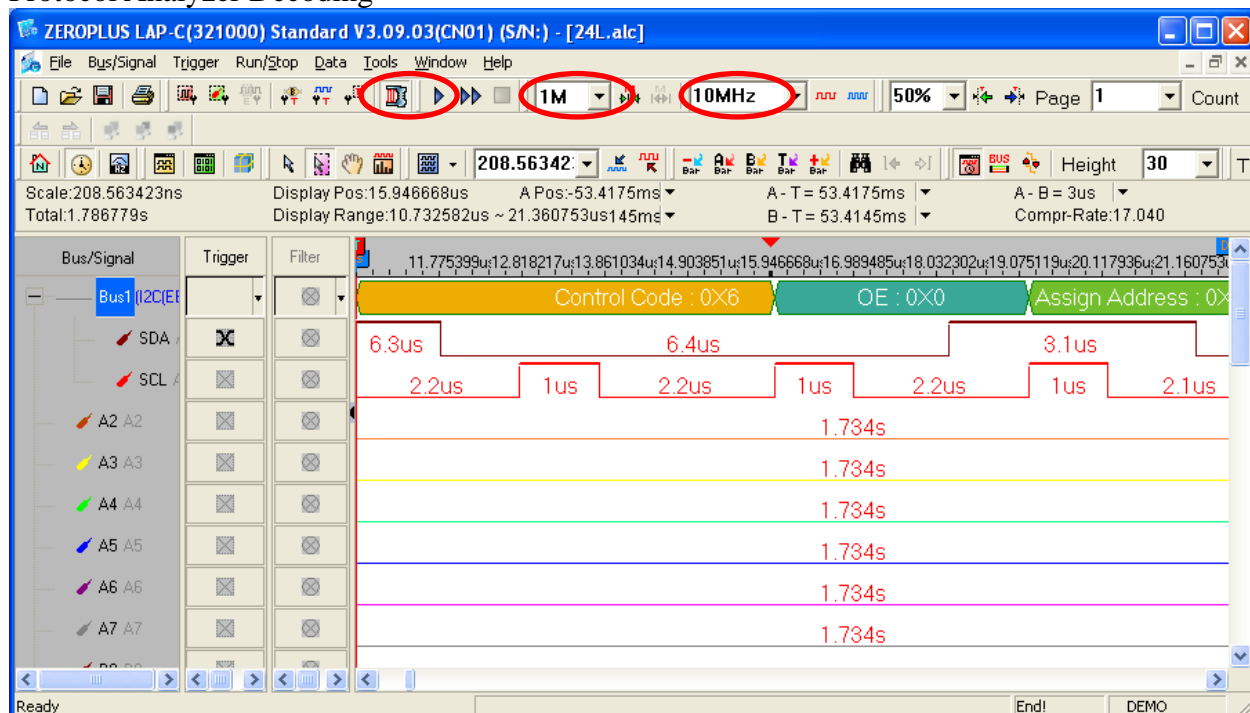


## STEP 5. Set the Protocol Analyzer Color.



**STEP 6.** Following pictures show the completion of the protocol analyzer decoding and packet list. The Compression is activated. And the memory depth is 1M; the sampling frequency is 10MHz (the sampling frequency should be more than twenty times higher than the signal to be tested).

## Protocol Analyzer Decoding







## Packet List

