



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

# SPECIFICATION

**MODEL: B09022-LAP-Philips RC-5-M**

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

**VERSION:** **V1.01**

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.....	16



## 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.

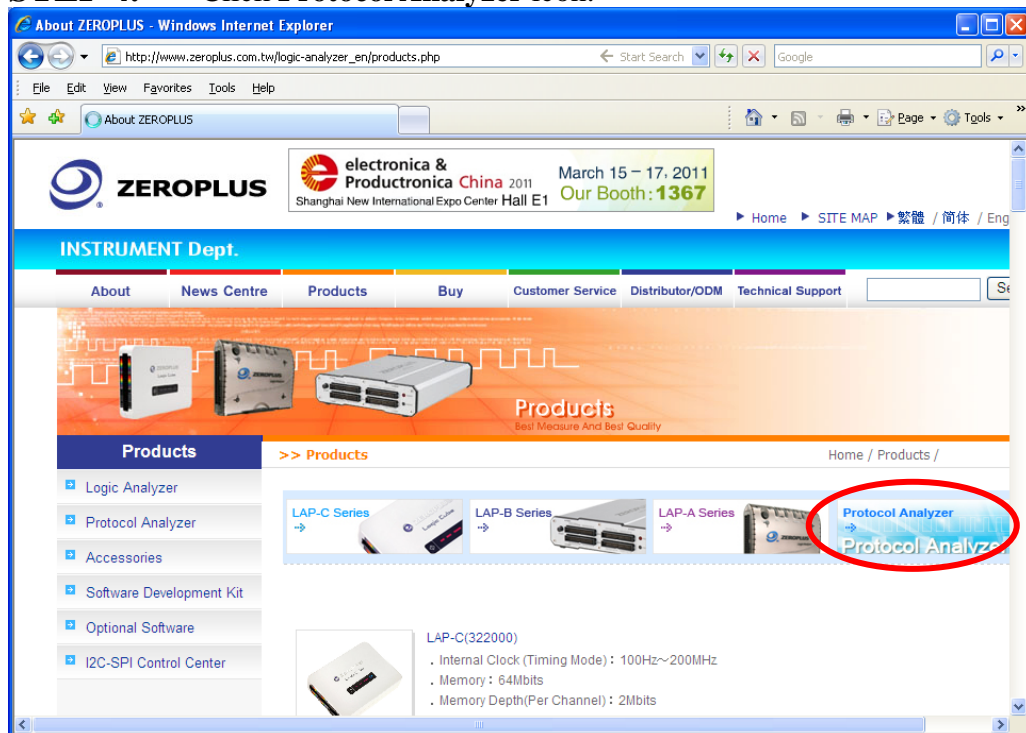




**STEP 3.** Click **Products** menu or select Protocol Analyzer item from its pull-down menu to go straight to STEP 5.

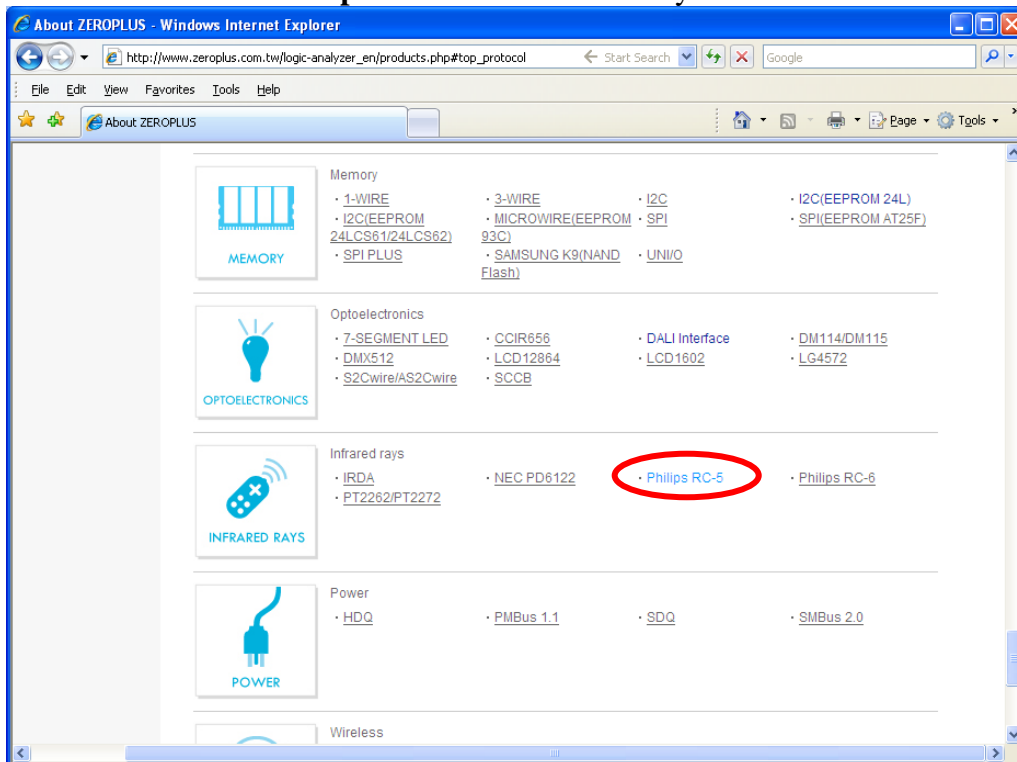


