



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

SPECIFICATION

MODEL: B09029-LAP-MICROWIRE (EEPROM 93C)-M

PART NO: _____

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 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.

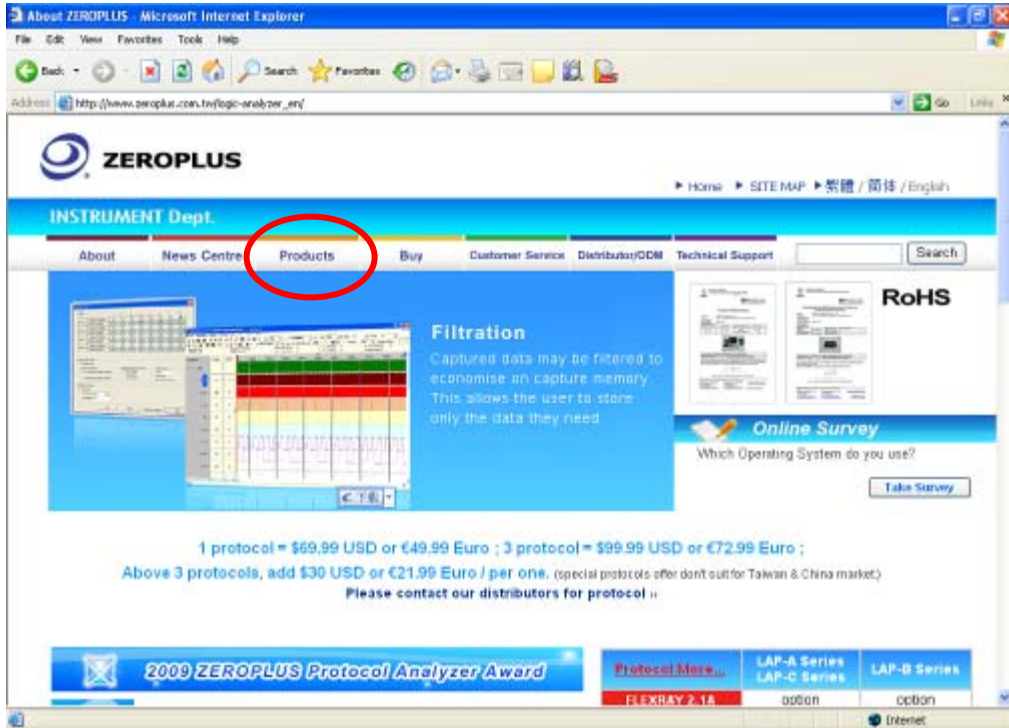
STEP 1. Visit the website of ZeroPlus: <http://www.zeroplus.com.tw>.

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

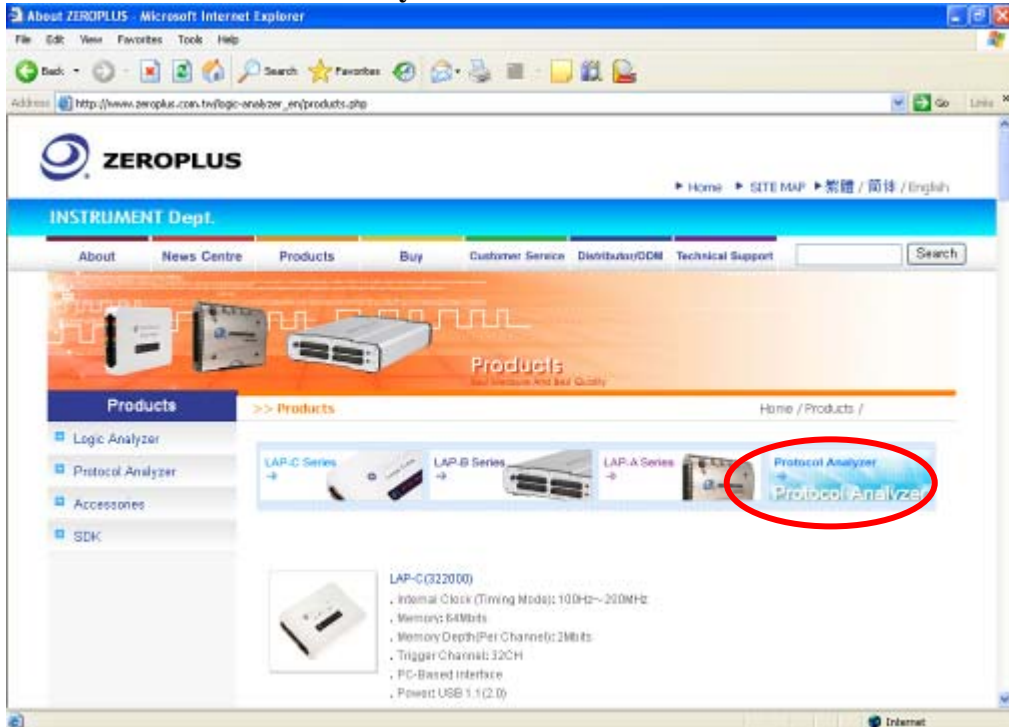




STEP 3. Click **Products** menu.

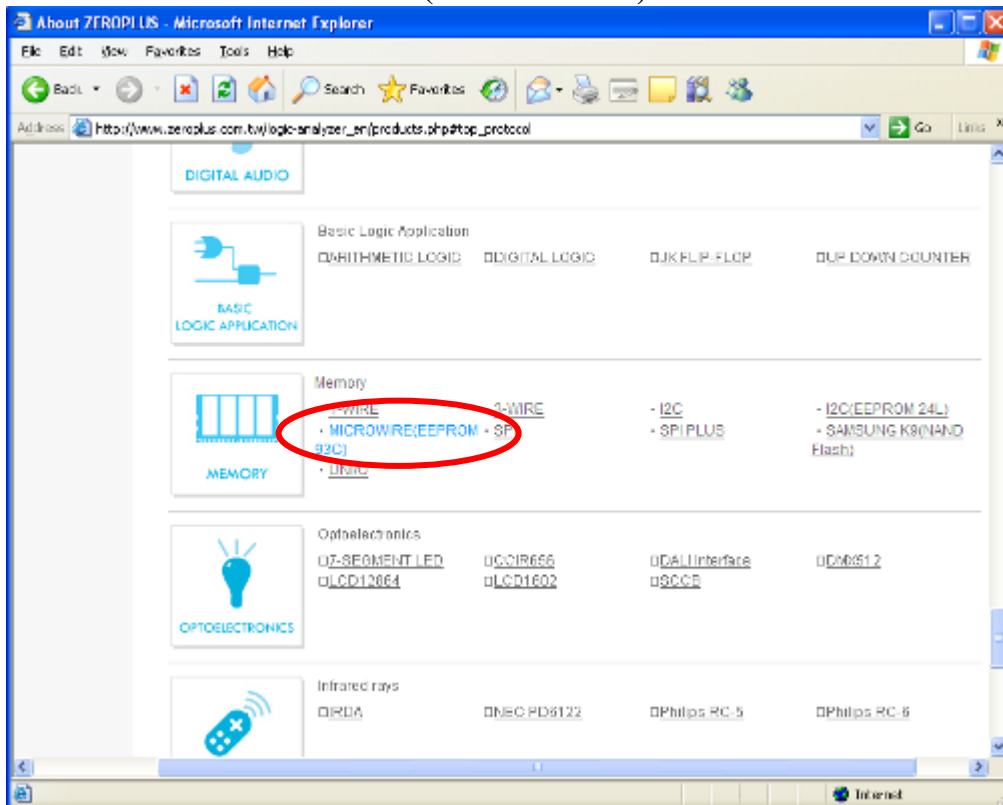


STEP 4. Click **Protocol Analyzer** icon.

