



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

SPECIFICATION

MODEL: CAN 2.0B Specification

PART NO: _____

VERSION: V1.32

Approver		Check	Design
GM	PM		

Customer Confirm

*Please fax the file to ZeroPlus Technology after signing.

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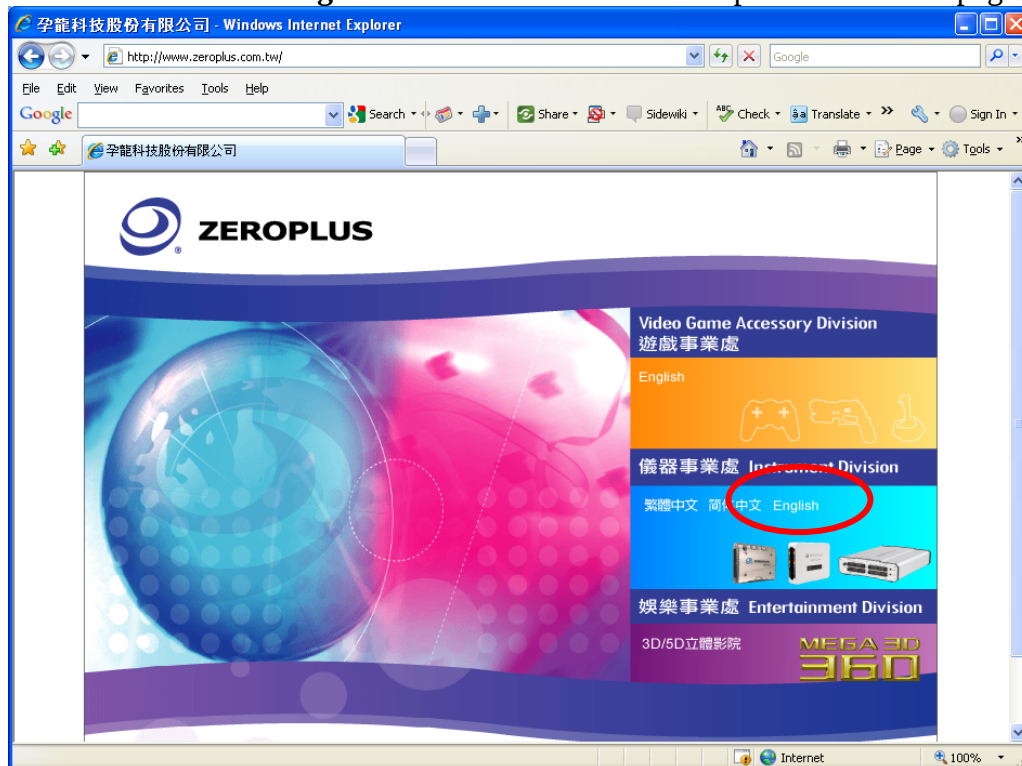
1 Software Download

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.