**STEP 4.** Click **Protocol Analyzer** icon.

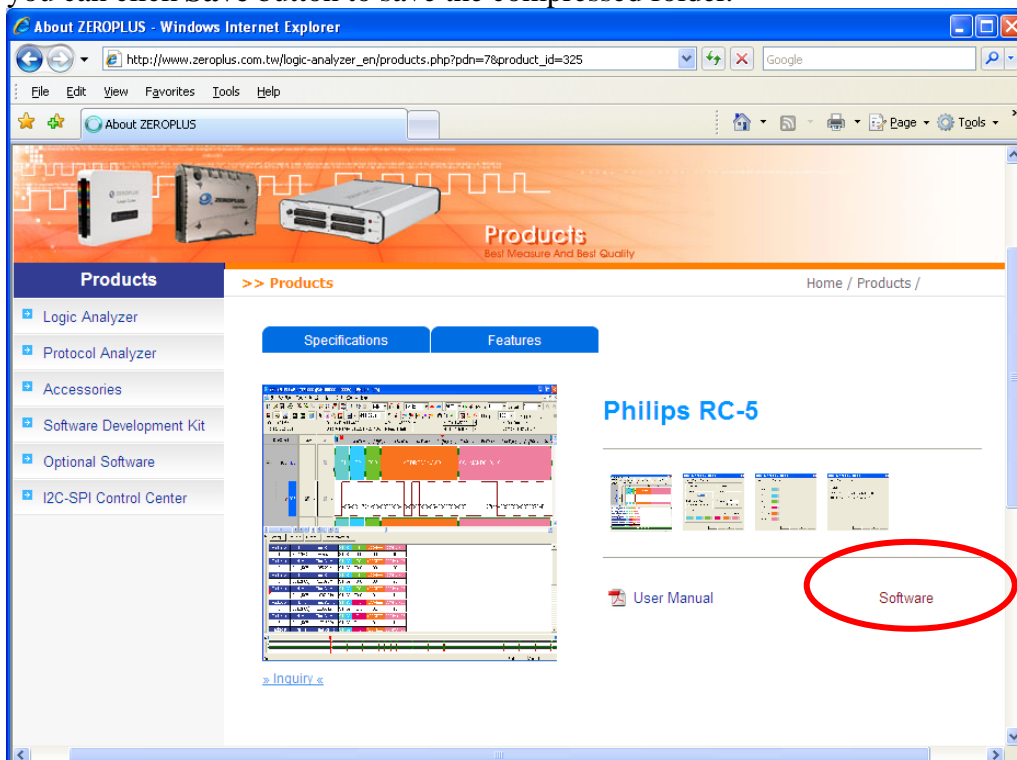




**STEP 5.** Click **Philips RC-5** in the Infrared rays.



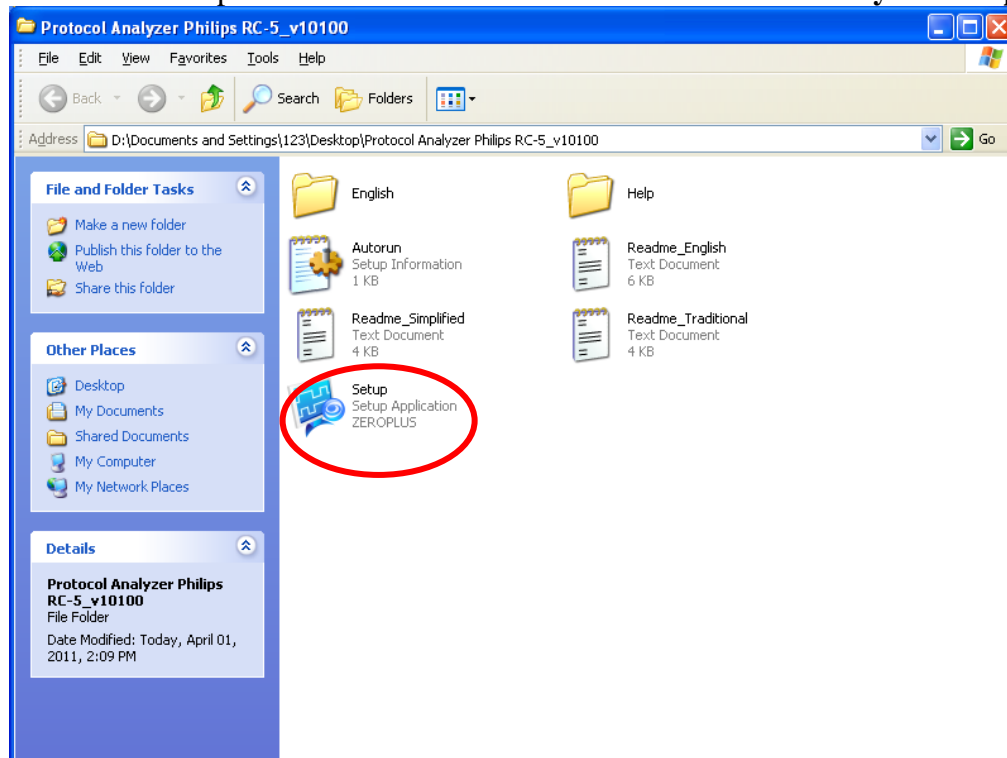
**STEP 6.** Click **Software** in the Products page. When the File Download dialog box appears, you can click **Save** button to save the compressed folder.



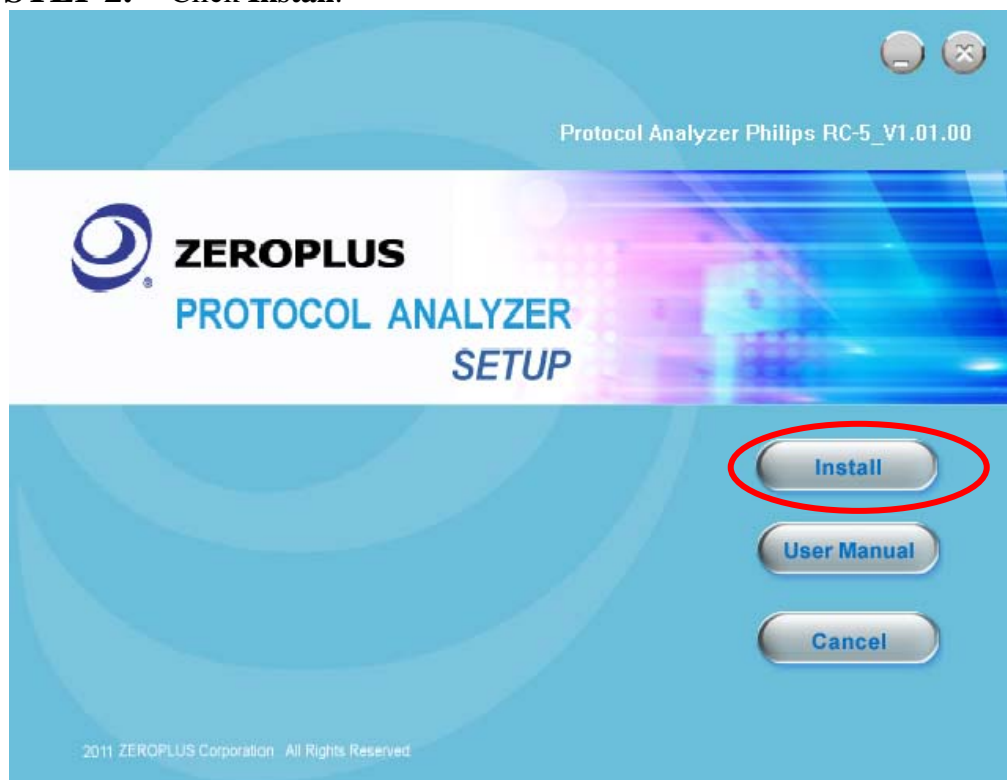


## 2 Software Installation

**STEP 1.** Open the downloaded folder to install **Protocol Analyzer Philips RC-5**.



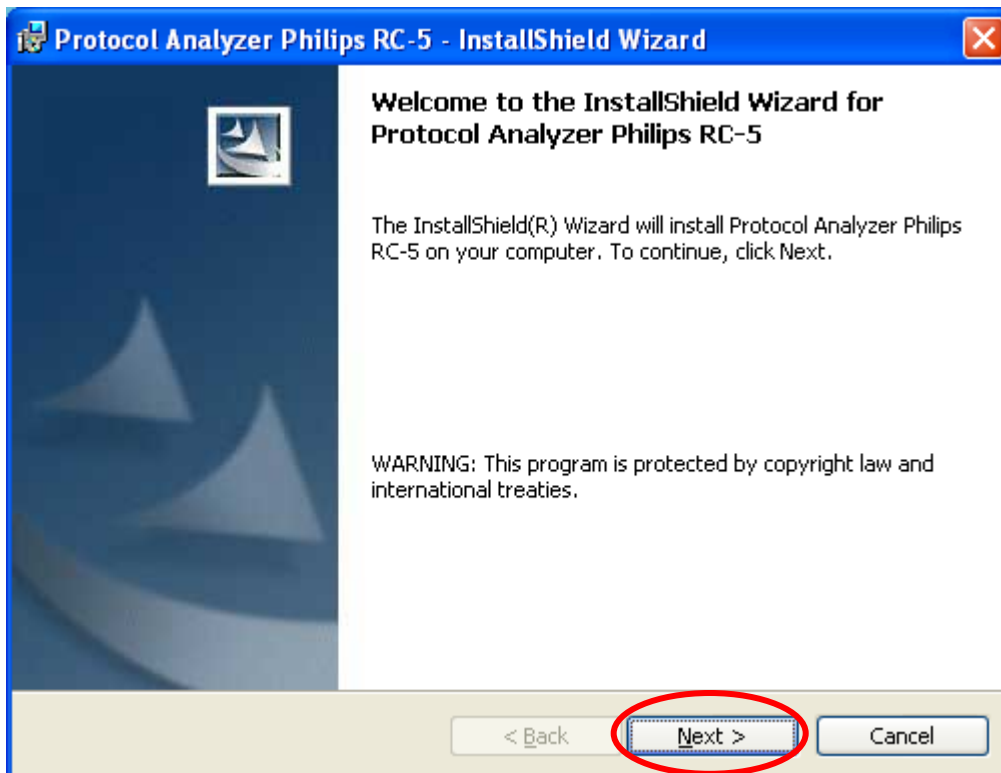
**STEP 2.** Click **Install**.