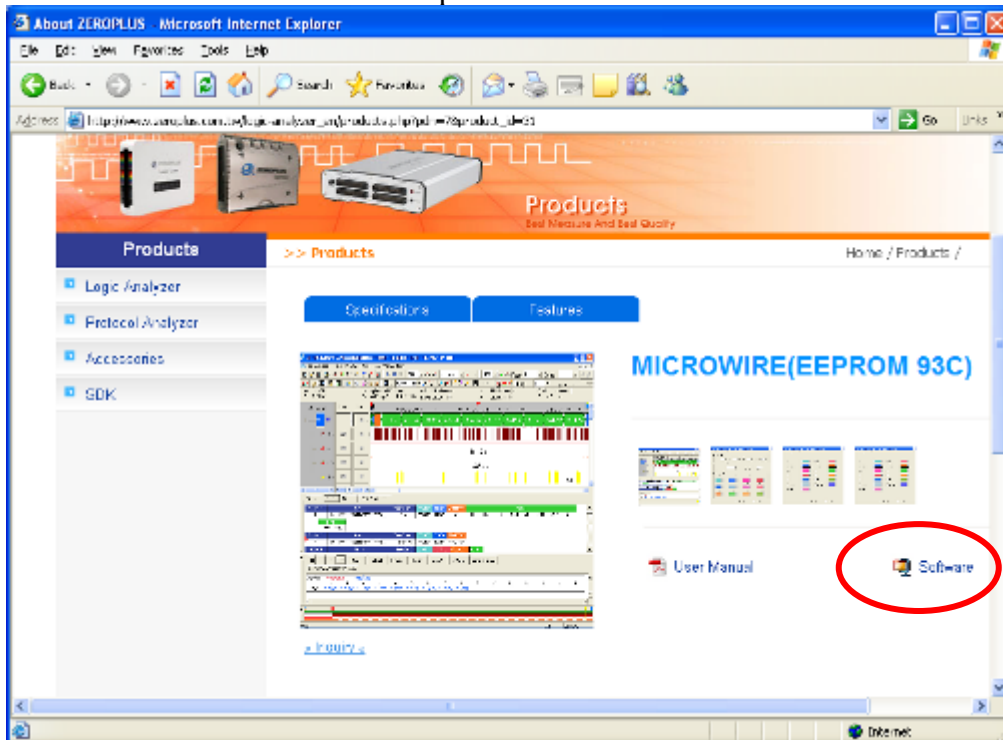




STEP 5. Click **MICROWIRE (EEPROM 93C)** in the REGISTER column.



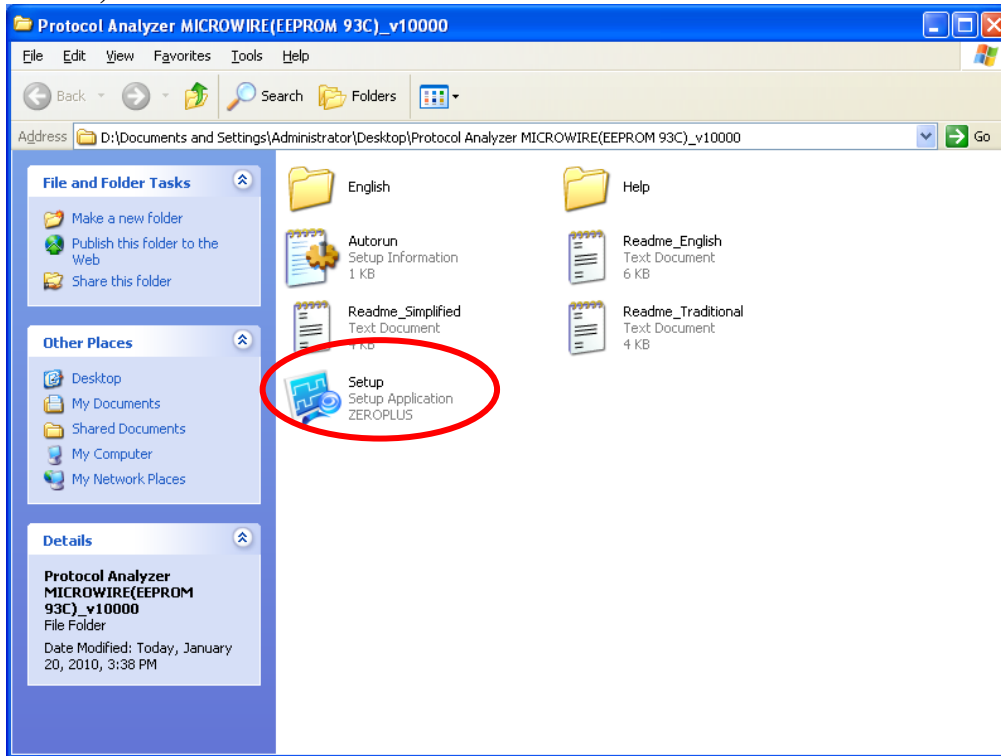
STEP 6. Click **Software** in the Products page. When the File Download dialog box appears, you can click **Save** button to save the compressed folder.



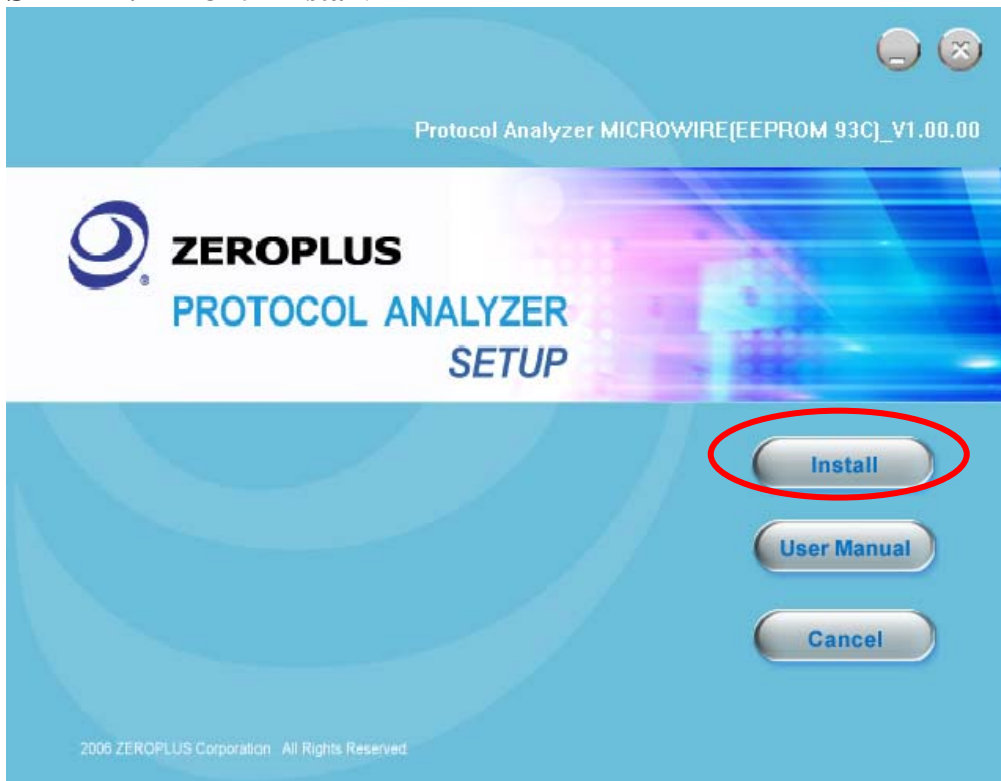


2 Software Installation

STEP 1. Open the downloaded folder to install **Protocol Analyzer MICROWIRE (EEPROM 93C)**.

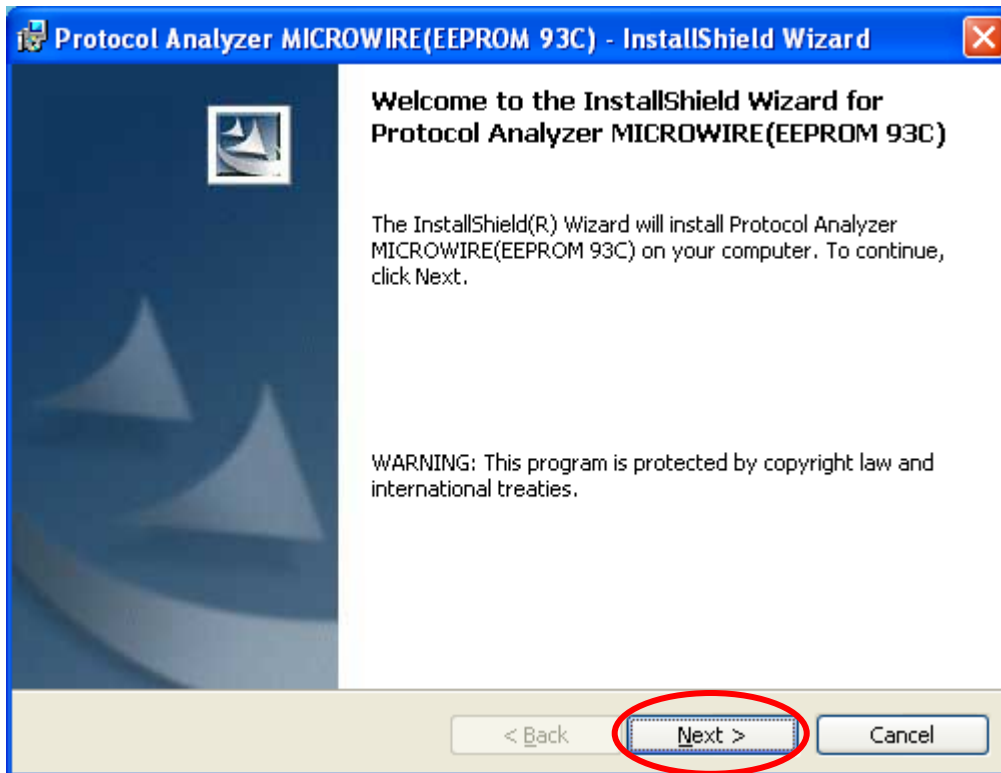


STEP 2. Click **Install**.

