



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

# SPECIFICATION

**MODEL: B08007-LAP-NEC PD6122-M**

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

**VERSION:** V1.11

Approver		Check	Design
GM	PM		

Customer Confirm

\*Please fax the file to Zeroplus Technology after signing.

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## 1 Software Download

Please install 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.

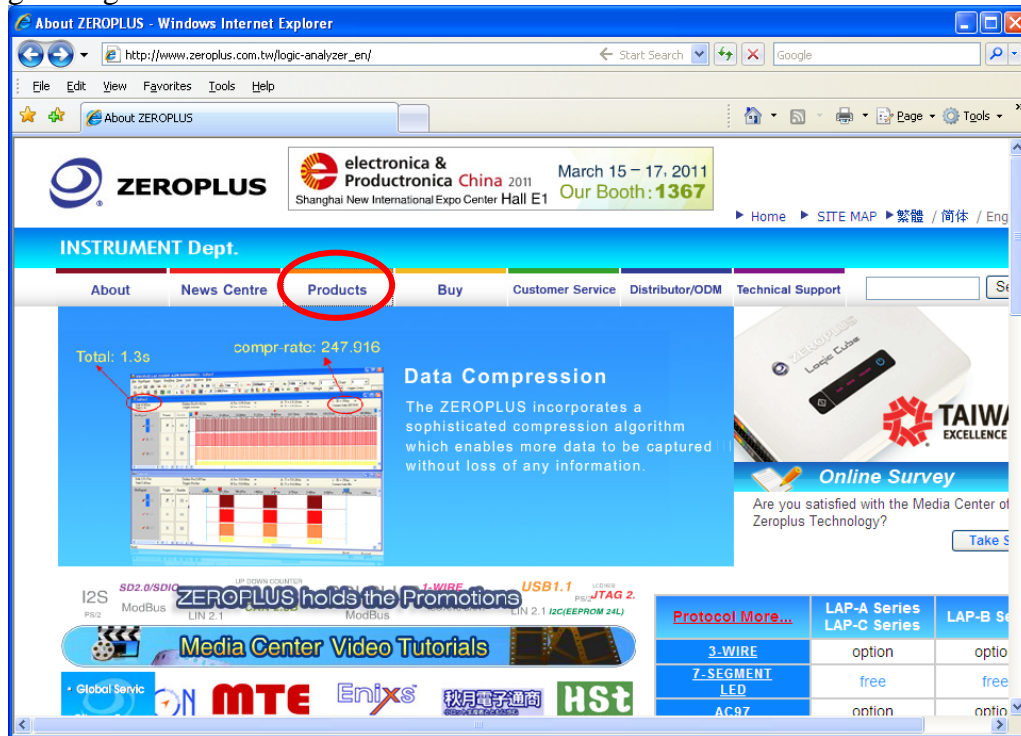
**STEP 1.** Visit the website of ZeroPlus: <http://www.zeroplus.com.tw>.

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

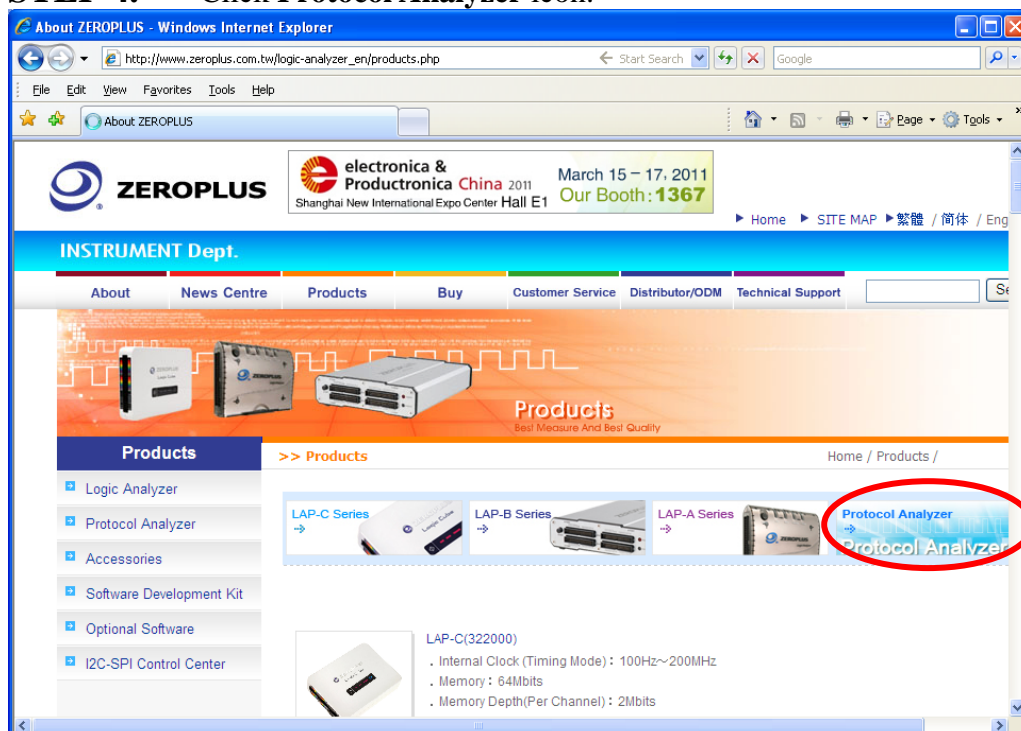




**STEP 3.** Click **Products** menu or select **Protocol Analyzer** item from its pull-down menu to go straight to STEP 5.