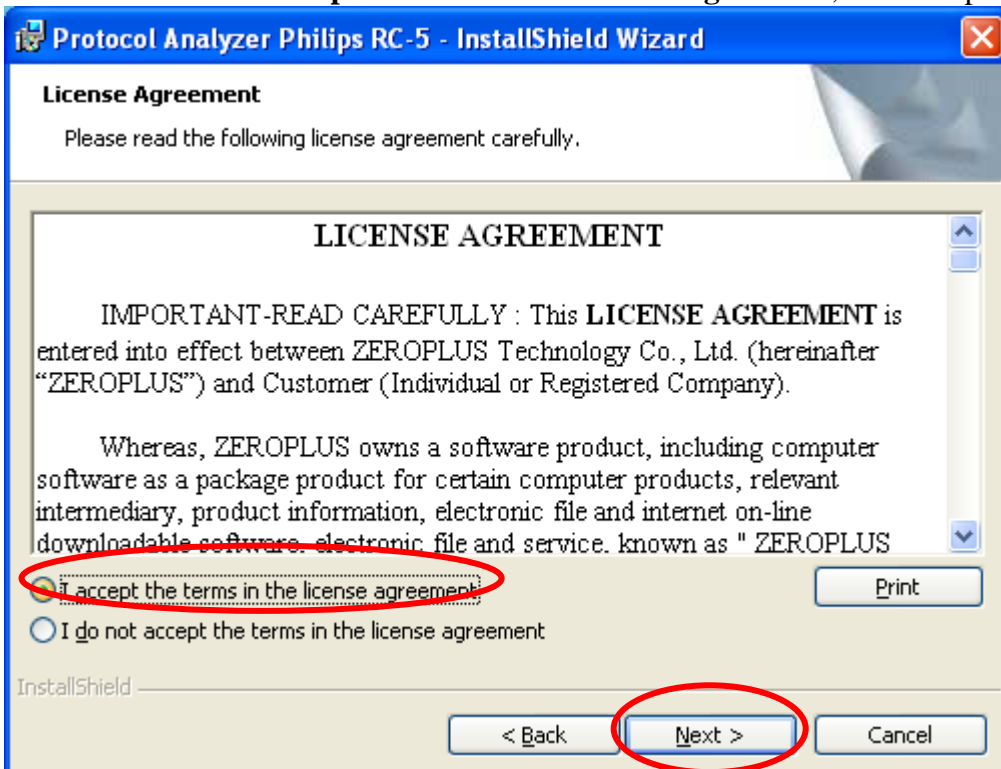




**STEP 3.** Click Next.



**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 Philips RC-5 - 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 "kelly" and "Organization:" with the text "kelly". Below these fields are two radio button options: "Anyone who uses this computer (all users)" (selected) and "Only for me (kelly)". At the bottom, there are three buttons: "< Back", "Next >" (circled in red), and "Cancel". The bottom left corner of the dialog box has the text "InstallShield".

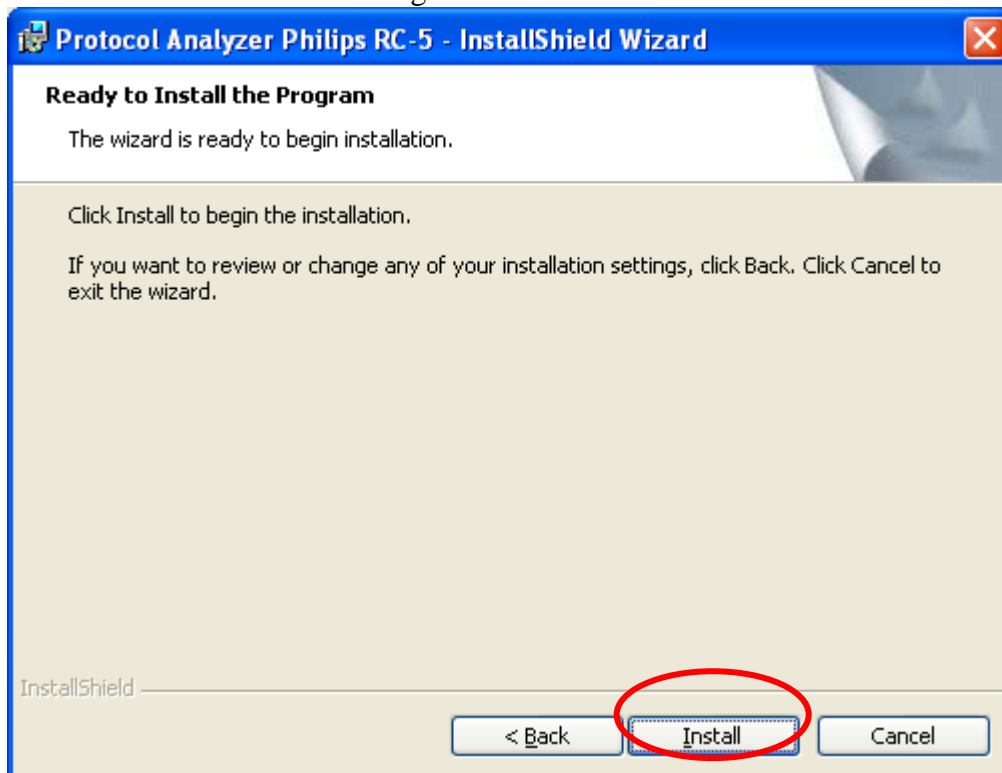
**STEP 6.** First, select **Complete** and then click **Next**.

The dialog box is titled "Protocol Analyzer Philips RC-5 - 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 'X' and a description: "All program features will be installed. (Requires the most disk space.)" for Complete, and "Choose which program features you want installed and where they will be installed. Recommended for advanced users." for Custom. At the bottom, there are three buttons: "< Back", "Next >" (circled in red), and "Cancel". The bottom left corner of the dialog box has the text "InstallShield".