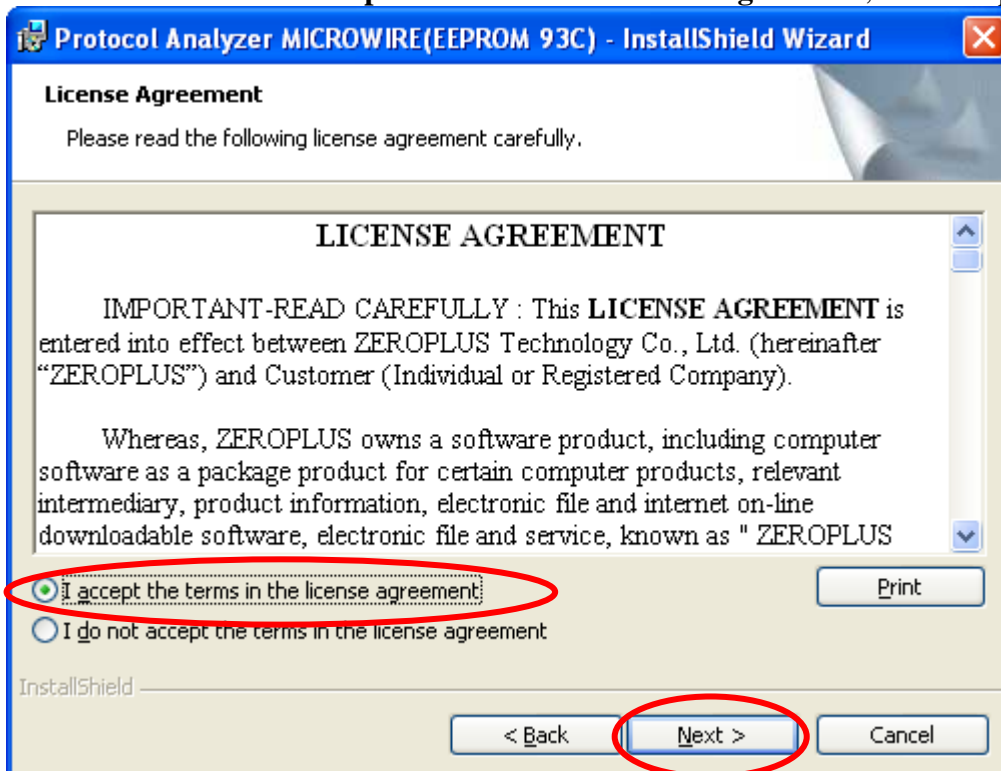




STEP 3. Click Next.

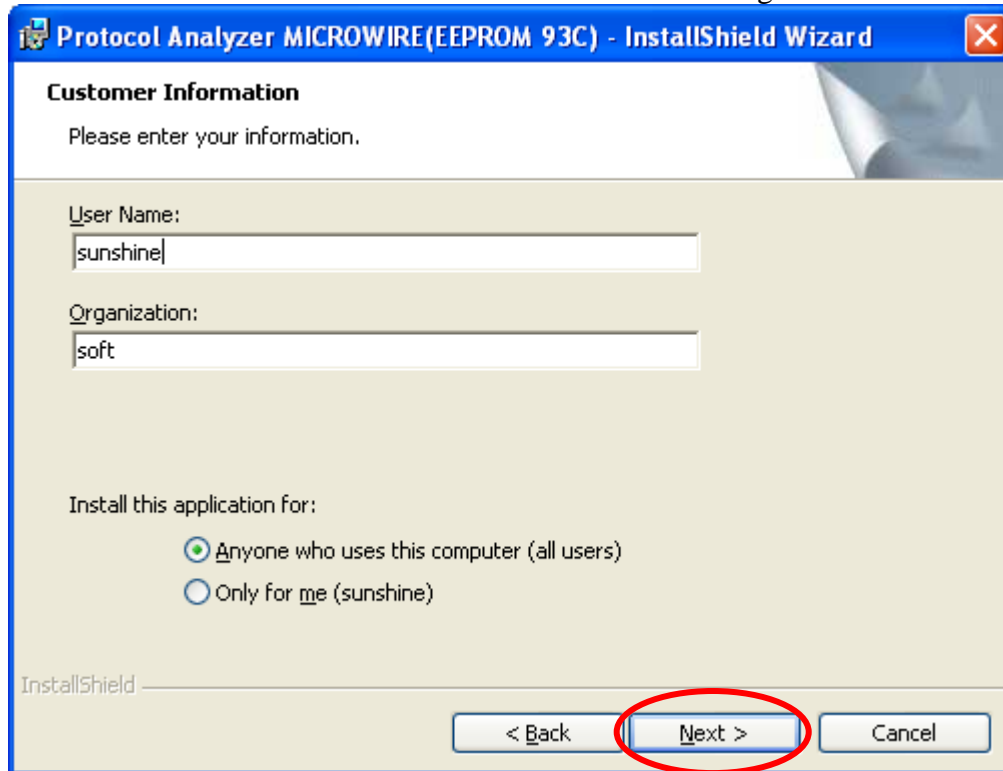


STEP 4. Select **I accept the terms in the license agreement**, and then press **Next**.

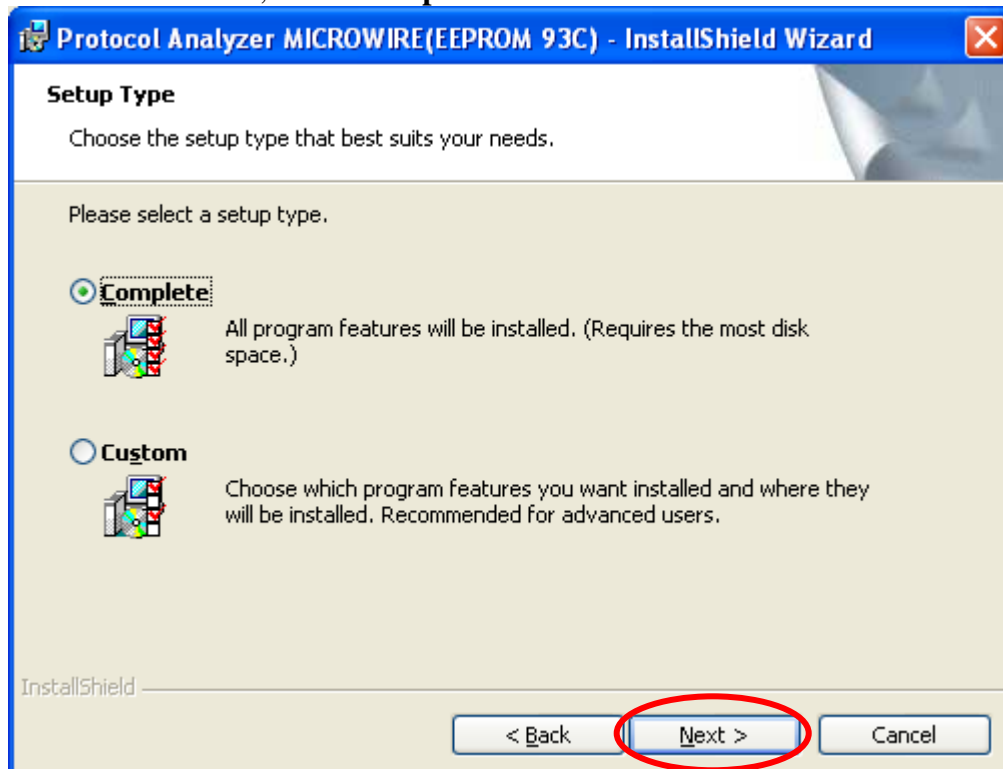




STEP 5. Fill in users' information in the below dialog box and click **Next**.