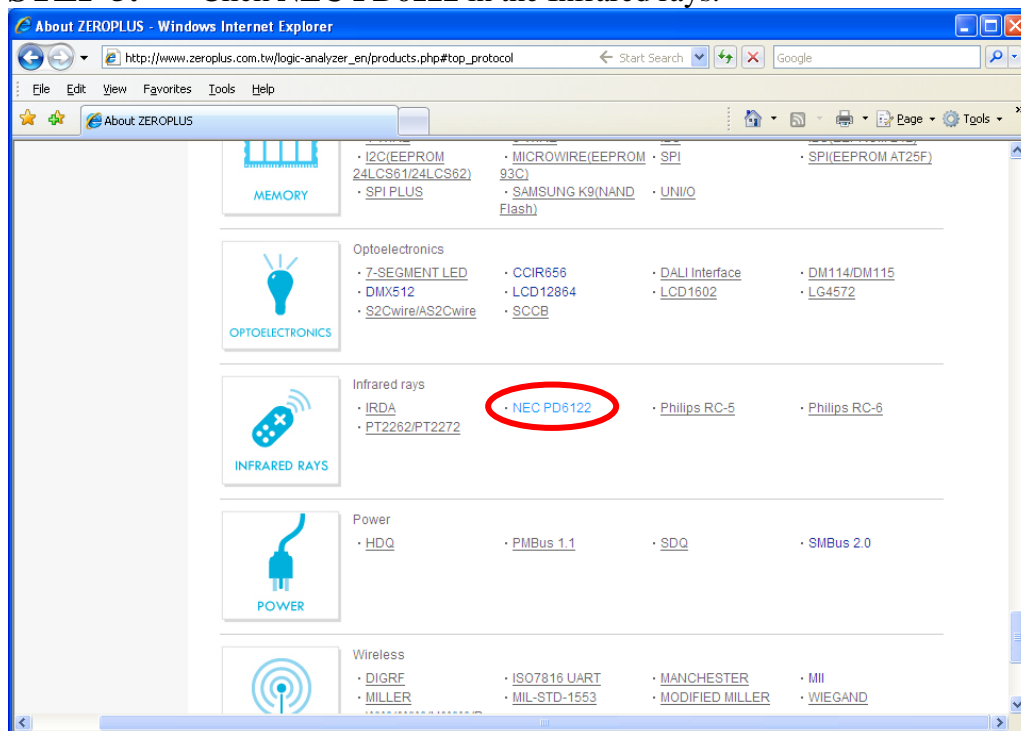


**STEP 4.** Click **Protocol Analyzer** icon.

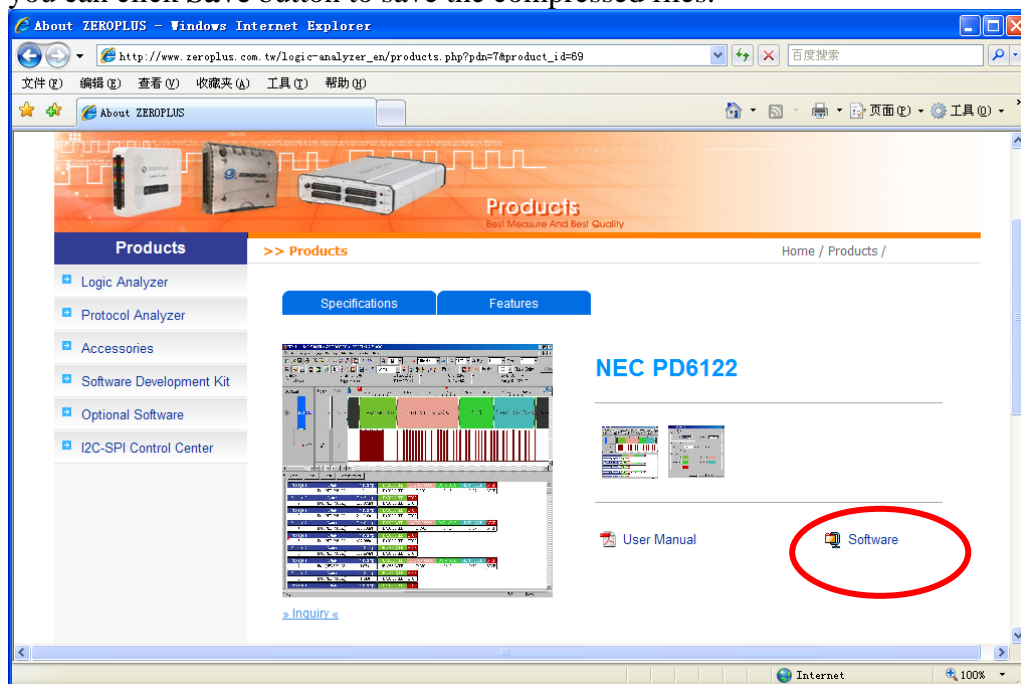




**STEP 5.** Click **NEC PD6122** in the Infrared rays.



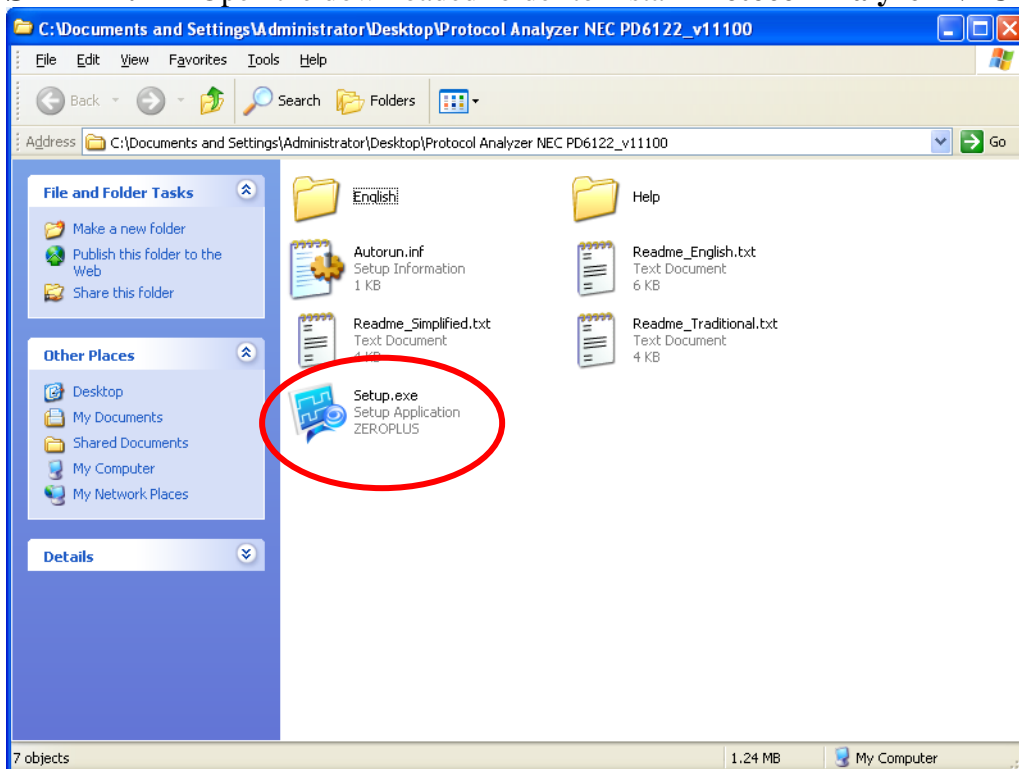
**STEP 6.** Click **Software** in the Products page. When the File Download dialog box appears, you can click **Save** button to save the compressed files.



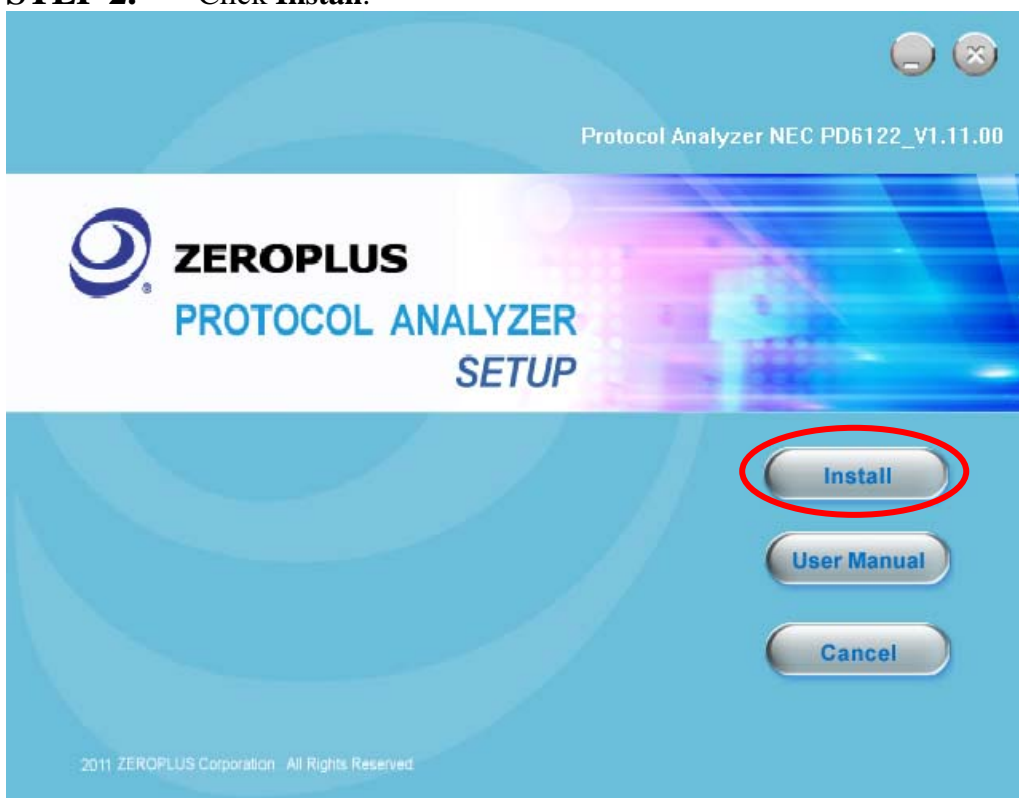


## 2 Software Installation

**STEP 1.** Open the downloaded folder to install **Protocol Analyzer NEC PD6122**.



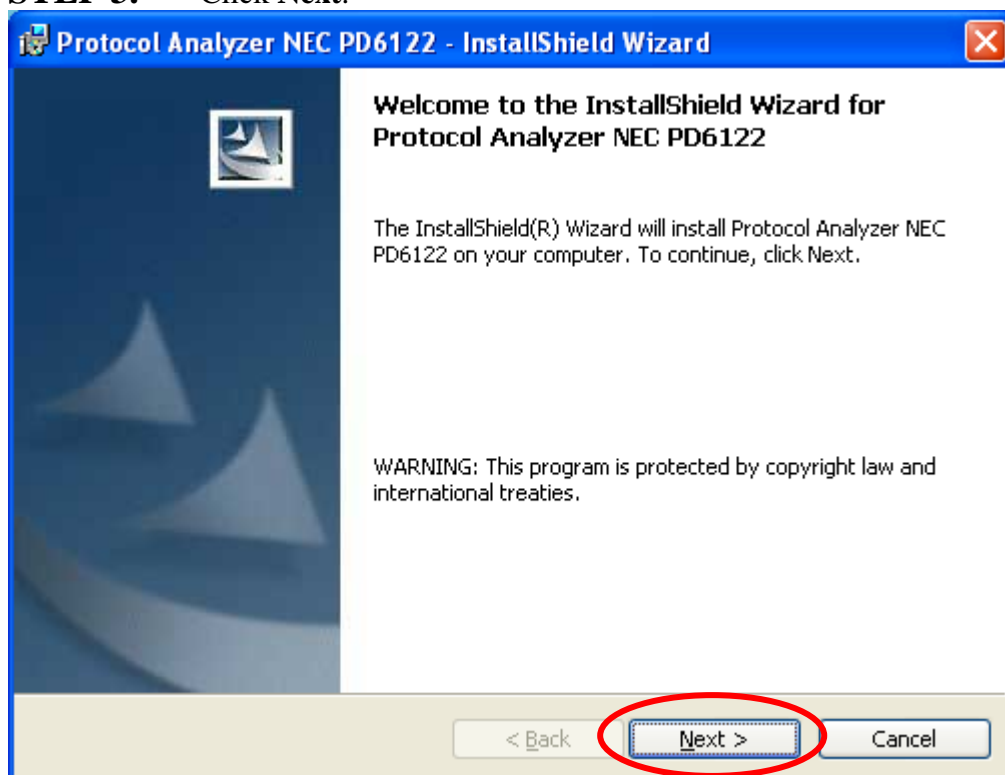
**STEP 2.** Click **Install**.