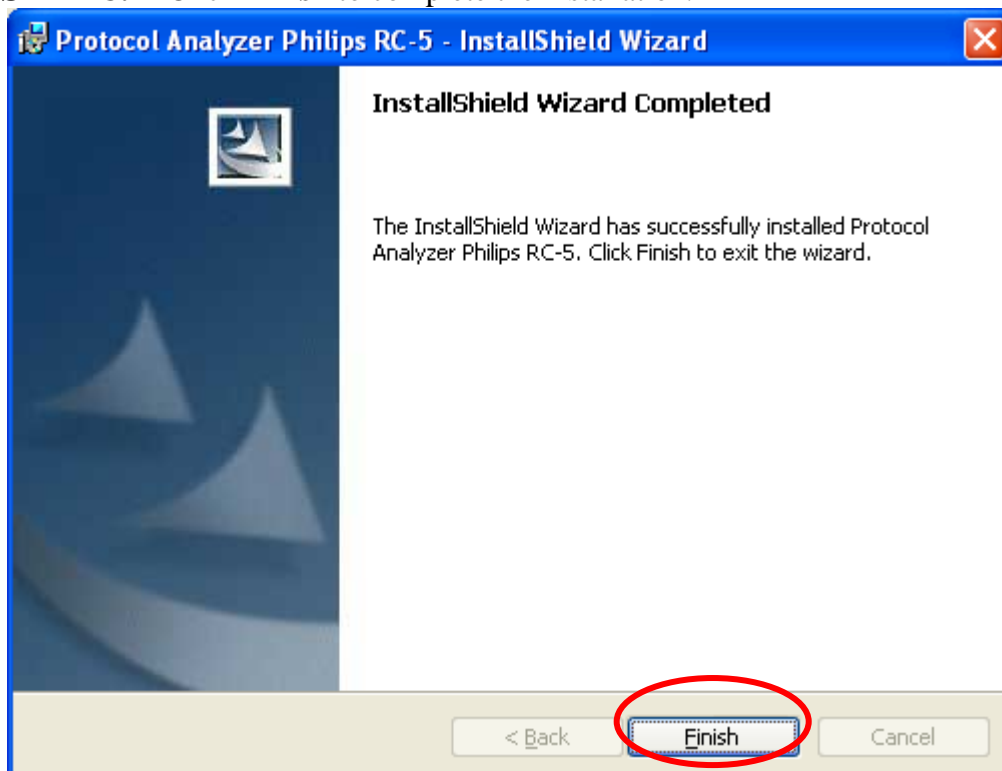




**STEP 7.** Click **Install** to begin the installation.



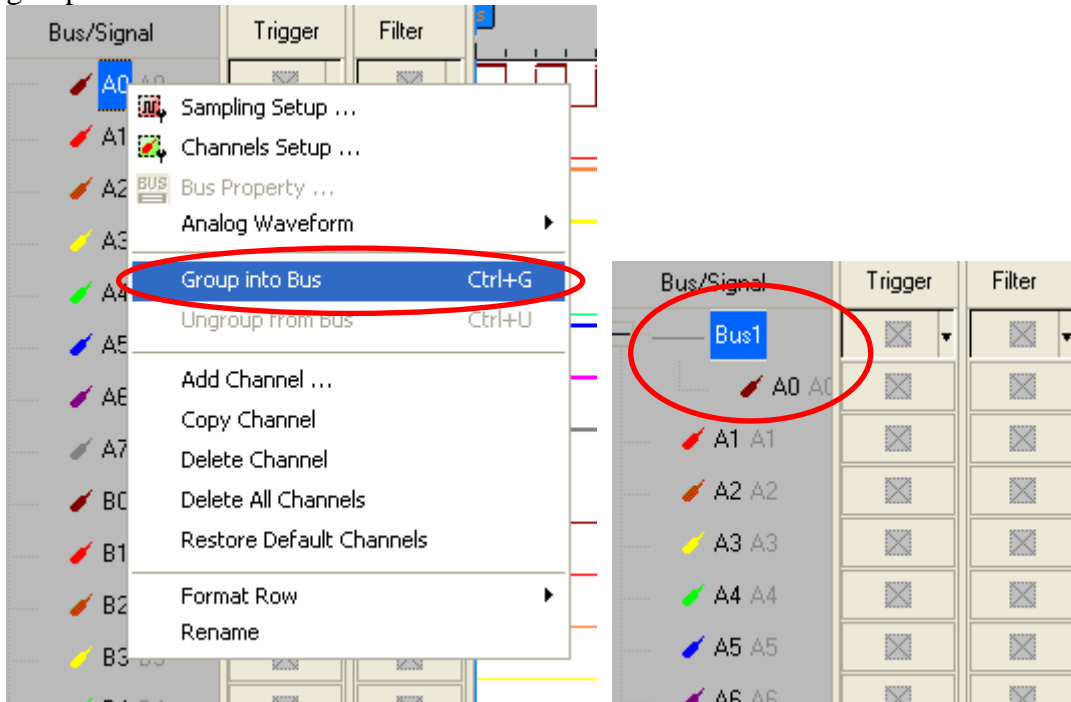
**STEP 8.** Click **Finish** to complete the installation.



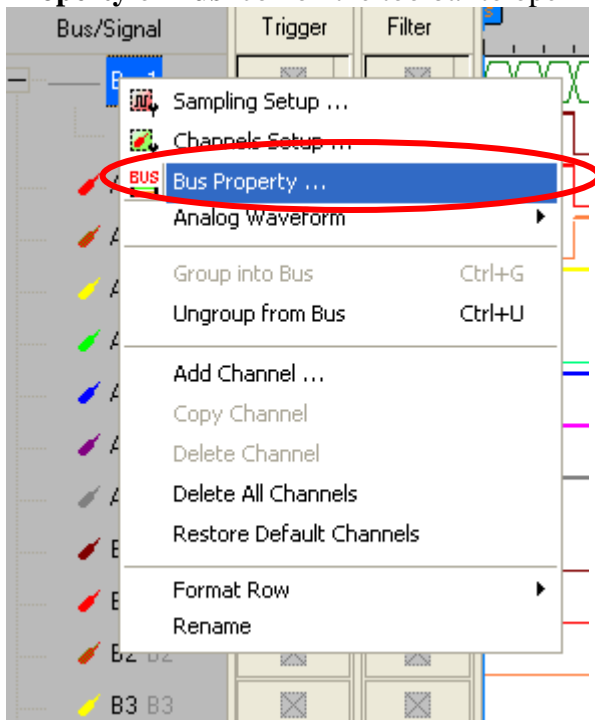


### 3 Software Register

**STEP 1.** Open the Logic Analyzer and group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse. Philips RC-5 only needs one channel to decode signals, so it is necessary to group one or more channels into a Bus.

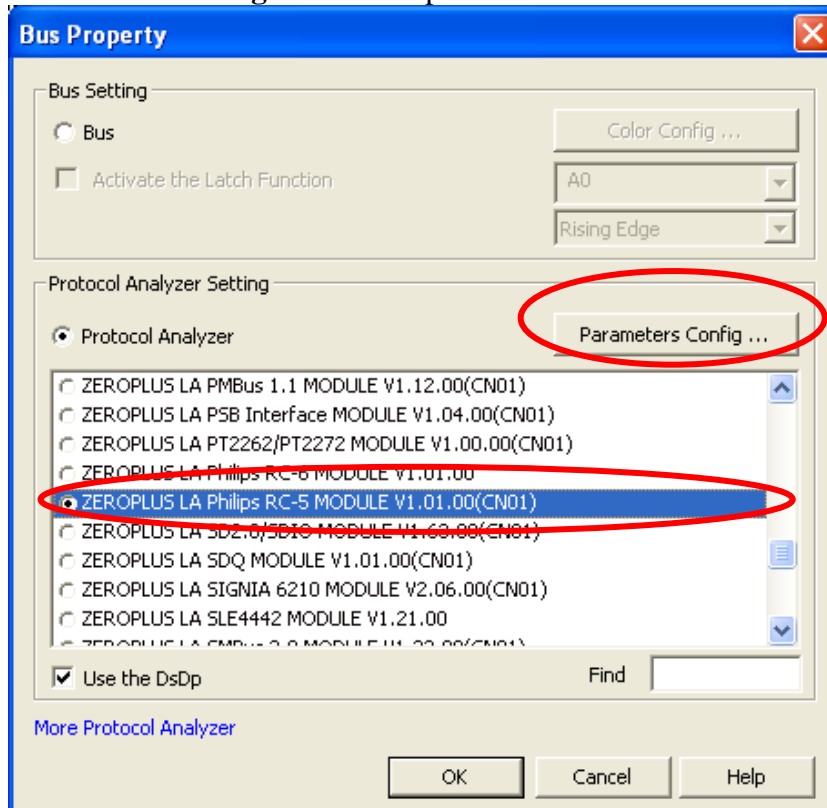


**STEP 2.** Select **Bus1**, then press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

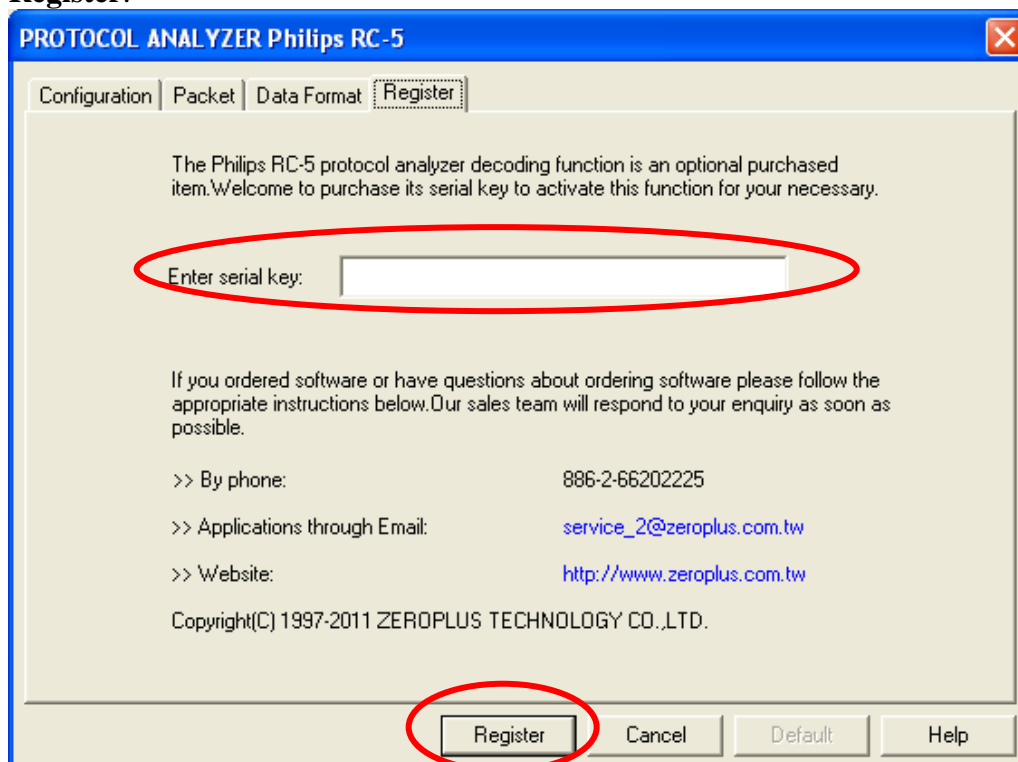




**STEP 3.** For Protocol Analyzer Philips RC-5 Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA Philips RC-5 MODULE V1.01.00(CN01)**. Next click **Parameters Configuration** to open the **PROTOCOL ANALYZER Philips RC-5** dialog box.