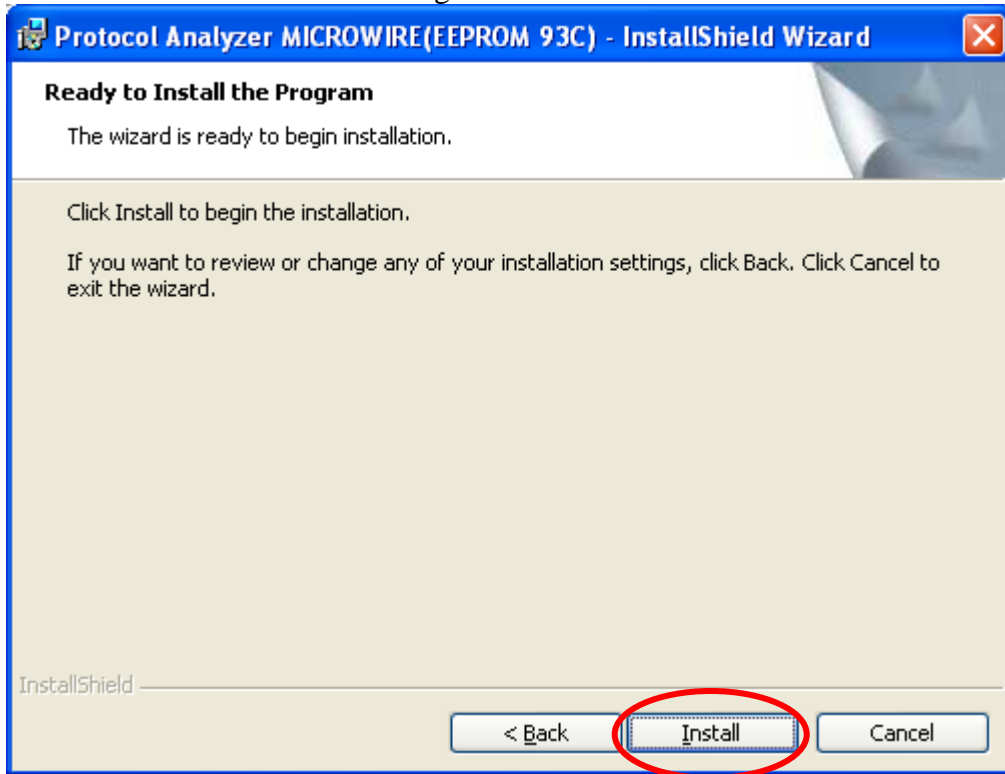


STEP 6. First, select **Complete** and then click **Next**.

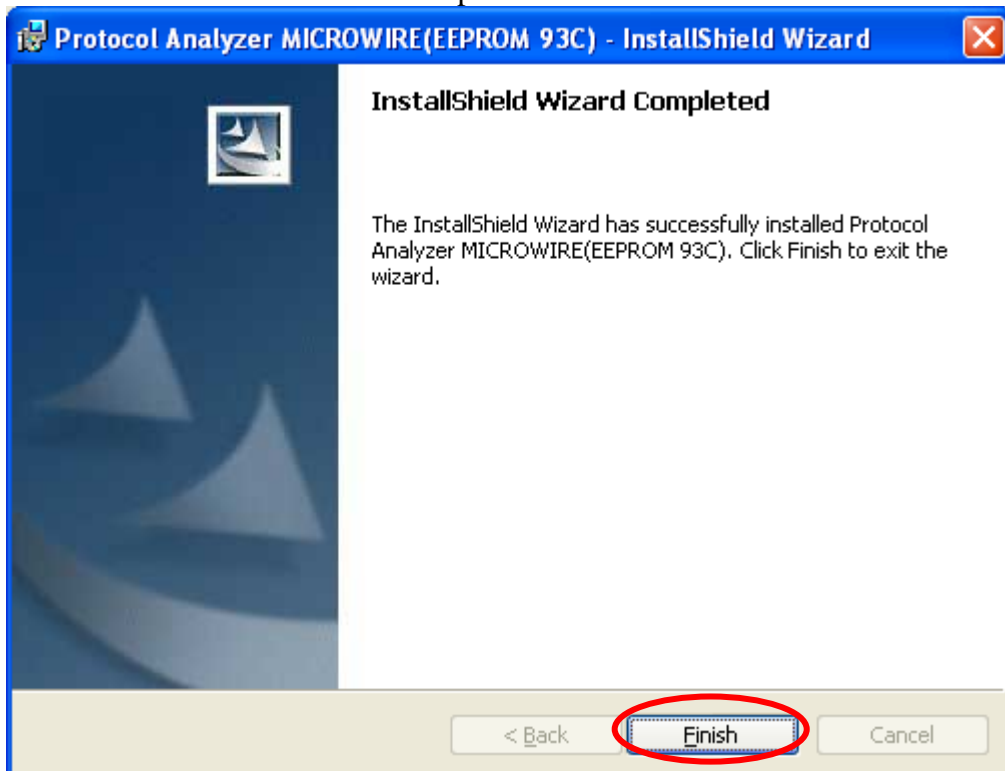




STEP 7. Click **Install** to begin the installation.



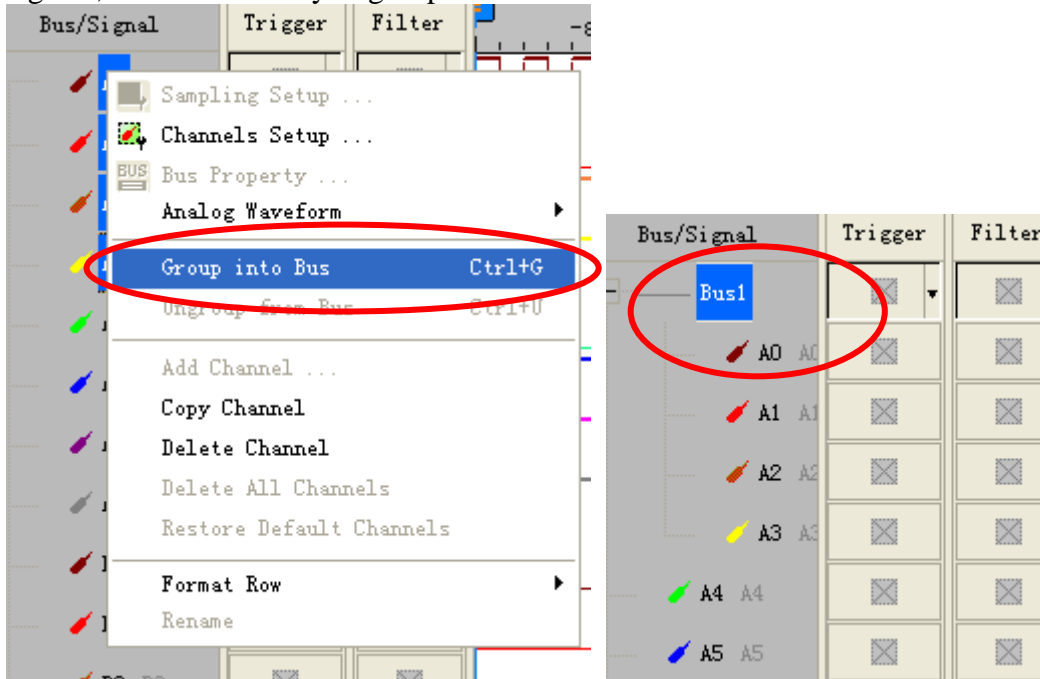
STEP 8. Click **Finish** to complete the installation.



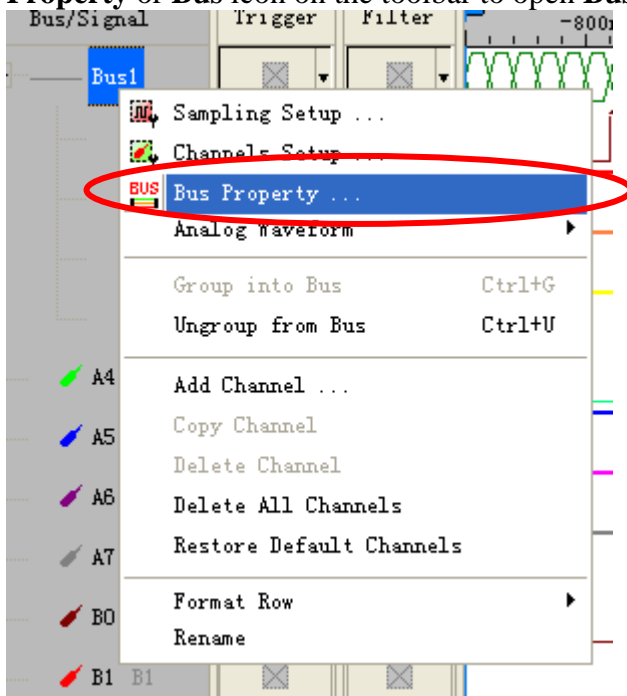


3 Software Register

STEP 1. Open the Logic Analyzer and group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse. **MICROWIRE (EEPROM 93C)** needs more than three channels to decode signals, so it is necessary to group four or more channels into a Bus.