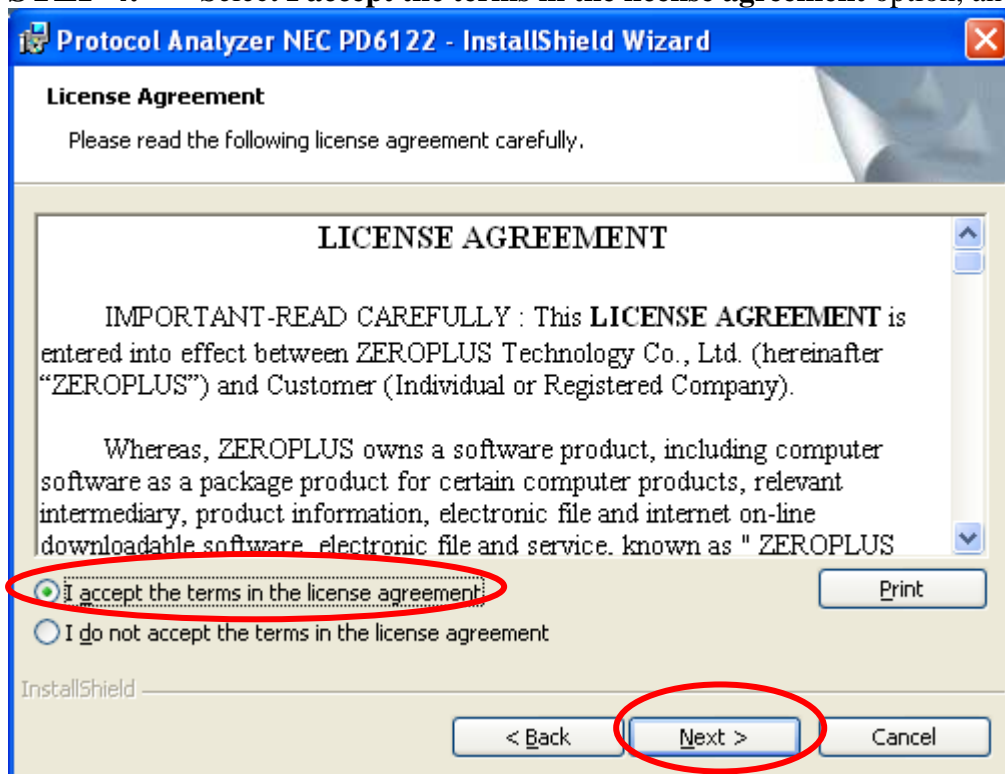




**STEP 3.** Click Next.



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





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

The dialog box is titled "Protocol Analyzer NEC PD6122 - 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:" containing "Microsoft" and "Organization:" containing "User". Further down, under the heading "Install this application for:", there are two radio button options: "Anyone who uses this computer (all users)" which is selected, and "Only for me (Microsoft)". At the bottom, there are three buttons: "< Back", "Next >" (which is circled in red), and "Cancel". The "InstallShield" logo is visible in the bottom left corner.

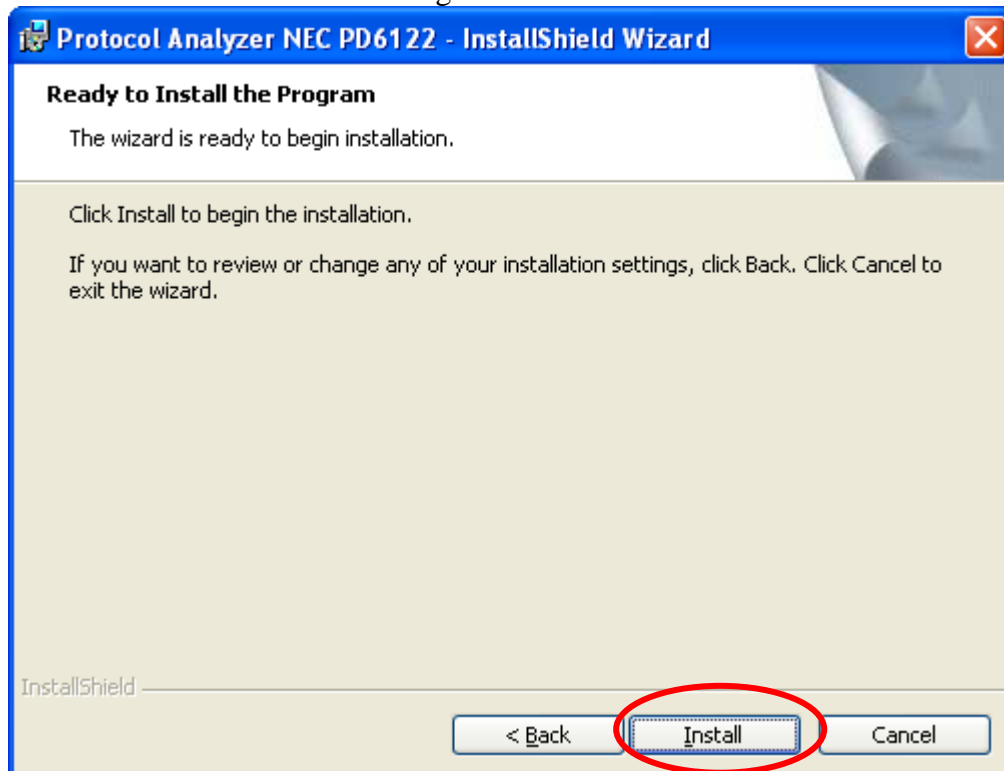
**STEP 6.** Select **Complete** and then click **Next**.

The dialog box is titled "Protocol Analyzer NEC PD6122 - InstallShield Wizard". It has a "Setup Type" section with the instruction "Choose the setup type that best suits your needs." Below this, there is a text prompt "Please select a setup type." and two radio button options: "Complete" which is selected and "Custom". Each option has a small icon and a description. The "Complete" option's description is "All program features will be installed. (Requires the most disk space.)". The "Custom" option's description is "Choose which program features you want installed and where they will be installed. Recommended for advanced users." At the bottom, there are three buttons: "< Back", "Next >" (which is circled in red), and "Cancel". The "InstallShield" logo is visible in the bottom left corner.