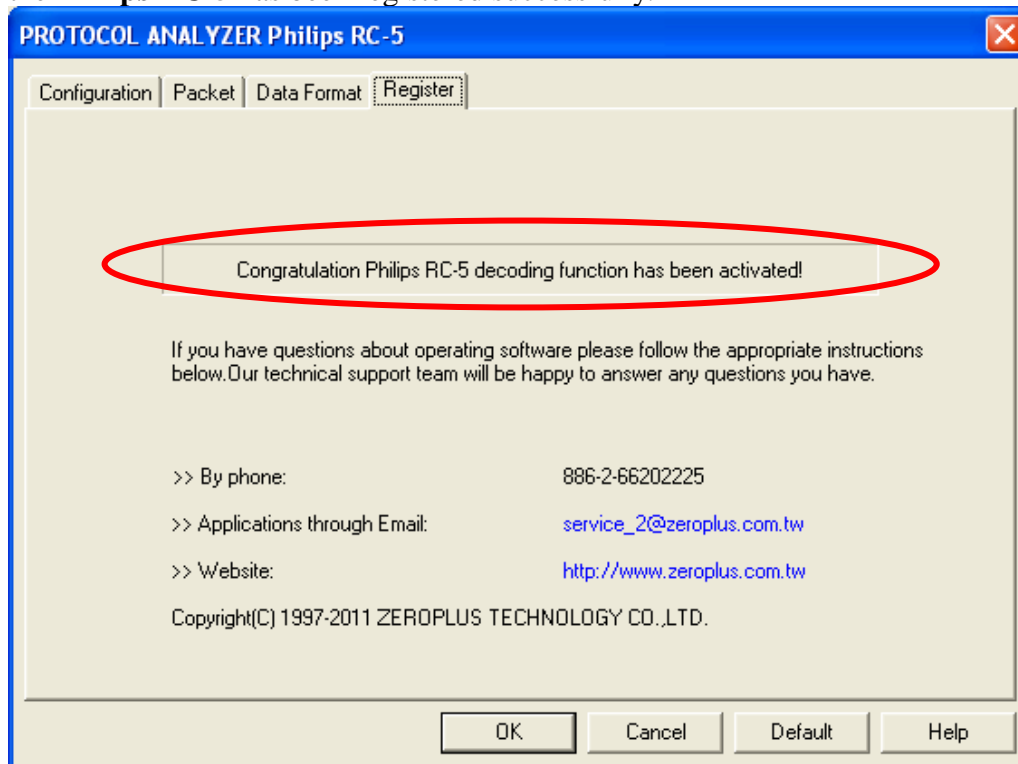


**STEP 4.** Press Register tab to type the serial key number of **Philips RC-5**. Then, press **Register**.





**STEP 5.** After pressing the Register button, the following dialog box will appear; it denotes that the **Philips RC-5** has been registered successfully.

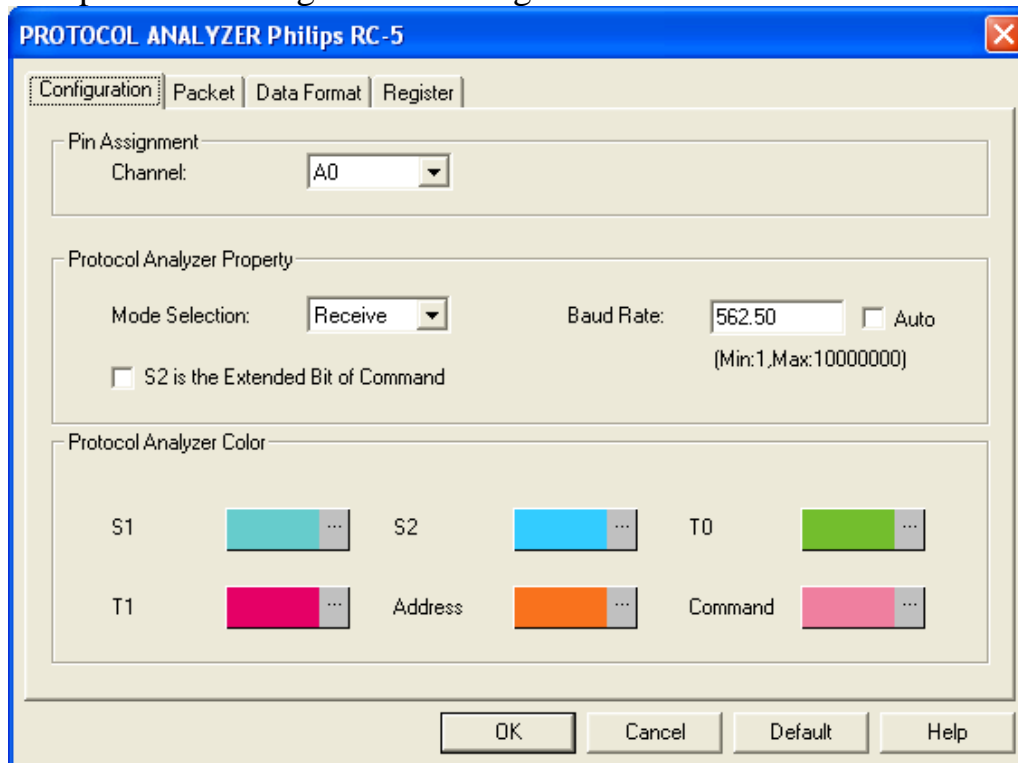




## 4 User Interface

In the configuration, please refer to the below images to select options of setting Philips RC-5 Module.

Philips RC-5 Configuration Dialog Box



**Pin Assignment:**

**Channel:** It only needs one channel to decode the signals.

**Protocol Analyzer Property:**

**Mode Selection:** Set the Mode to Receive or Transmit, and the default is Receive.

**S2 is the Extended Bit of Command:** When selecting this option, S2 is the Extended Bit of Command, S2 is added to the last bit of the Command, and the default is disabled by default.

**Baud Rate:**

**1. Auto:** When selecting the option, Auto, the Baud Rate will be calculated automatically by decoding, and the calculated correct value will also be displayed.

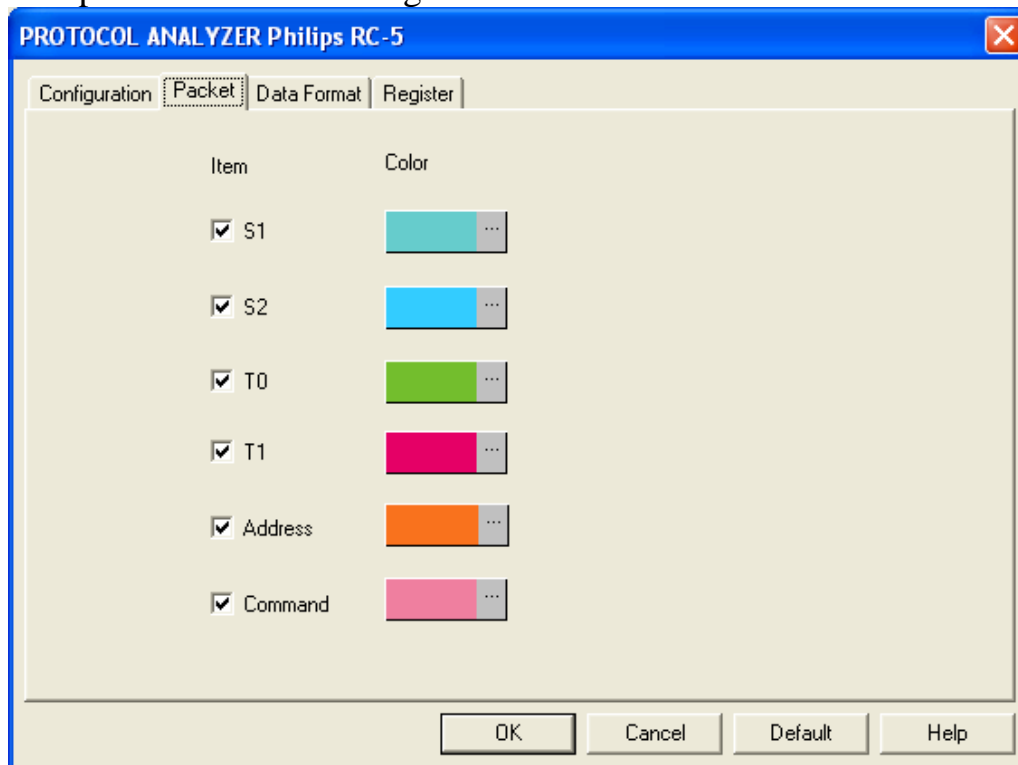
**2. Manual Input:** The default of the Baud Rate Setting is Manual Input, and the default value is 562.50, which is the usual transmission speed. Users can enter the value from 1bps to 10Mbps.

**Protocol Analyzer Color:**

Users can set the color of each item in this part.