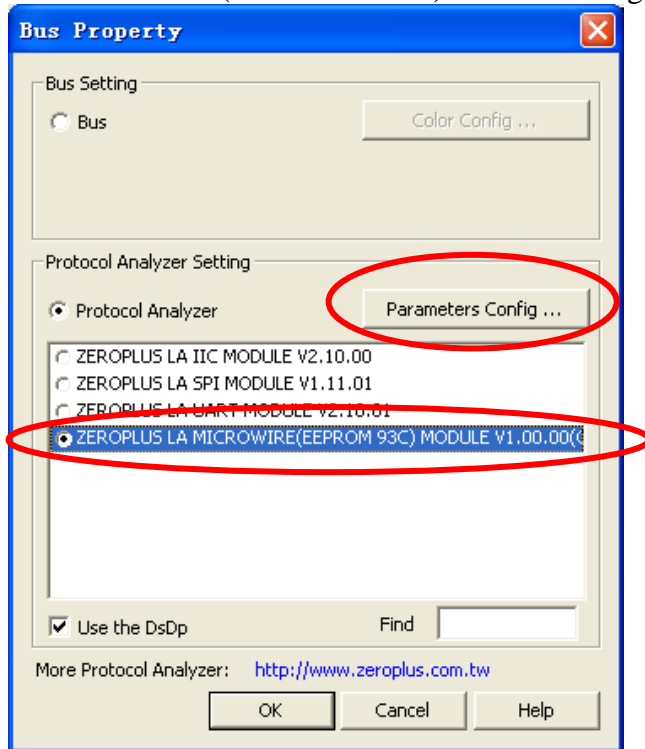


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

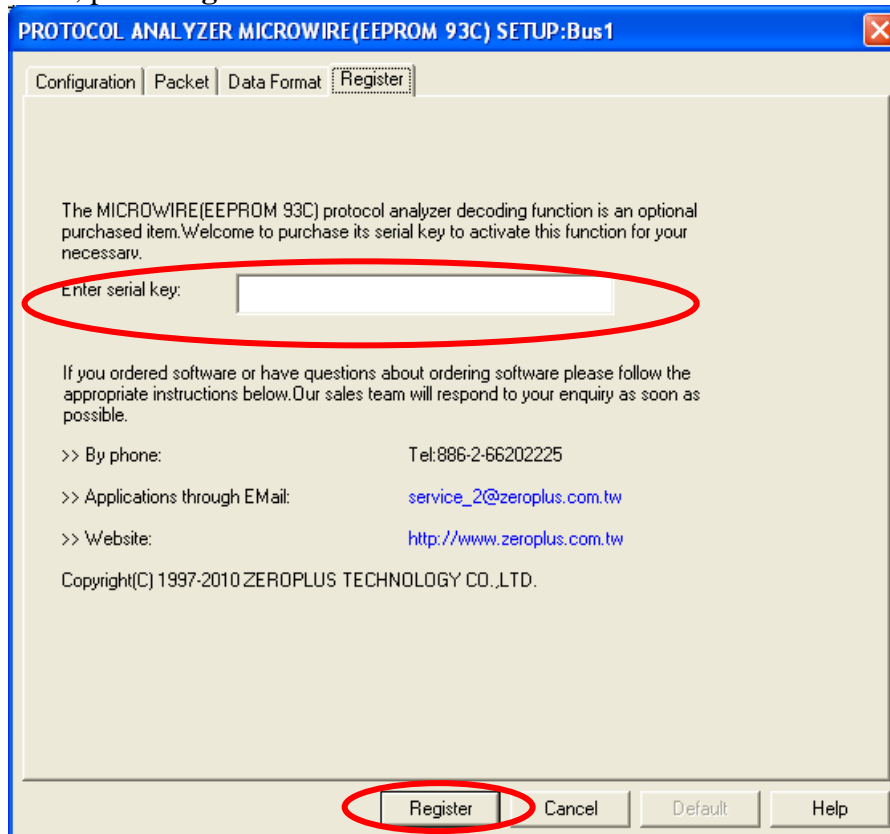




STEP 3. For Protocol Analyzer MICROWIRE (EEPROM 93C) Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA MICROWIRE (EEPROM 93C) MODULE V1.00.00**. Next click **Parameters Configuration** to open the **PROTOCOL ANALYZER MICROWIRE (EEPROM 93C) SETUP** dialog box.

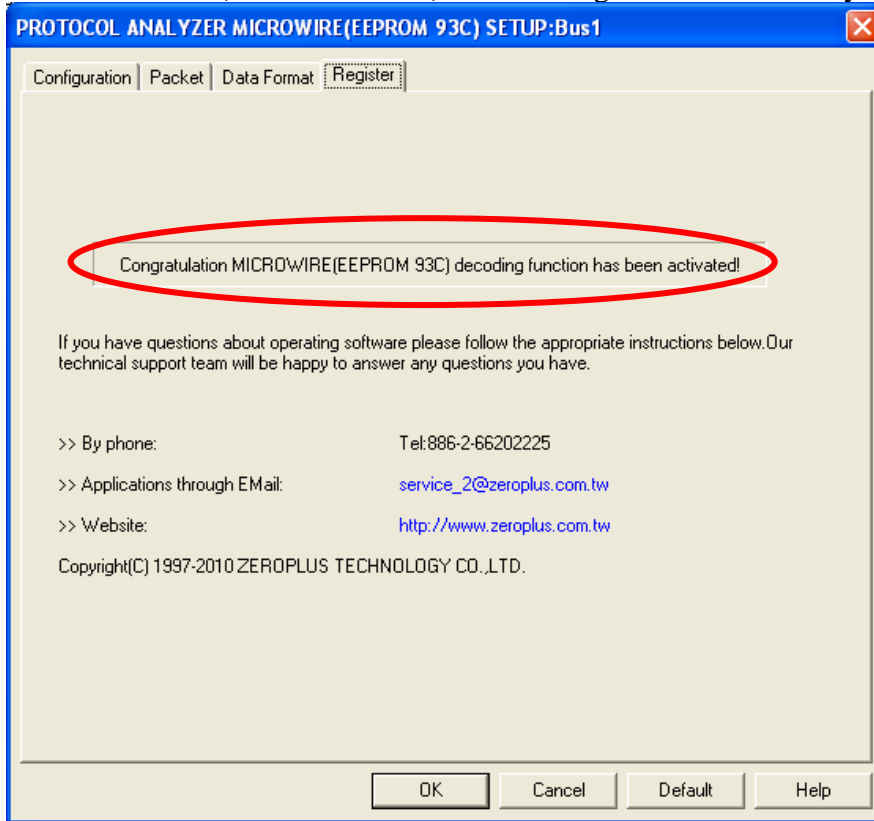


STEP 4. Press Register tab to type the serial key number of **MICROWIRE (EEPROM 93C)**. Then, press **Register**.





STEP 5. After pressing the Register button, following dialog box will appear; it denotes that the **MICROWIRE (EEPROM 93C)** has been registered successfully.

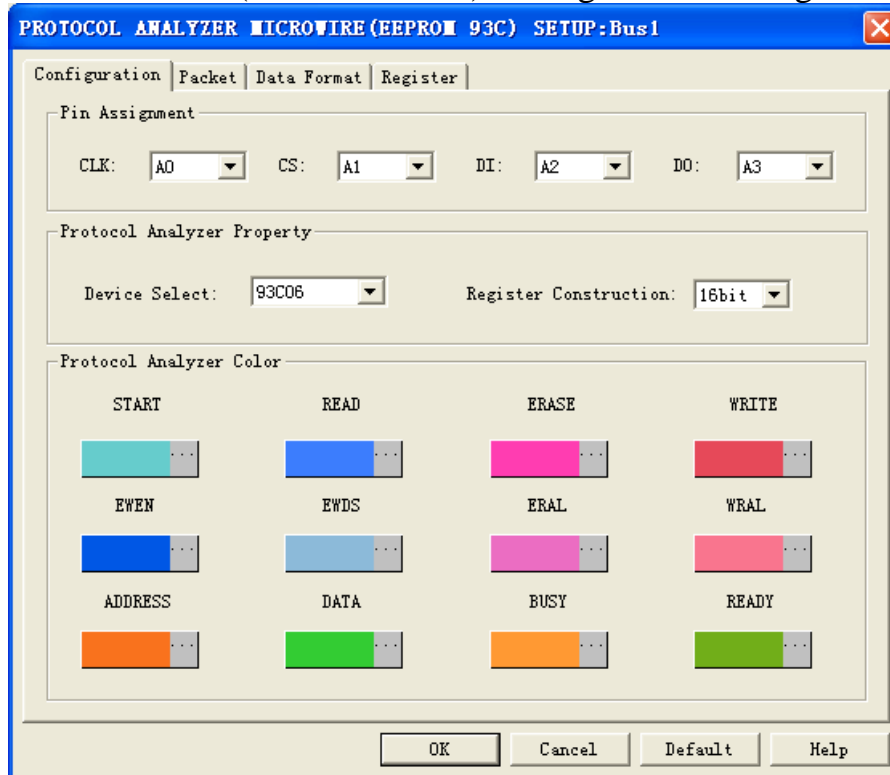




4 User Interface

In the configuration, please refer to below images to select options of setting **MICROWIRE (EEPROM 93C)** module.