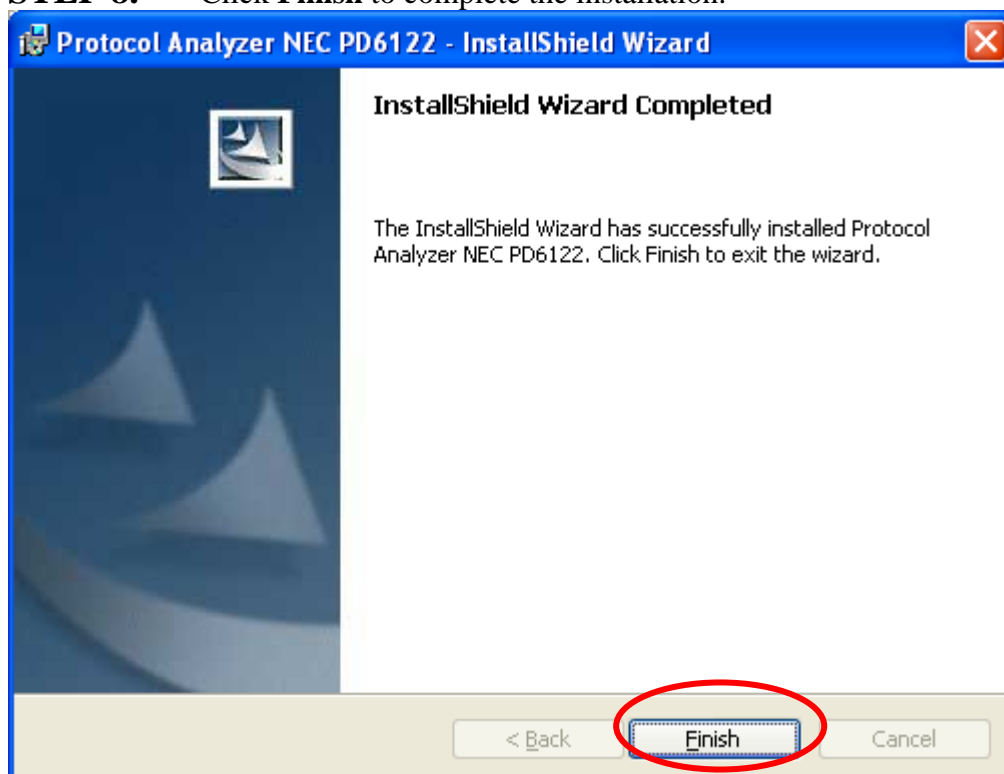




**STEP 7.** Click **Install** to begin the installation.



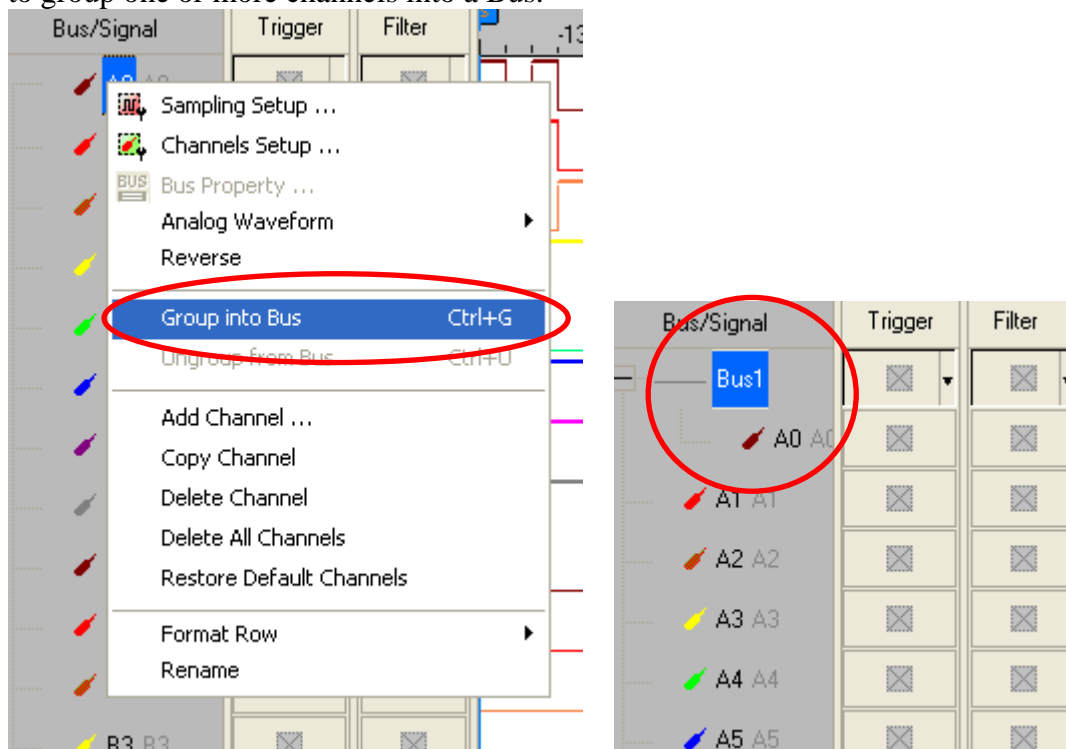
**STEP 8.** Click **Finish** to complete the installation.



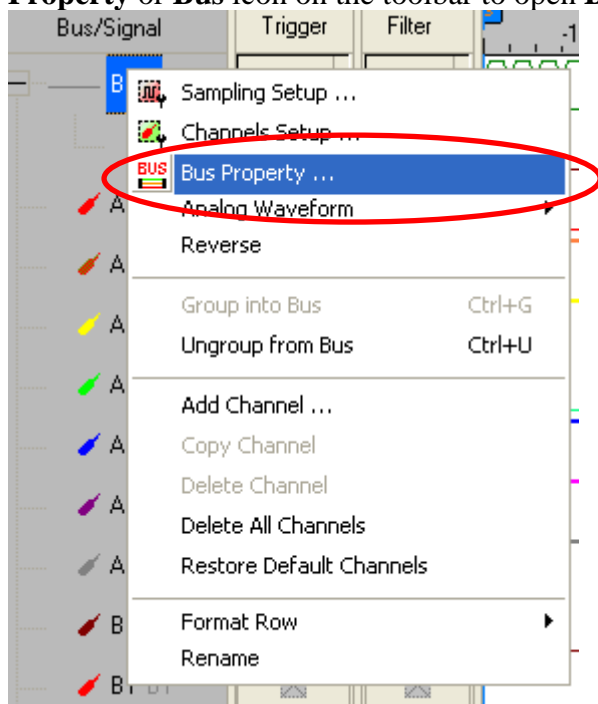


### 3 Software Register

**STEP 1.** Open the Logic Analyzer and group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse. **NEC PD6122** needs one channel to decode signals, so it is necessary to group one or more channels into a Bus.

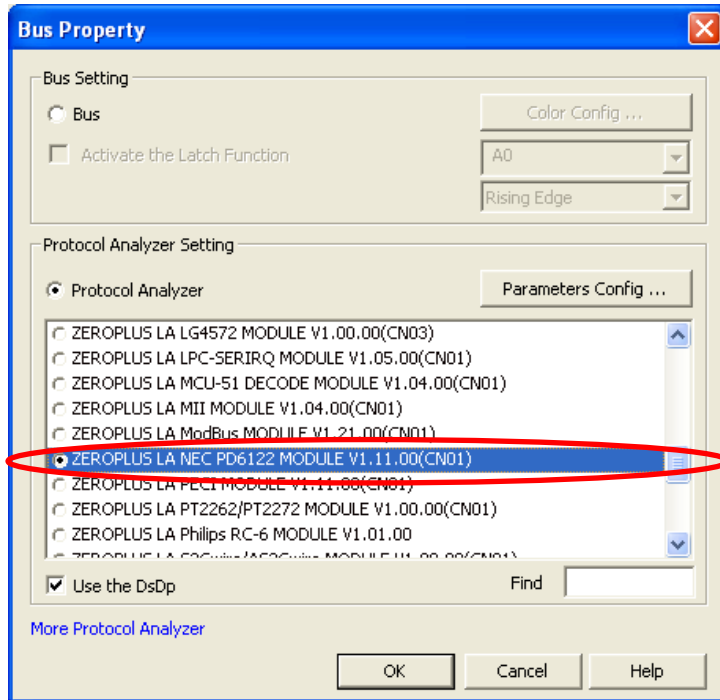


**STEP 2.** Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

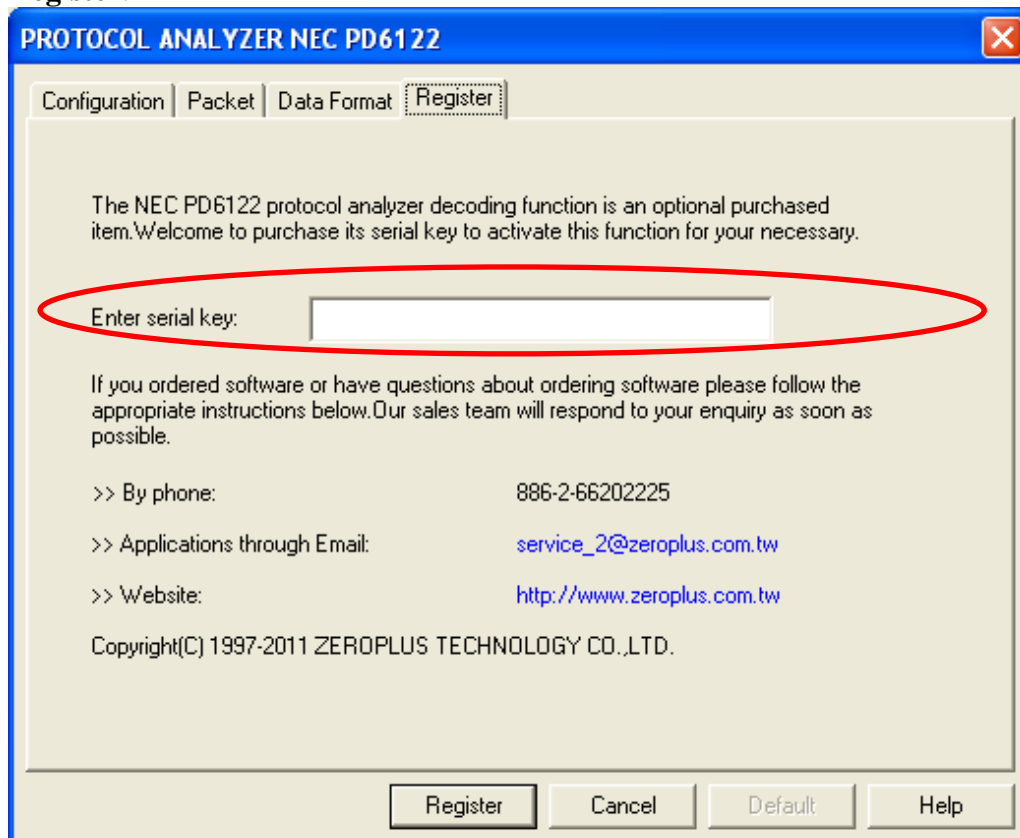




**STEP 3.** For Protocol Analyzer NEC PD6122 Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA NEC PD6122 MODULE V1.11.00(CN01)**. Next click **Parameters Configuration** to open the **PROTOCOL ANALYZER NEC PD6122** dialog box.