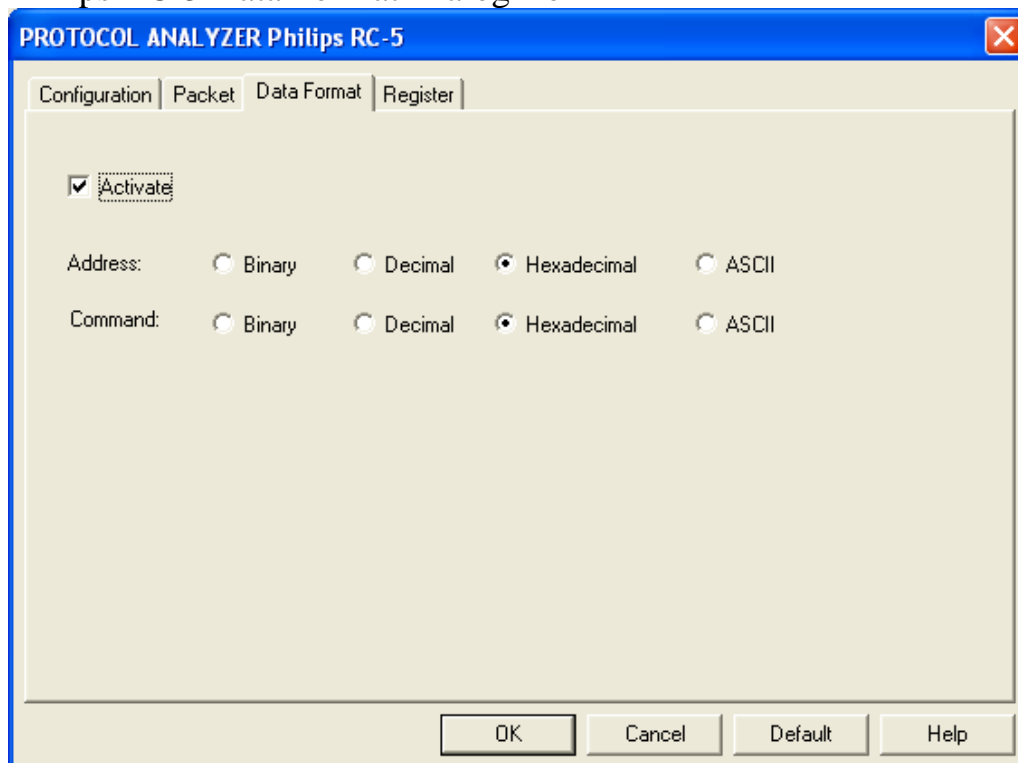


## Philips RC-5 Packet Dialog Box



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

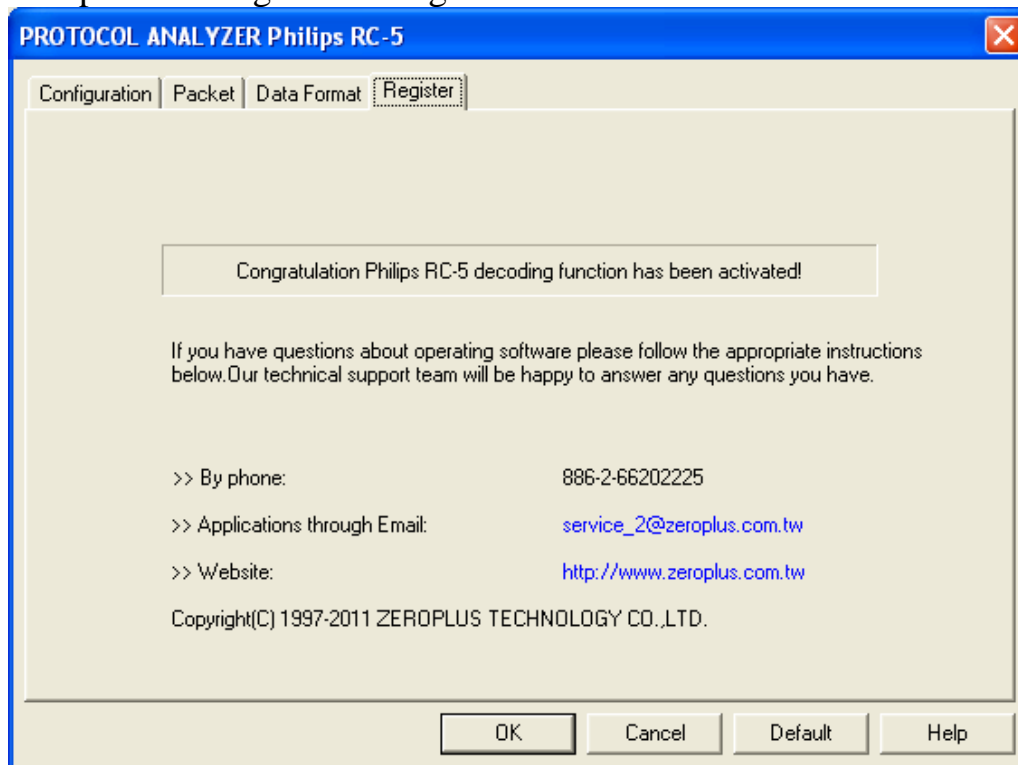
## Philips RC-5 Data Format Dialog Box



Users can set the Data Format of the Address and Command 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.



## Philips RC-5 Register Dialog Box



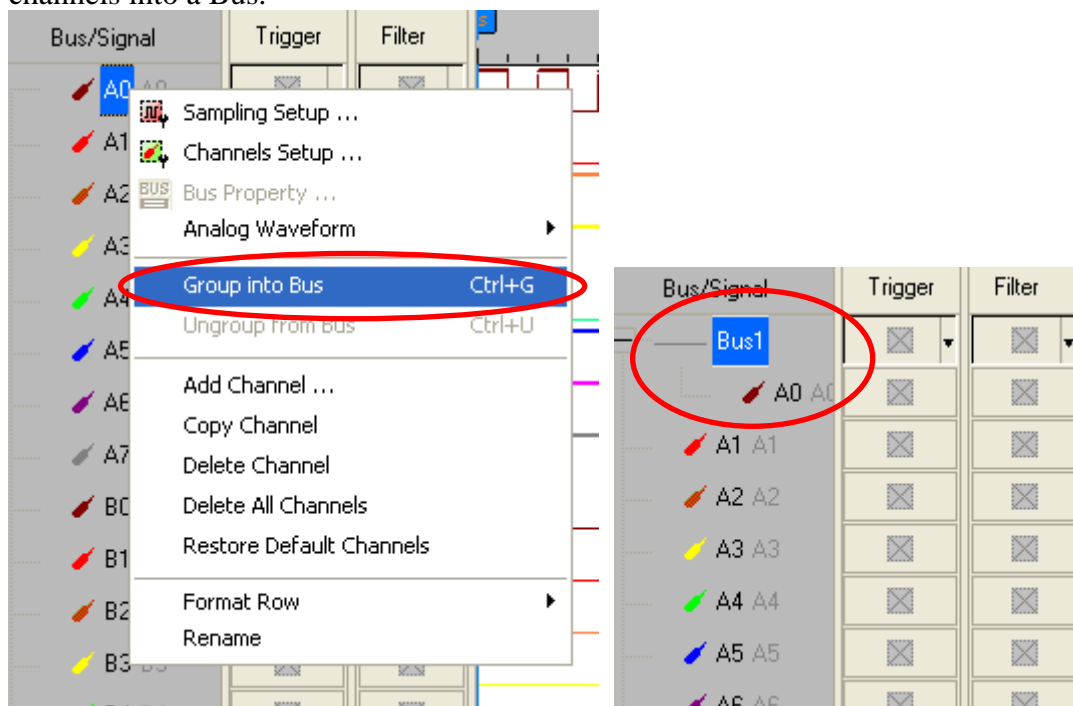
There is written ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.