MICROWIRE (EEPROM 93C) Configuration Dialog Box



Pin Assignment:

CLK: It is the Clock channel of the Protocol Analyzer.

CS: It is the Device Chip Select channel, and it is available for the High Level.

DI: It is the Command, Address and Data Input channel.

DO: It is the Data Output channel.

Protocol Analyzer Property:

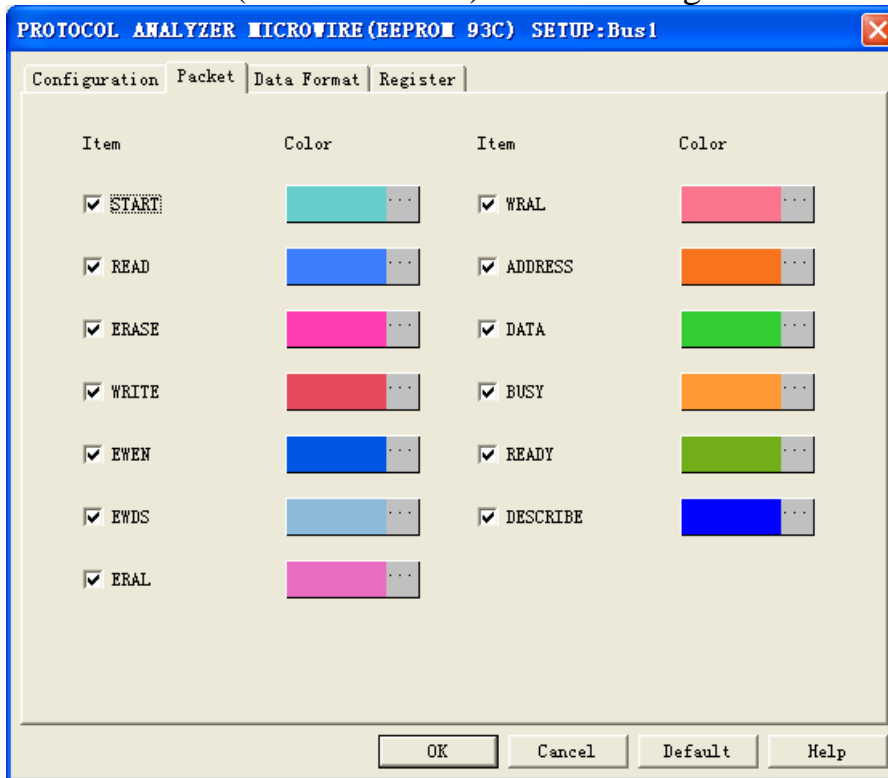
Device Select: There are seven kinds of devices to be selected from the dropdown menu, namely, 93C06, 93C46, 93C56, 93C57, 93C66, 93C76 and 93C86. The default device is 93C06.

Register Construction: There are two modes for the Register Construction, namely, 8bit and 16bit. The default mode is 16bit.

Protocol Analyzer Color: The protocol analyzer colors can be varied by users.

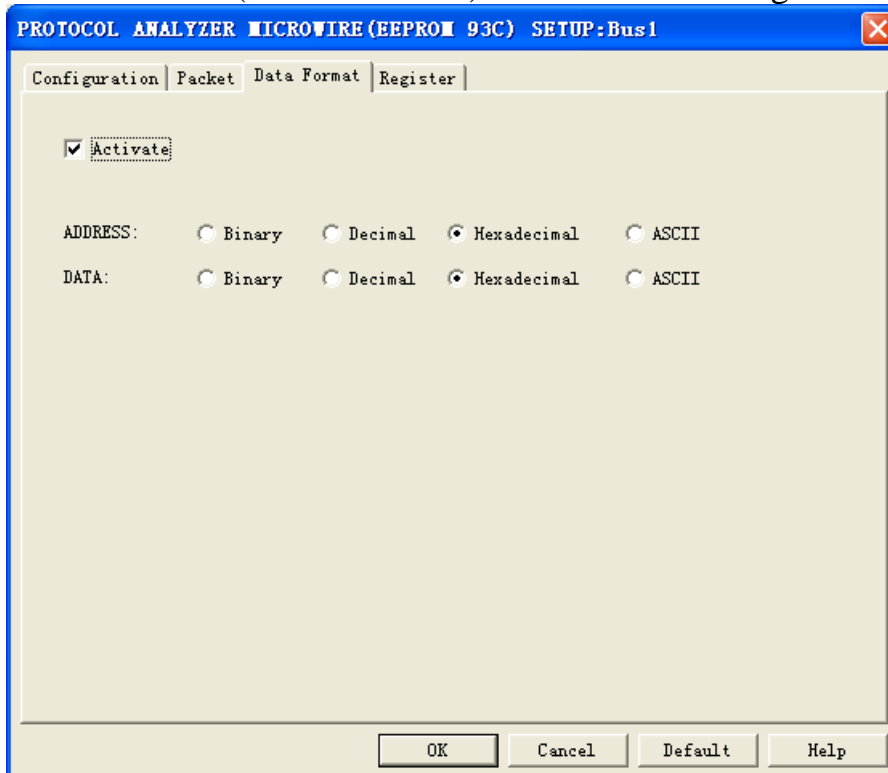


MICROWIRE (EEPROM 93C) Packet Dialog Box



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

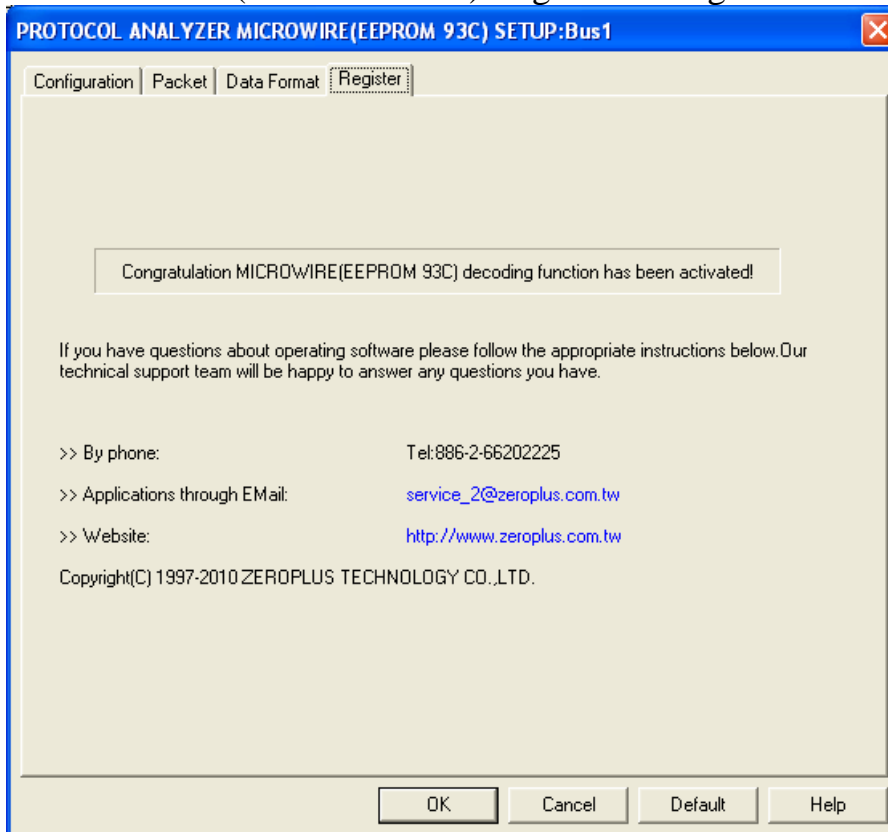
MICROWIRE (EEPROM 93C) Data Format Dialog Box



Users can set the Data Format of the ADDRESS and DATA as their requirements. When selecting the option, Activate, the data formats are decided by the settings in the Protocol Analyzer; when not selecting the option, Activate, the data formats are decided by the settings in the main program.