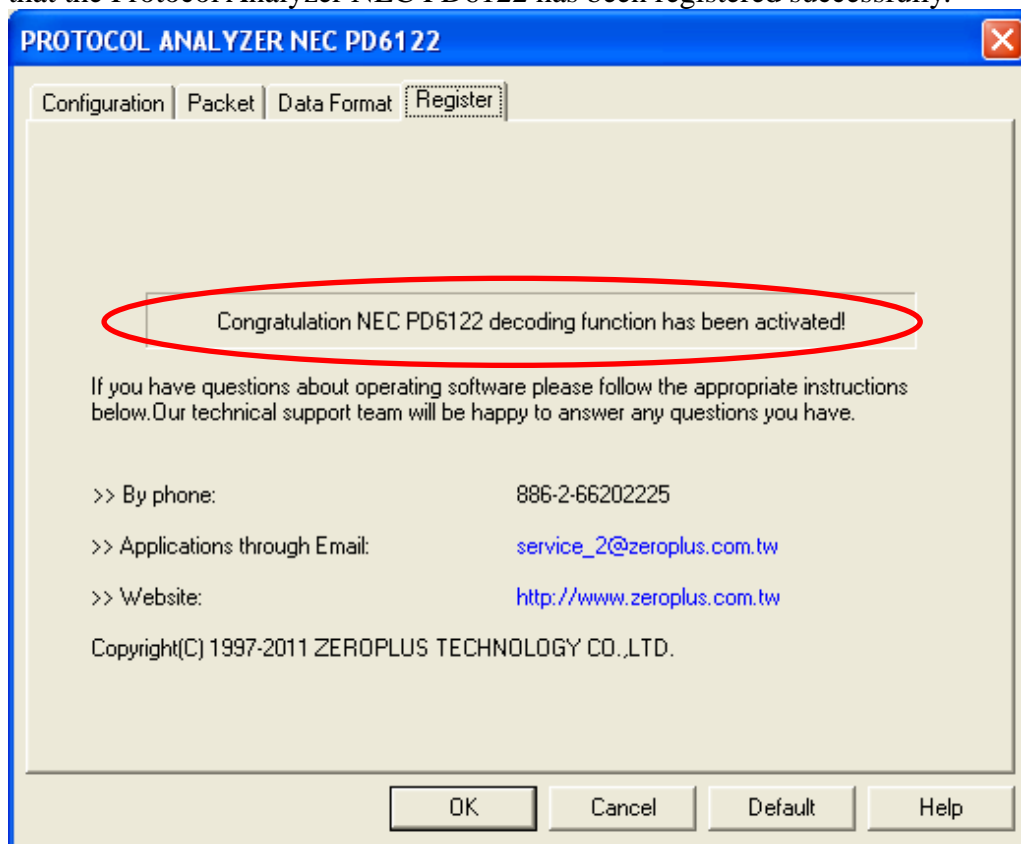


**STEP 4.** Press the Register tab to enter the serial key of the **NEC PD6122**. Then, press **Register**.





**STEP 5.** After pressing the Register button, the following dialog box will appear; it denotes that the Protocol Analyzer NEC PD6122 has been registered successfully.

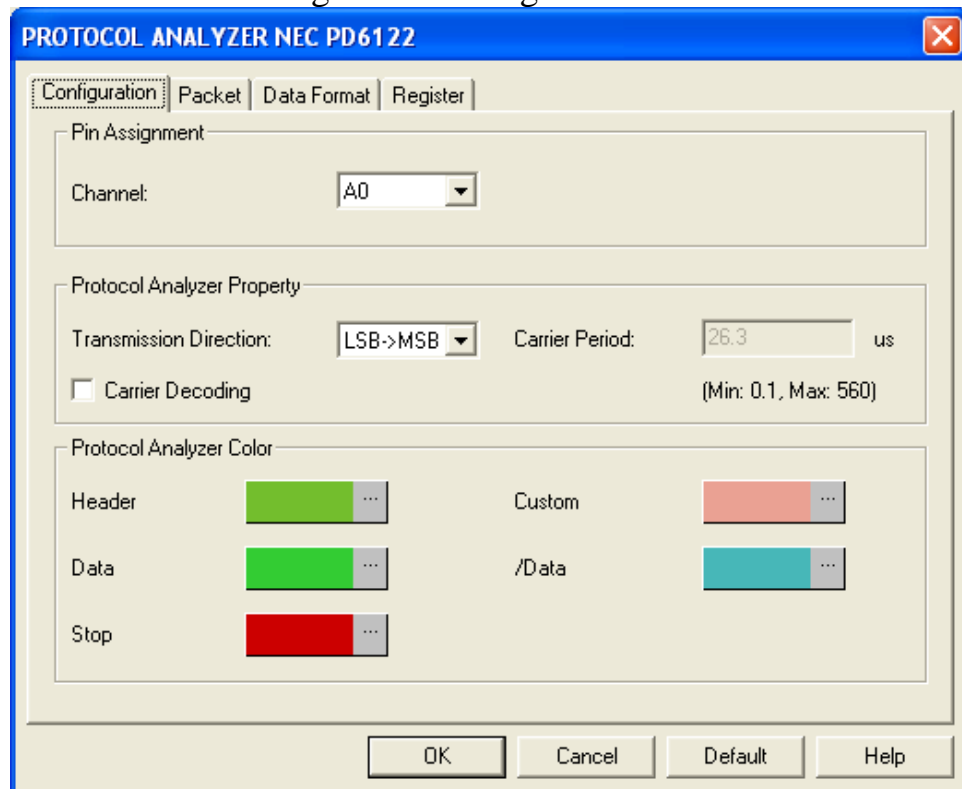




## 4 User Interface

In the configuration dialog box, please refer to the below images to select options of setting **NEC PD6122 Module**.

NEC PD6122 Configuration dialog box



### Pin Assignment:

**Channel:** The NEC PD6122 only needs one channel to decode the signals, and the default is A0.

**Transmission Direction:** Set the Direction to LSB->MSB or MSB->LSB.

**Carrier Period:** Set the Carrier Period in the range from 0.1 to 560us when the Carrier Decoding is enabled.

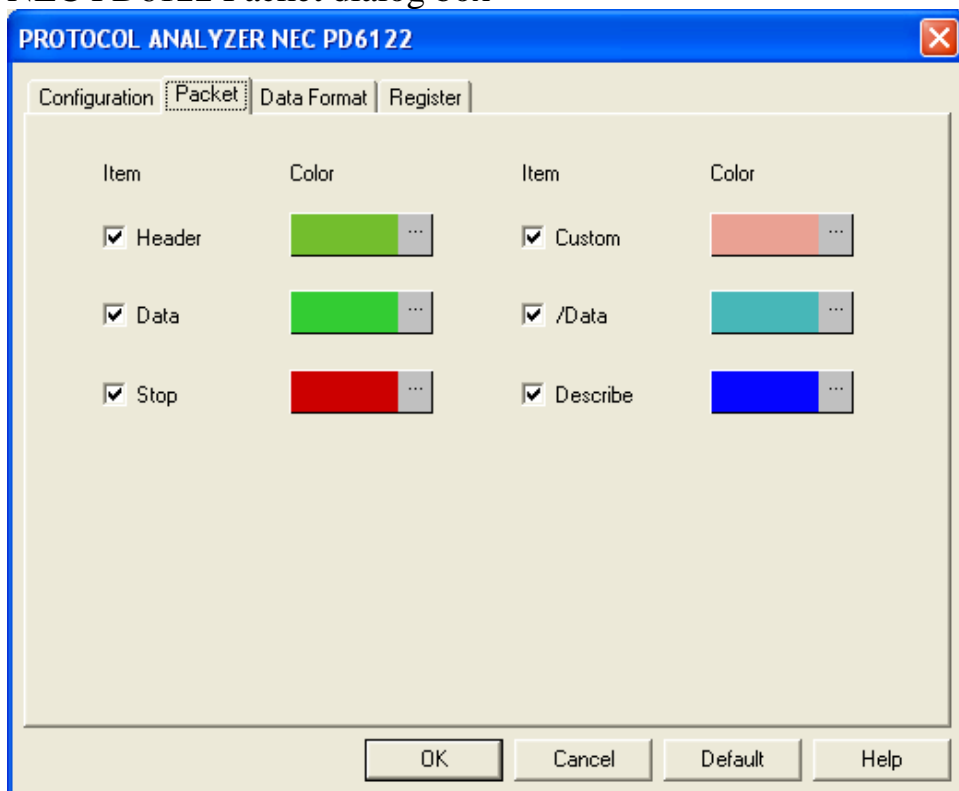
**Carrier Decoding:** Set the Decoding Mode to Carrier Decoding when the Carrier Decoding is enabled.

### Protocol Analyzer Color:

Users can vary the colors of the items.