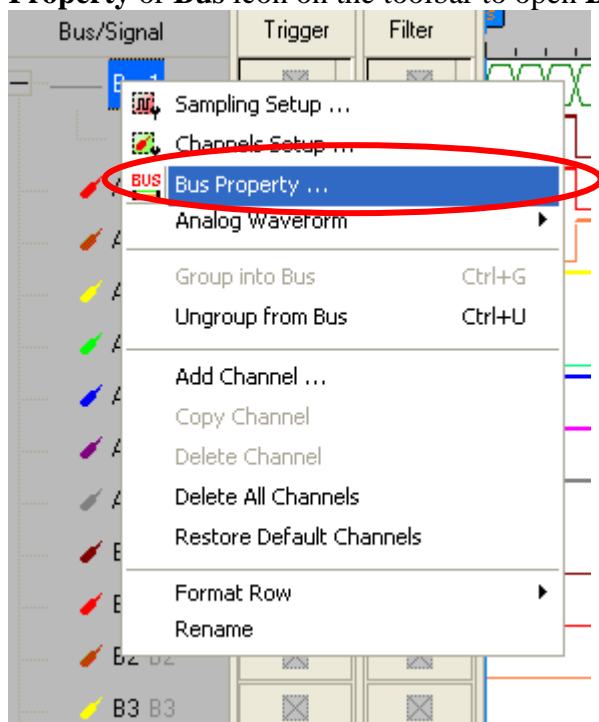


## 5 Operating Instructions

**STEP 1.** Group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse. Philips RC-5 only needs one channel to decode signals, so it is necessary to group one or more channels into a Bus.

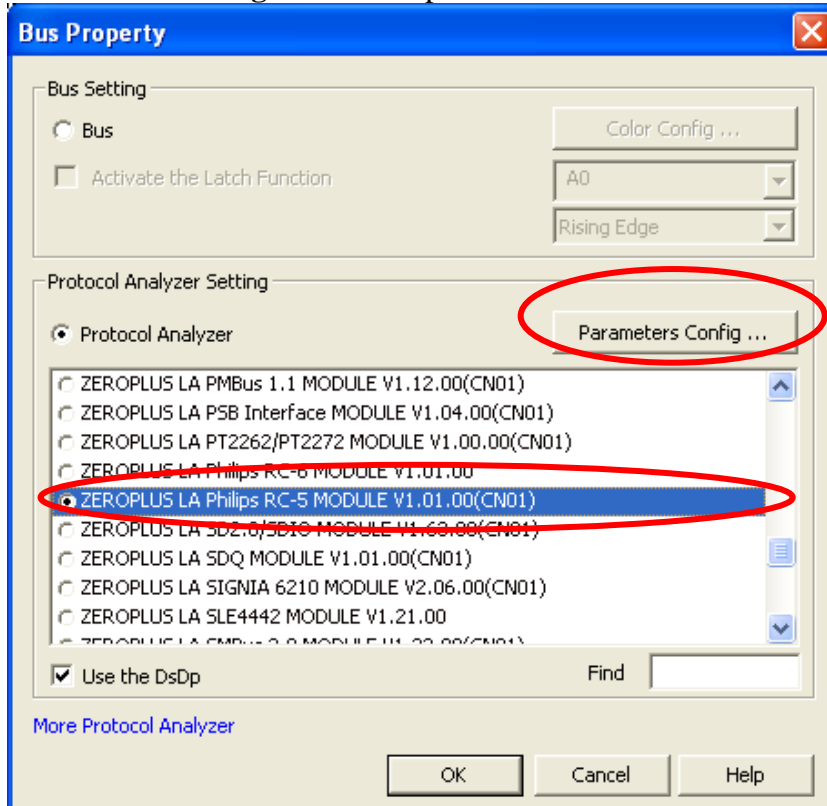


**STEP 2.** Select **Bus1**, then press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

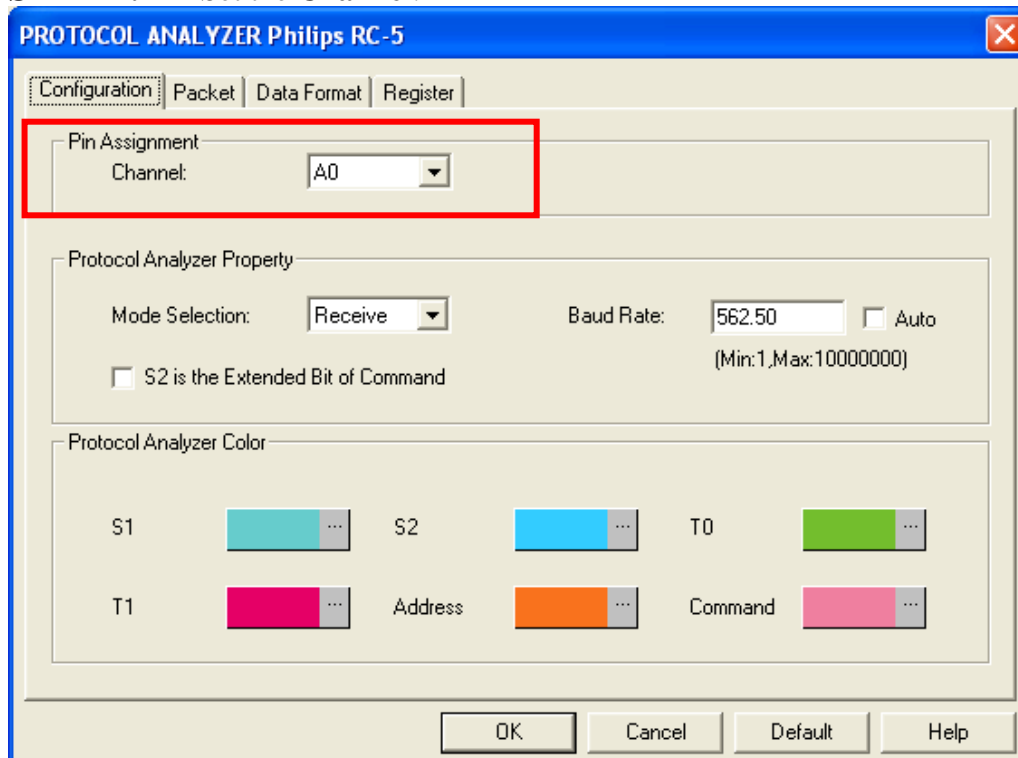




**STEP 3.** For Protocol Analyzer Philips RC-5 Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA Philips RC-5 MODULE V1.01.00(CN01)**. Next click **Parameters Configuration** to open the **PROTOCOL ANALYZER Philips RC-5** dialog box.