MICROWIRE (EEPROM 93C) Register Dialog Box

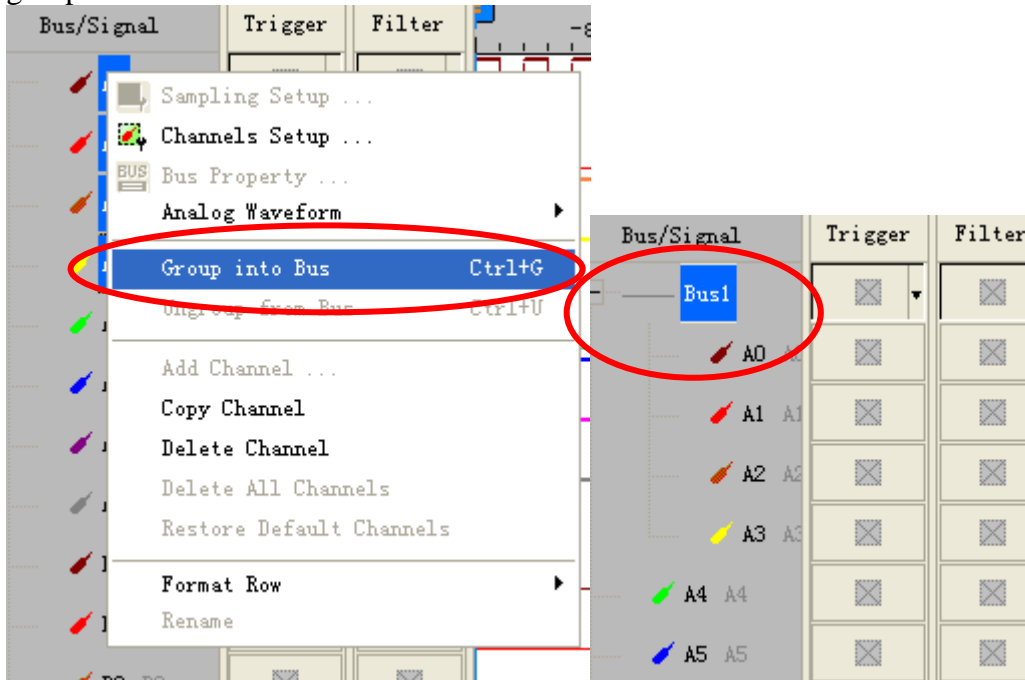


There is ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

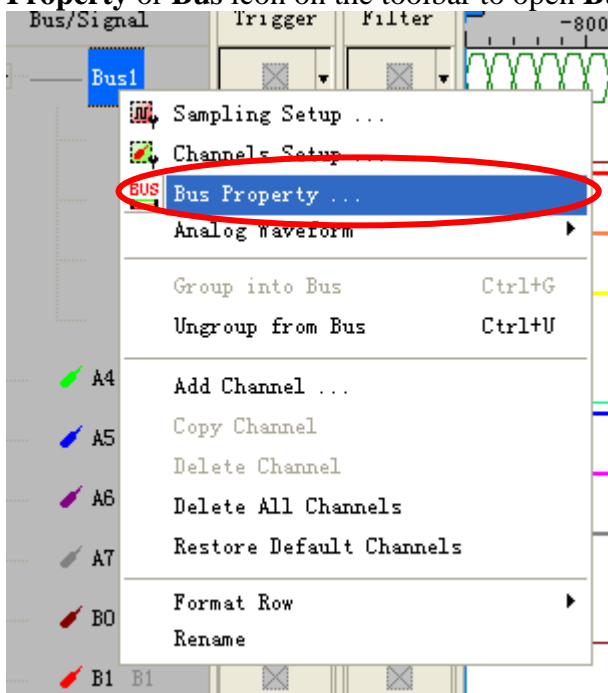


5 Operating Instructions

STEP 1. Group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse. MICROWIRE (EEPROM 93C) needs more than three channels to decode signals, so it is necessary to group four or more channels into a Bus.

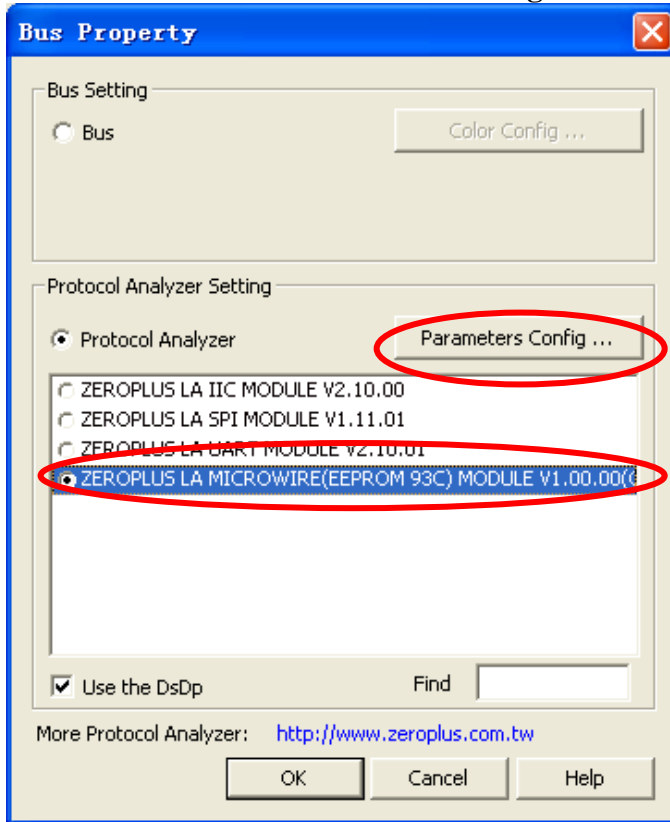


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

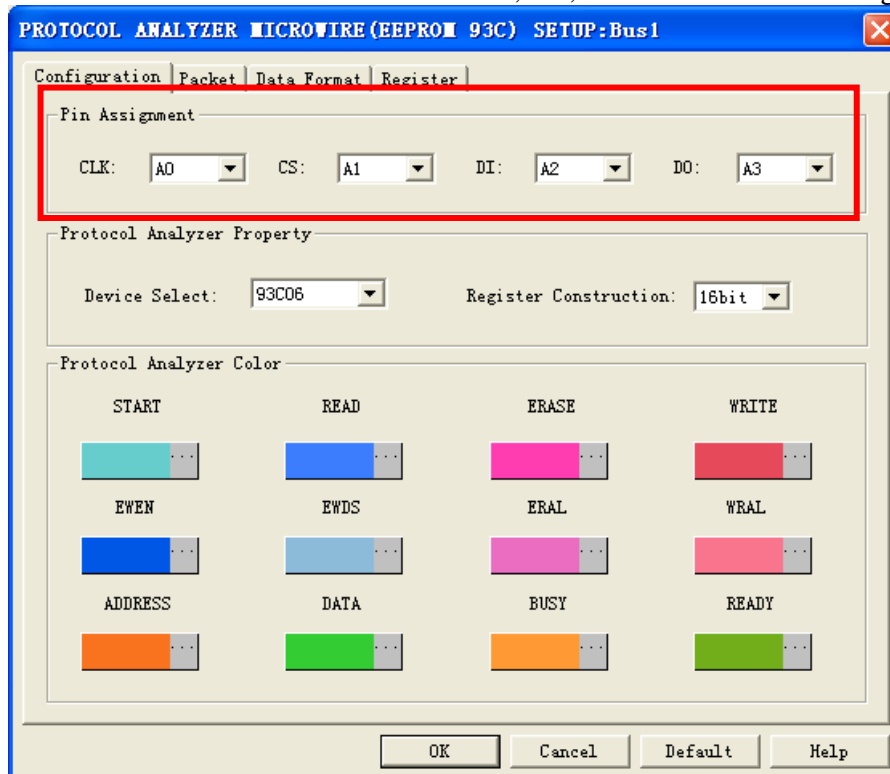




STEP 3. For Protocol Analyzer MICROWIRE (EEPROM 93C) Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA MICROWIRE (EEPROM 93C) MODULE V1.00.00**. Next click **Parameters Configuration** to open the **Configuration** dialog box.