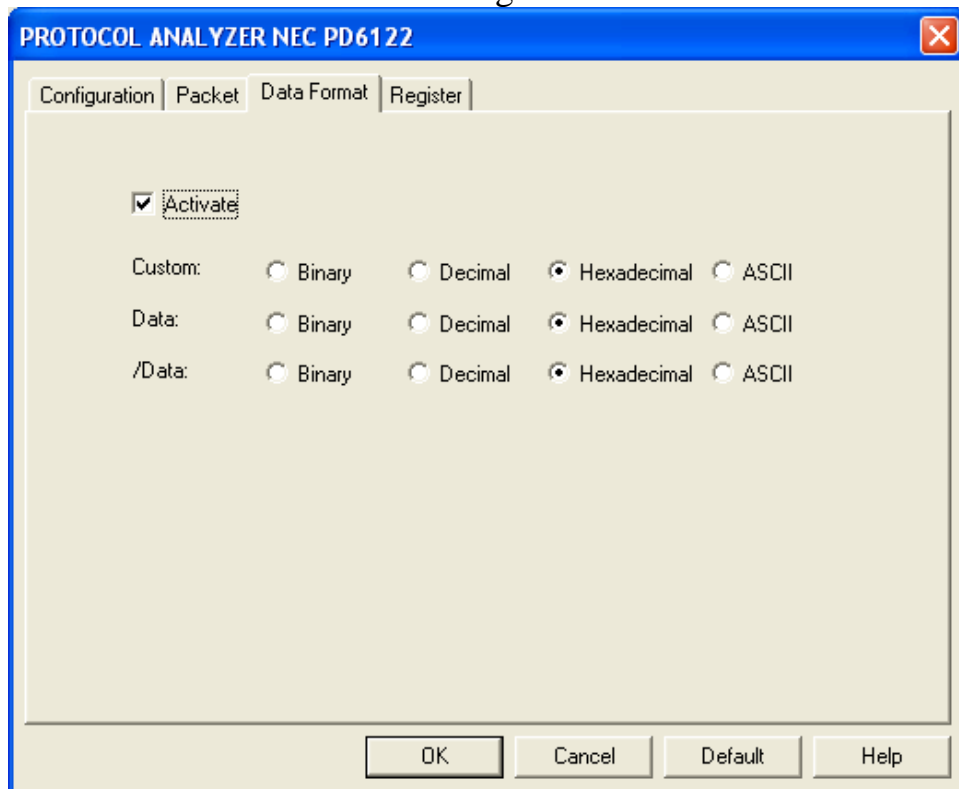


## NEC PD6122 Packet dialog box



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

## NEC PD6122 Data Format dialog box

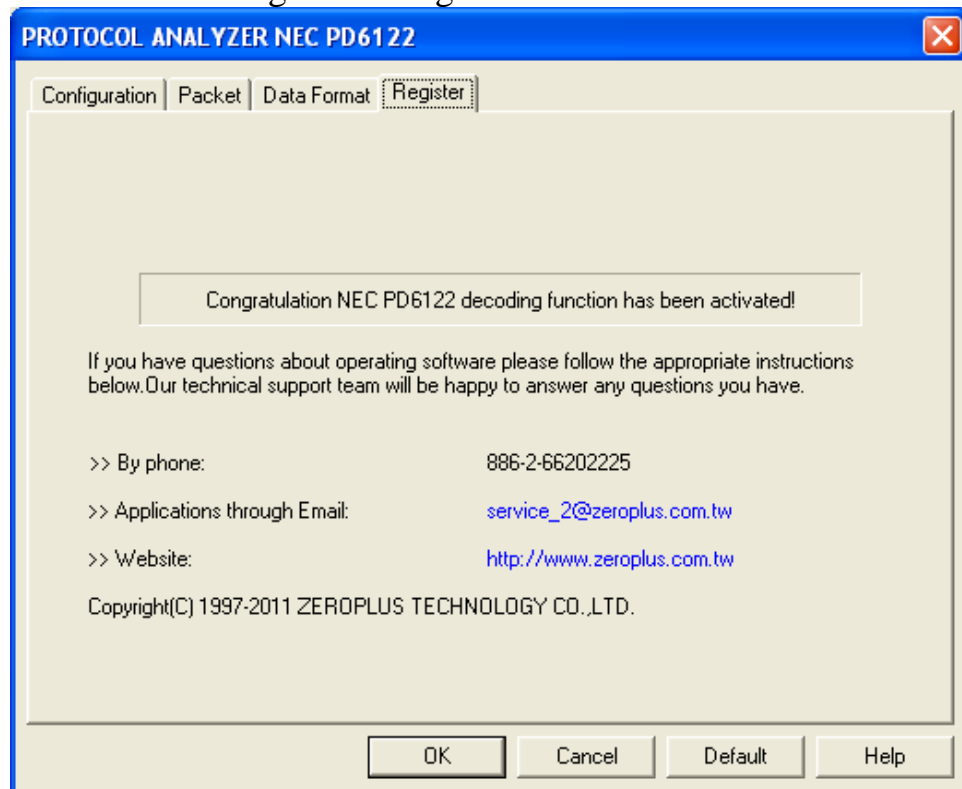


Users can set the Data Format of the Custom, Data and /Data as their requirements. When selecting the option, Activate, the data format is decided by the settings in the Protocol Analyzer;



when not selecting the option, Activate, the data format is decided by the settings in the main program.

### NEC PD6122 Register dialog box



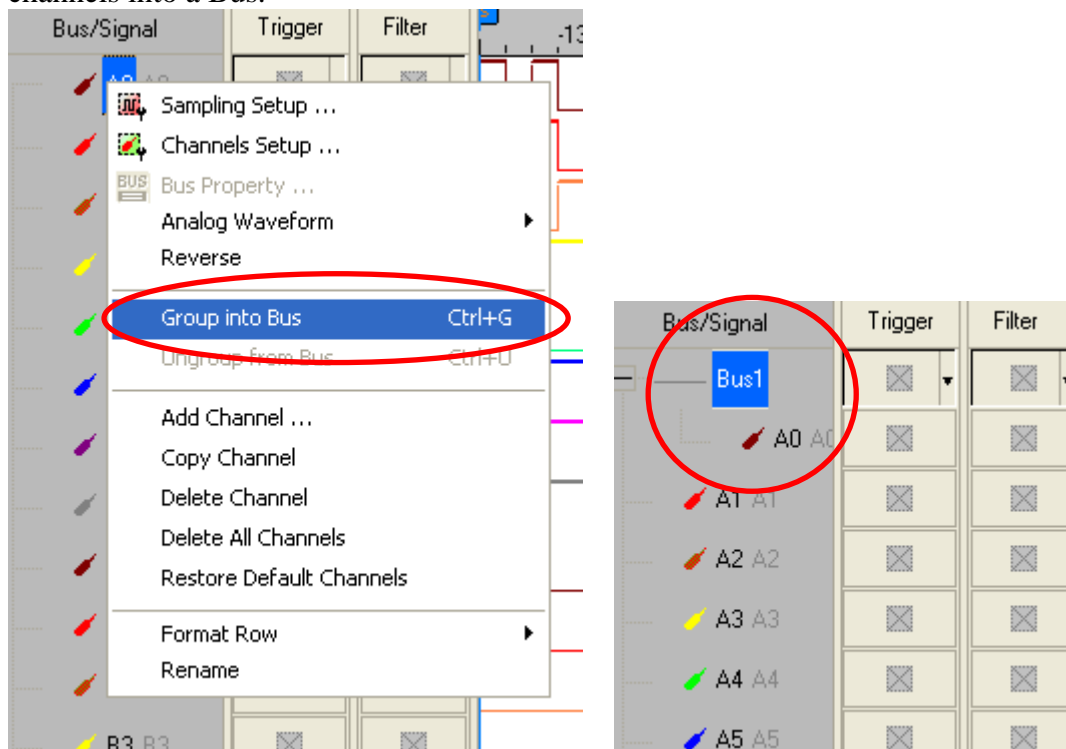
There is written ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.



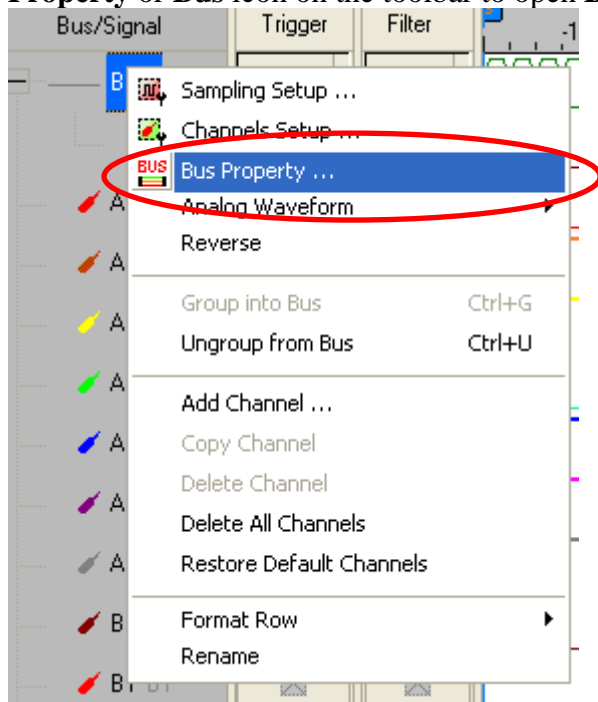


## 5 Operating Instructions

**STEP 1.** Group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse. NEC PD6122 needs one channel to decode signals, so it is necessary to group one or more channels into a Bus.