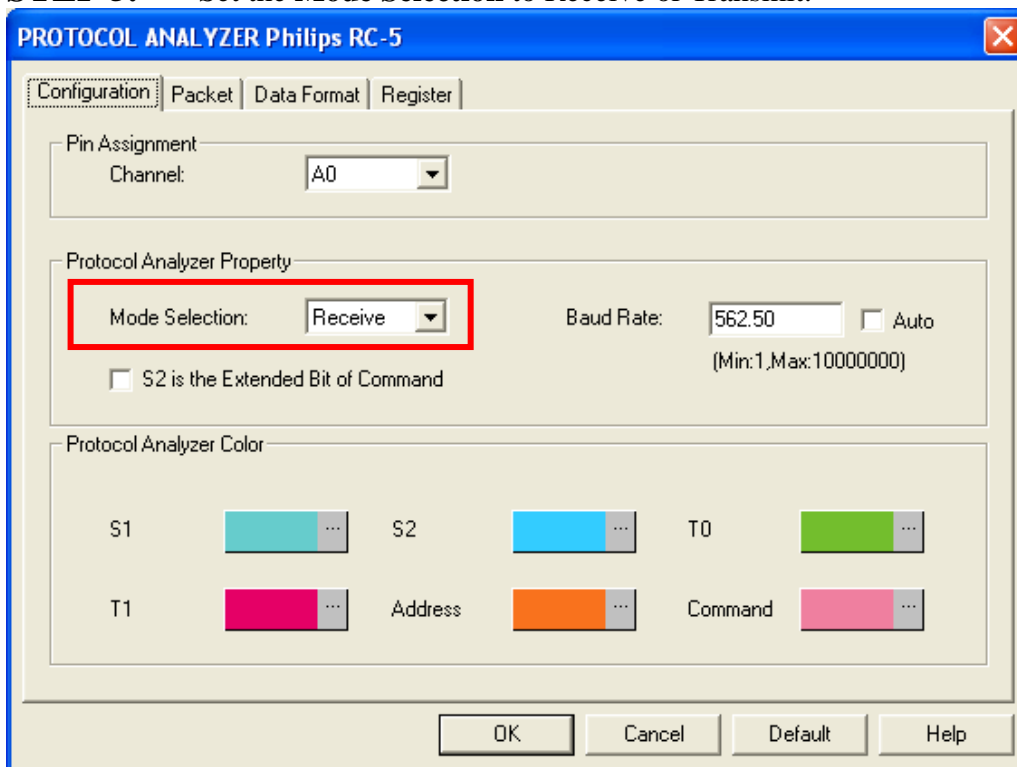


**STEP 4.** Set the Channel.

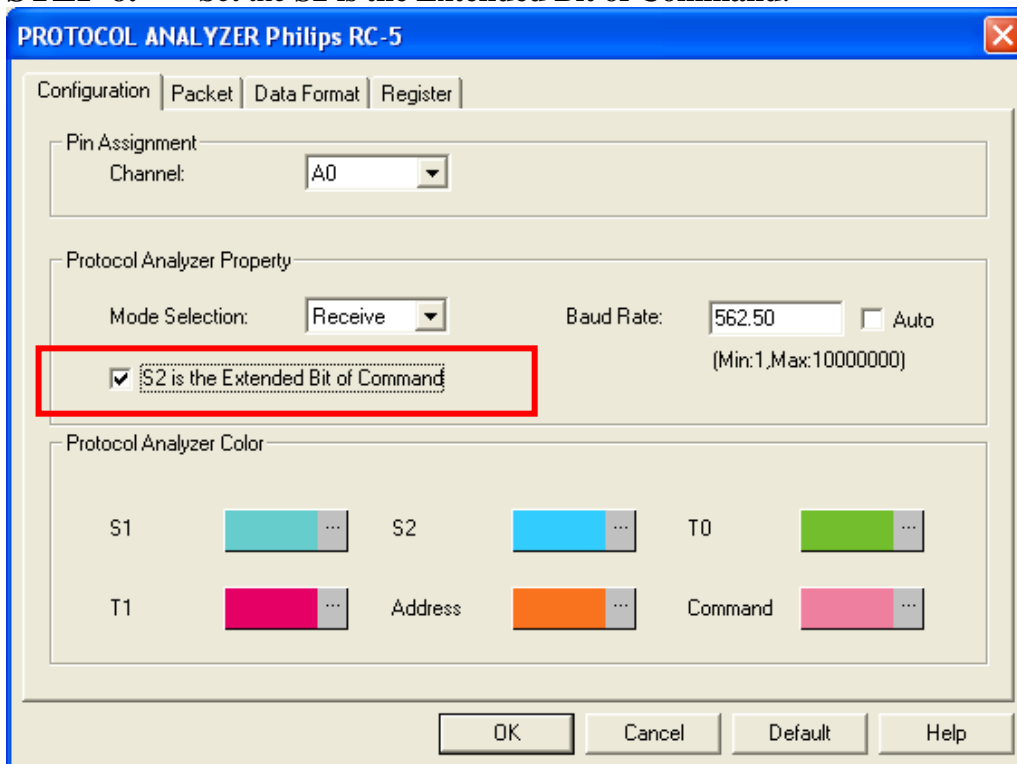




**STEP 5.** Set the **Mode Selection** to Receive or Transmit.

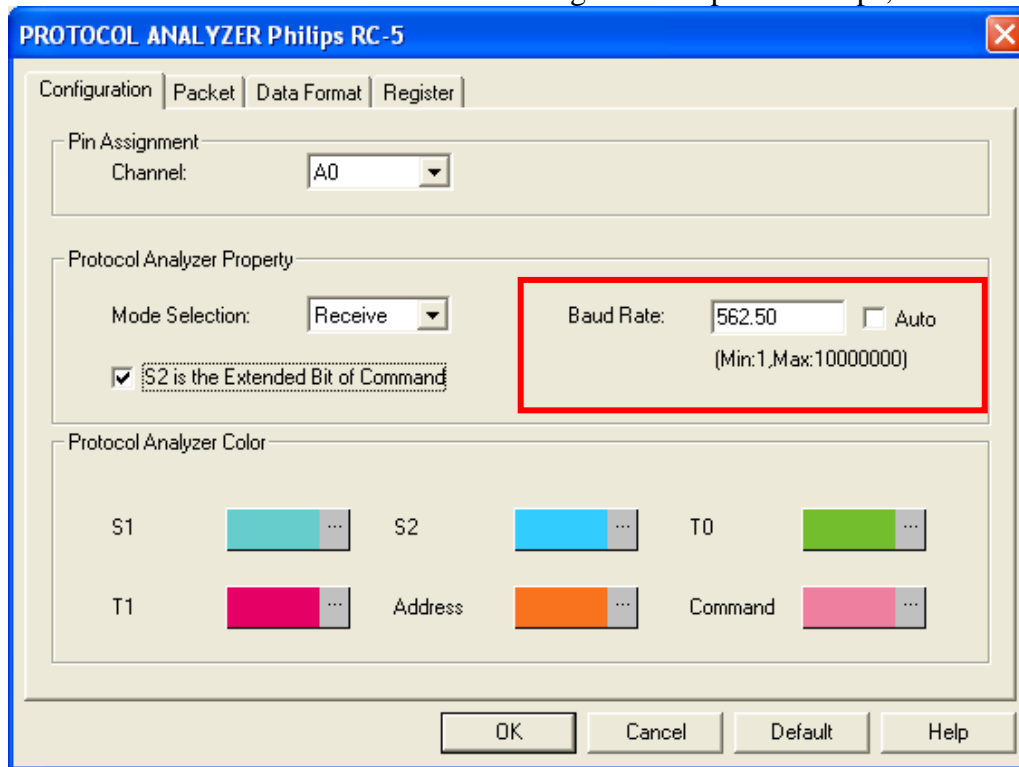


**STEP 6.** Set the **S2 is the Extended Bit of Command**.



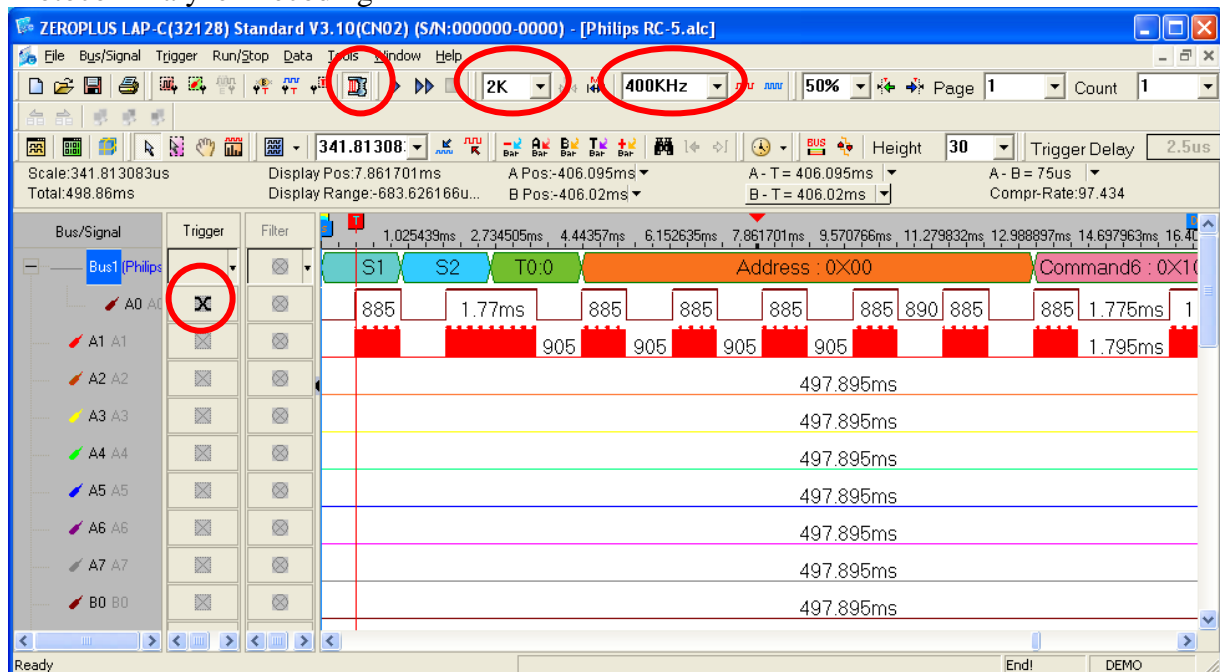


**STEP 7.** Set the **Baud Rate** in the range from 1bps to 10Mbps, and the default is 562.50.



**STEP 8.** Following pictures show the completion of the protocol analyzer decoding and the packet list. The Compression function is activated. The trigger condition is to set as Either Edge; the memory depth is 2K; the sampling frequency is 400 KHz (the sampling frequency should be more than 4 times higher than the signal to be tested).

#### Protocol Analyzer Decoding





## Packet List