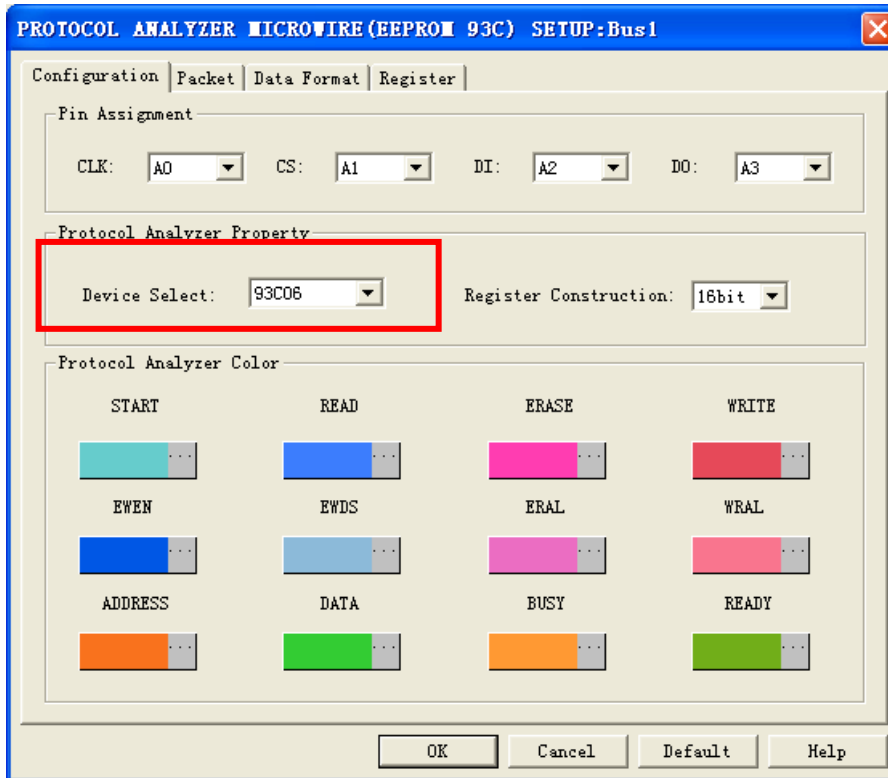


STEP 4. Set the channel for CLK, CS, DI and D0 in the Configuration dialog box

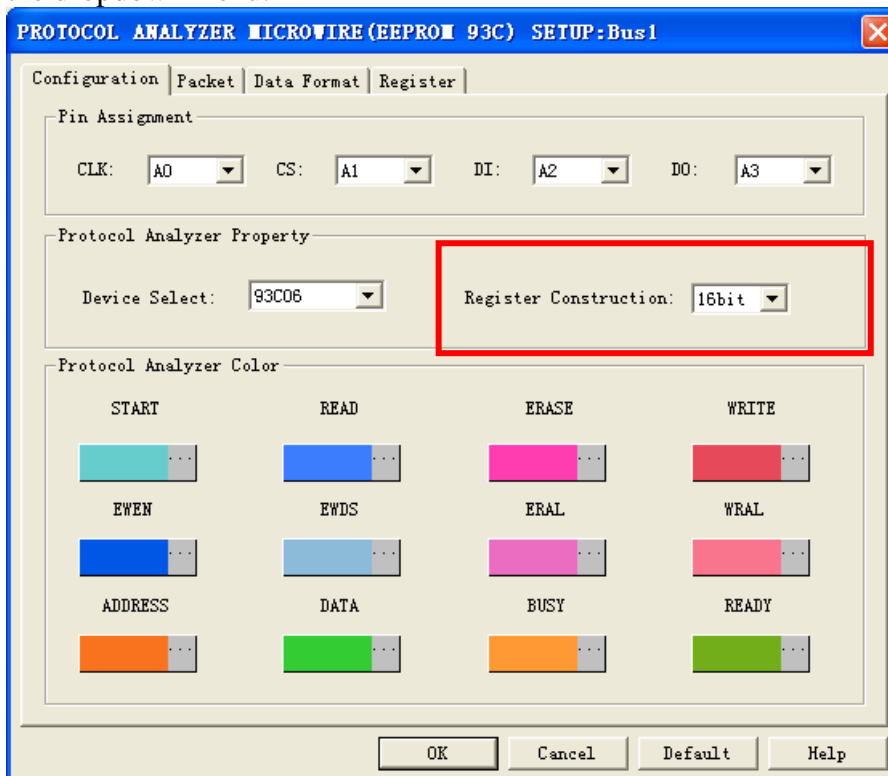




STEP 5. In the **Protocol Analyzer Property** part, select the required Device from the dropdown menu.

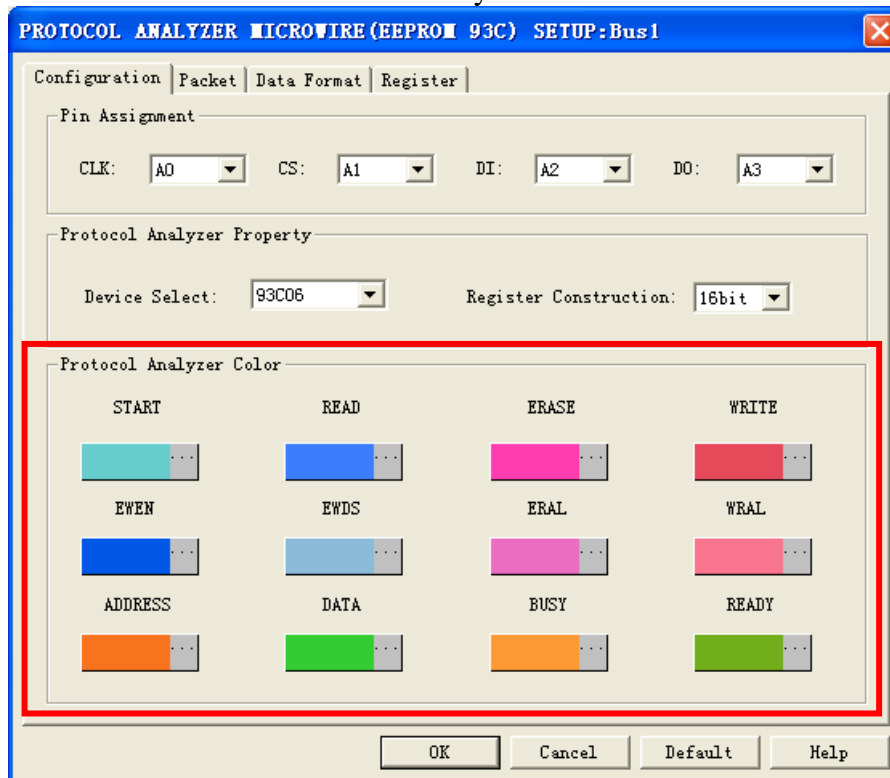


STEP 6. In the **Protocol Analyzer Property** part, select the required Register Construction from the dropdown menu.



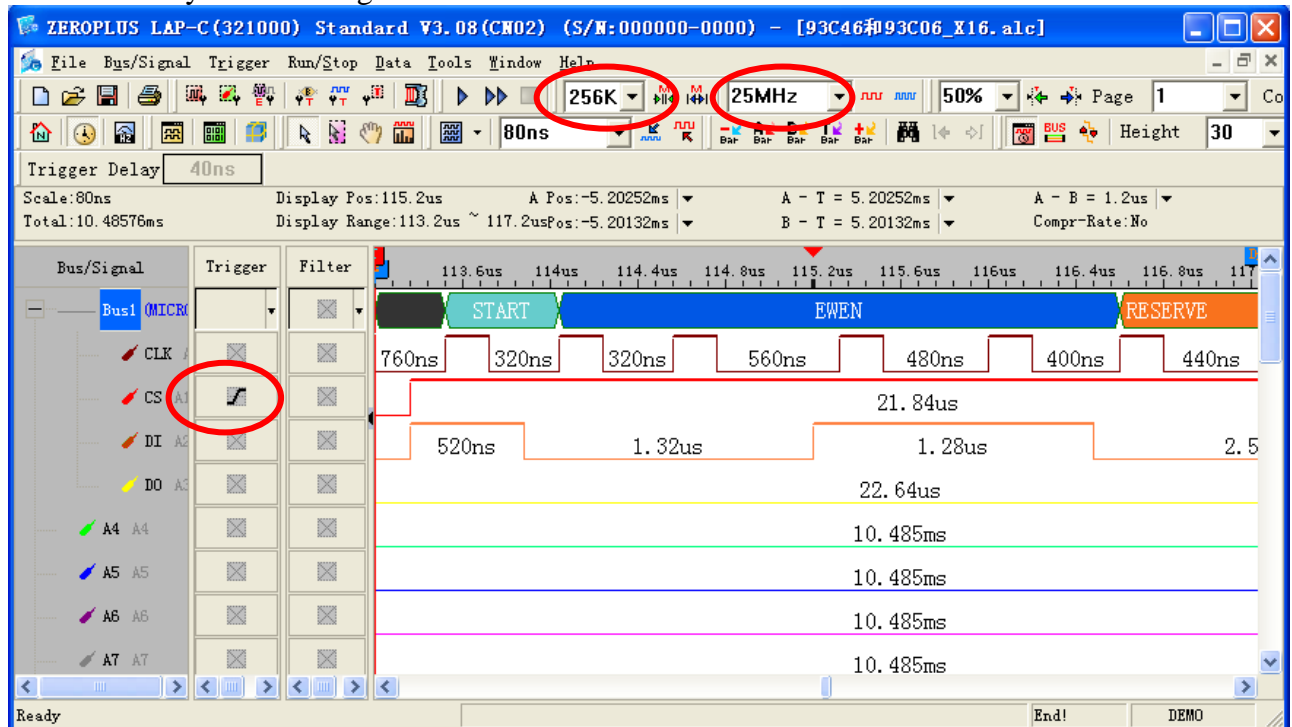


STEP 7. Set the Protocol Analyzer Color.



STEP 8. Following pictures show the completion of the protocol analyzer decoding and packet list. The trigger condition is set as Rising Edge; the memory depth is 256K; the sampling frequency is 25MHz (the sampling frequency should be more than eight times higher than the signal to be tested).

Protocol Analyzer Decoding





Packet List