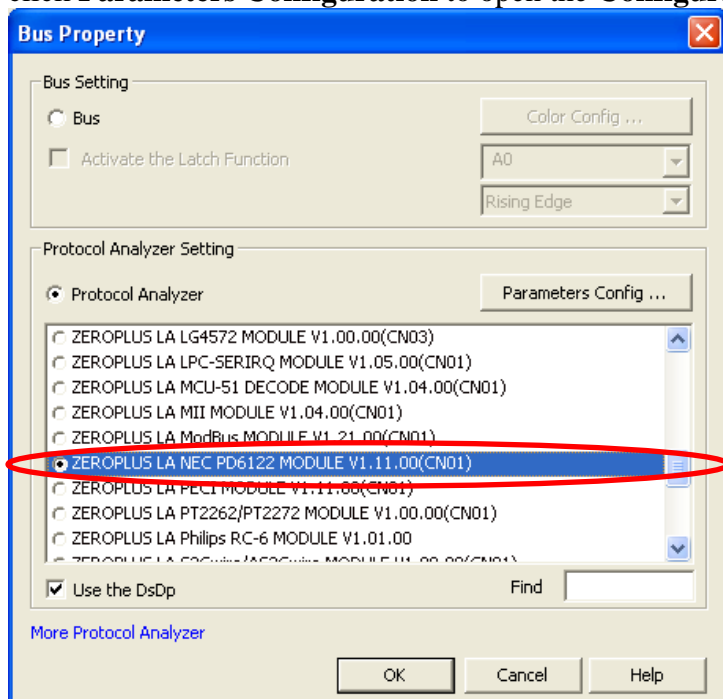


**STEP 2.** Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

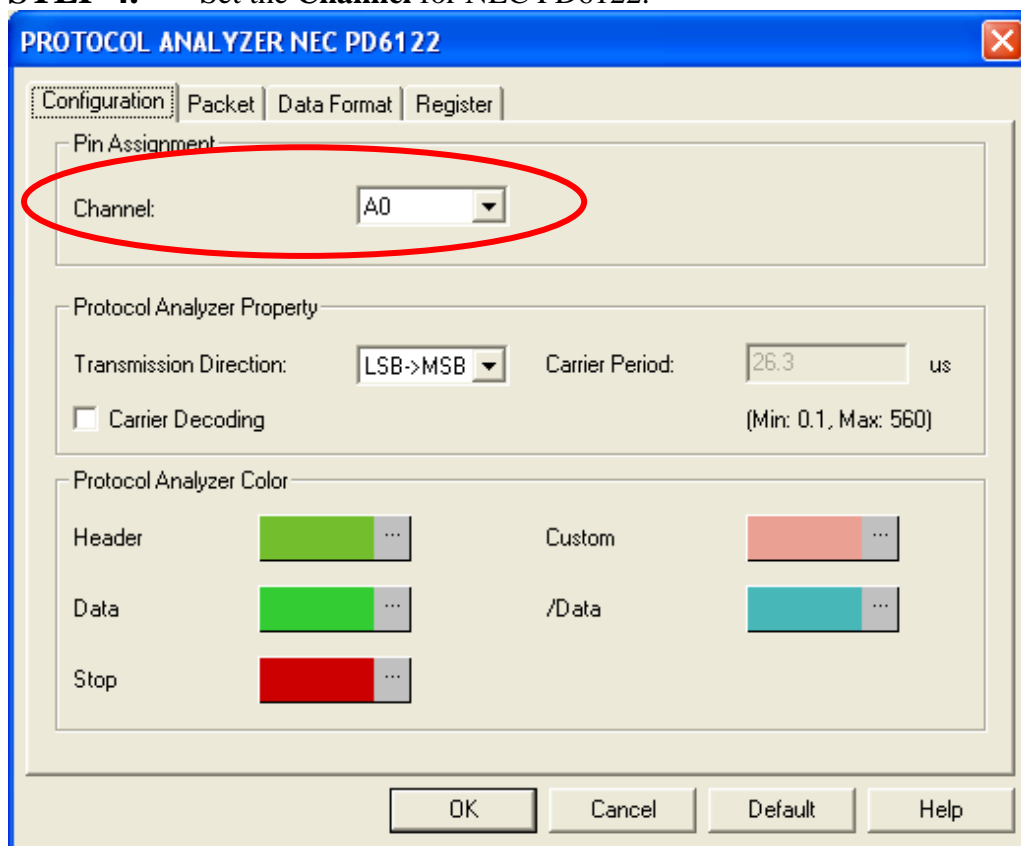




**STEP 3.** For Protocol Analyzer NEC PD6122 Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA NEC PD6122 MODULE V1.11.00(CN01)**. Next click **Parameters Configuration** to open the **Configuration** dialog box.

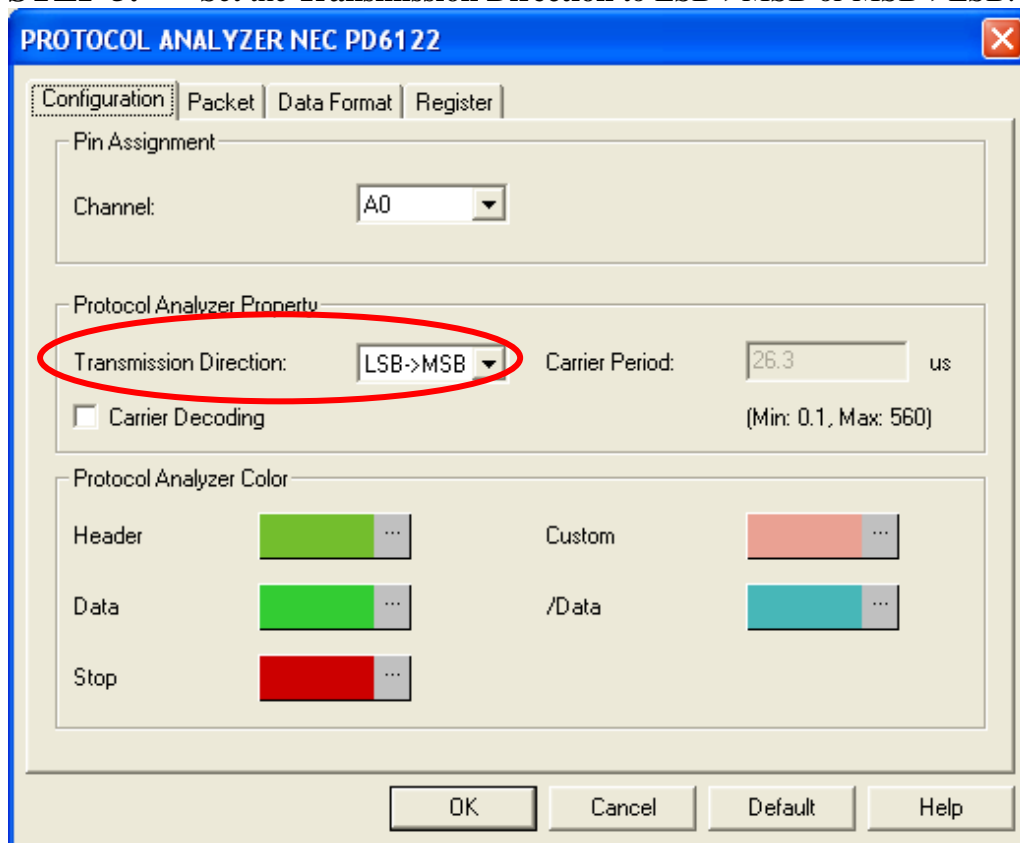


**STEP 4.** Set the **Channel** for NEC PD6122.

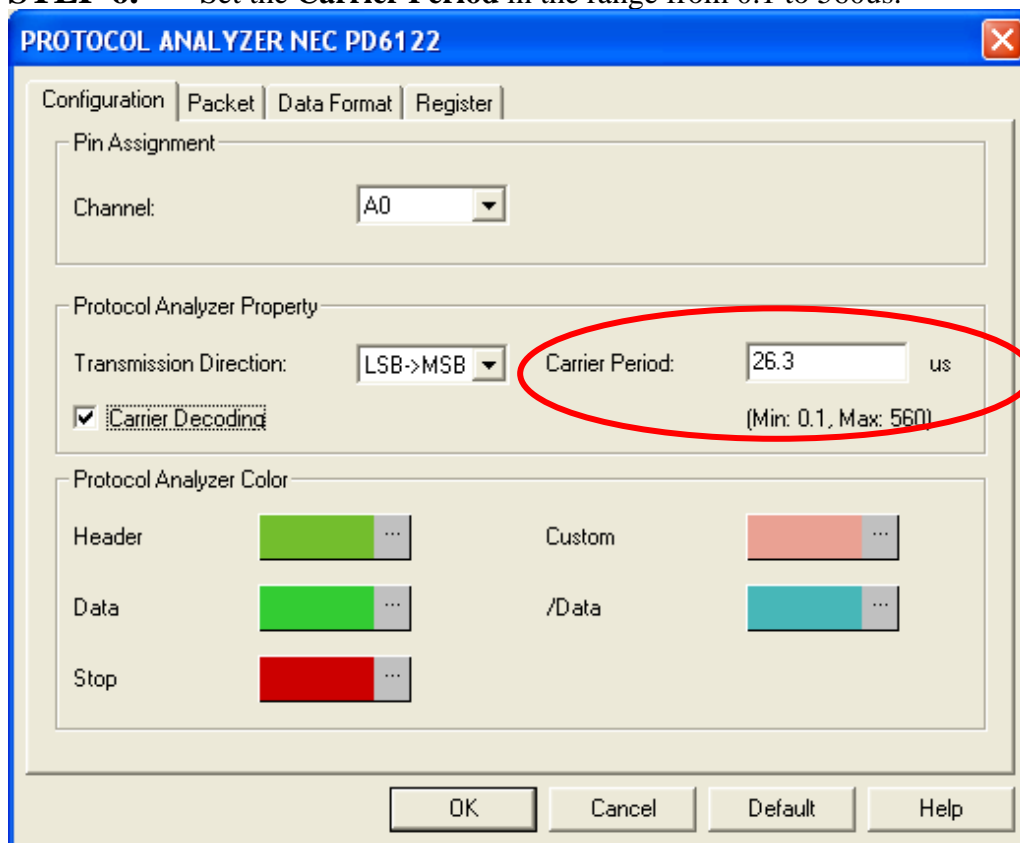




**STEP 5.** Set the **Transmission Direction** to LSB->MSB or MSB->LSB.

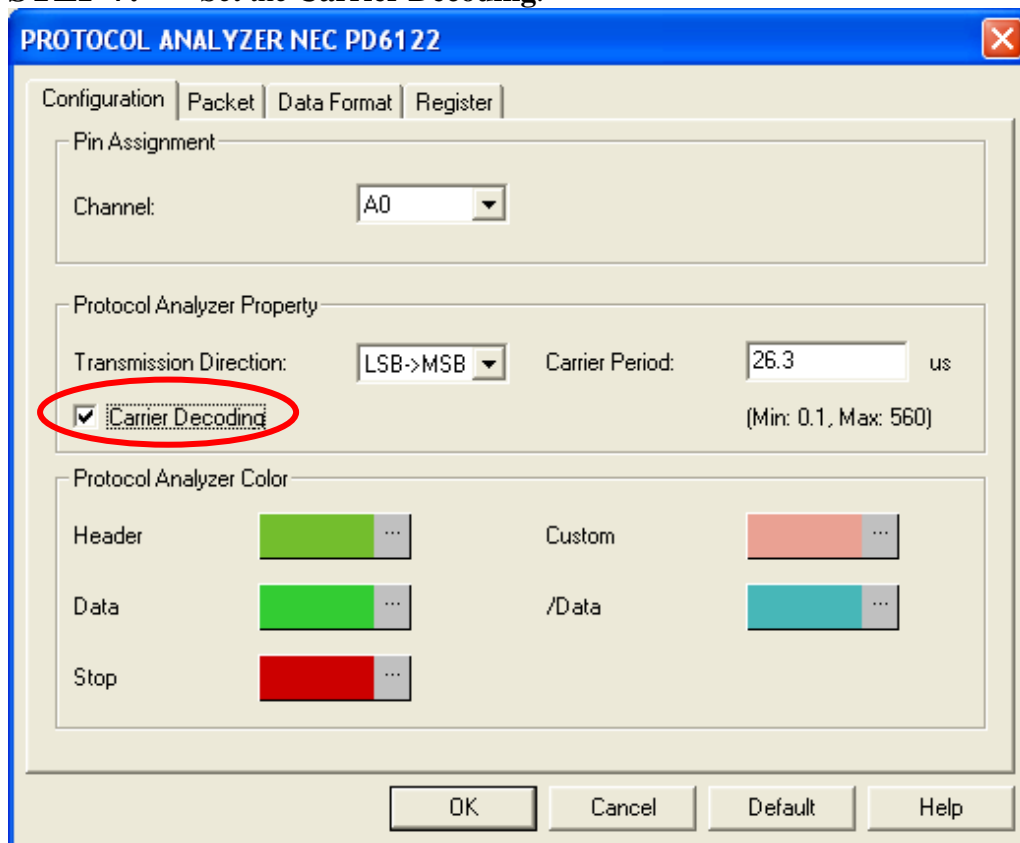


**STEP 6.** Set the **Carrier Period** in the range from 0.1 to 560us.

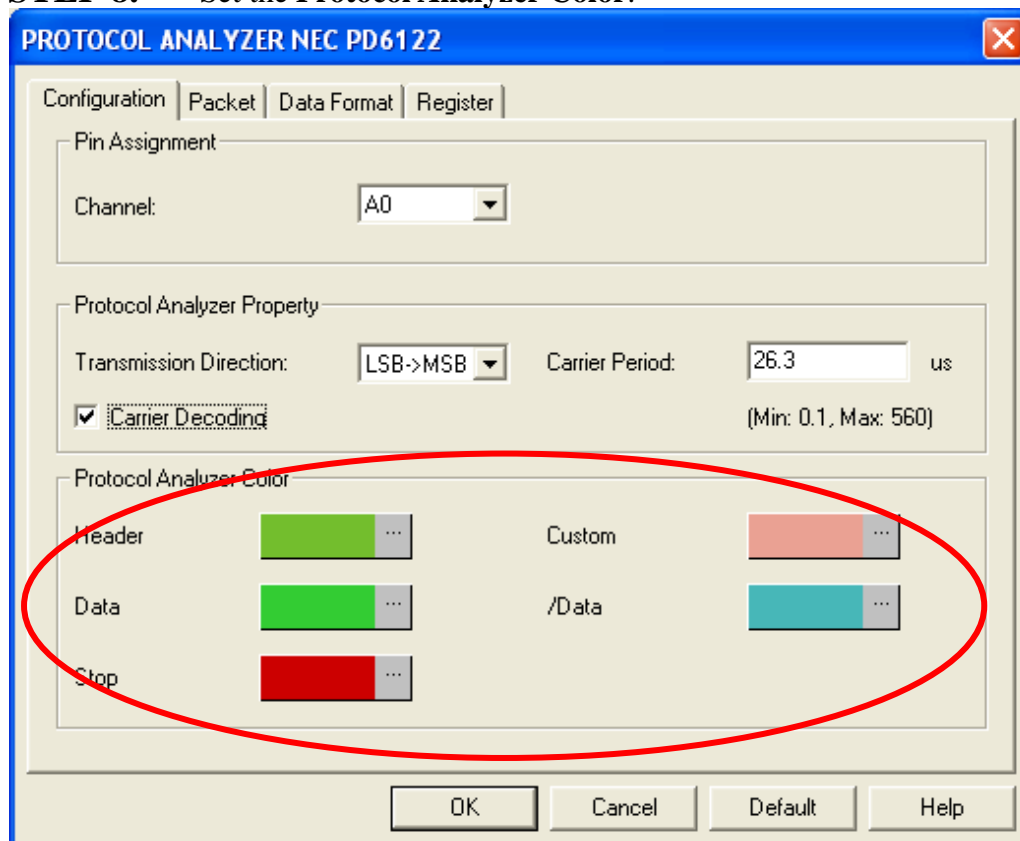




### STEP 7. Set the Carrier Decoding.



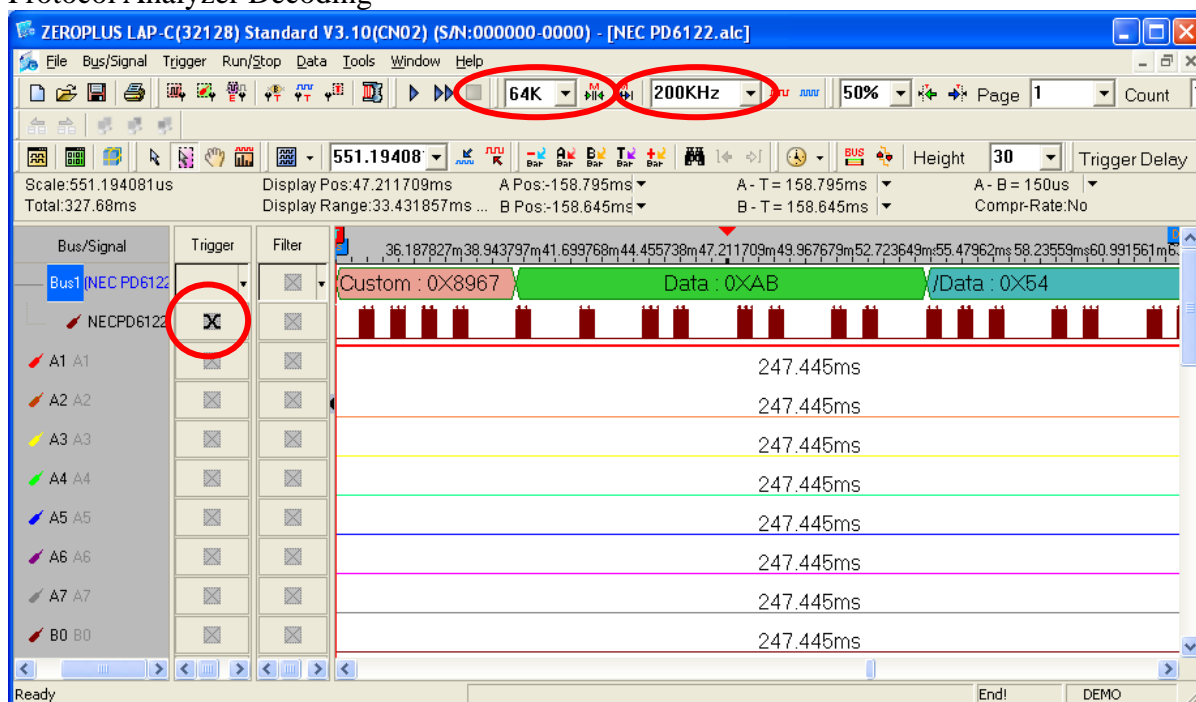
### STEP 8. Set the Protocol Analyzer Color.





**STEP 9.** 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 64K; the Sampling frequency is 200KHz (the sampling frequency should be more than eight times higher than the signal to be tested).

### Protocol Analyzer Decoding



### Packet List