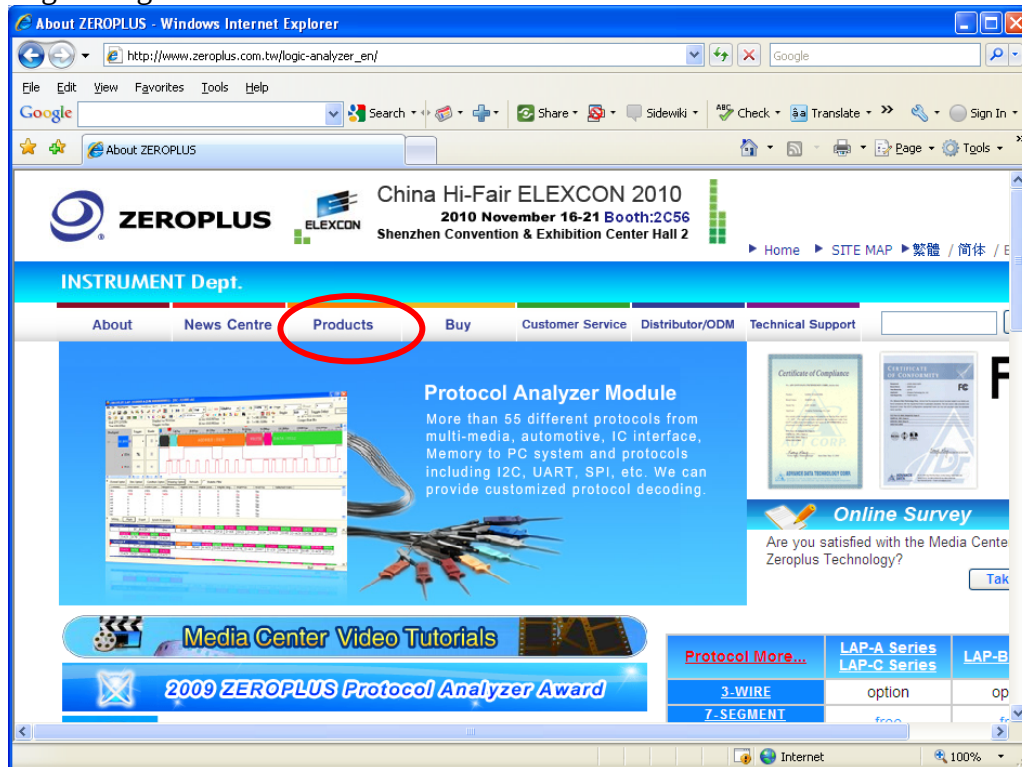
STEP 1. Visit the website of ZeroPlus: <http://www.zeroplus.com.tw>.

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

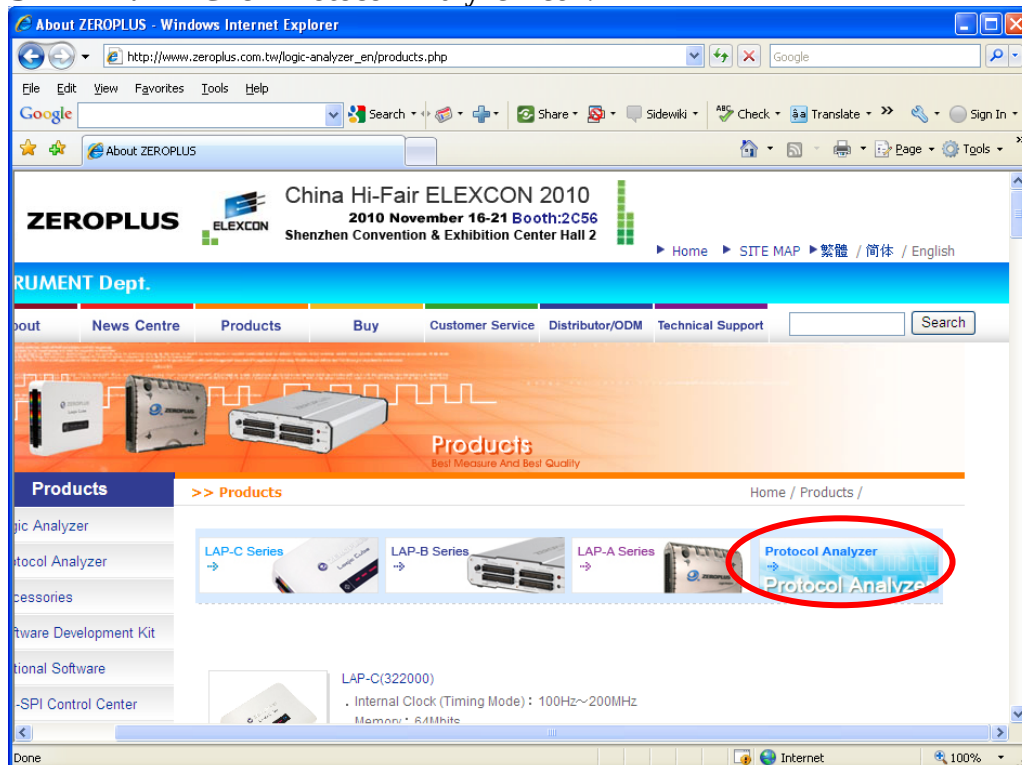




STEP 3. Click **Products** menu or select **Protocol Analyzer** item from its pull-down menu to go straight to STEP 5.

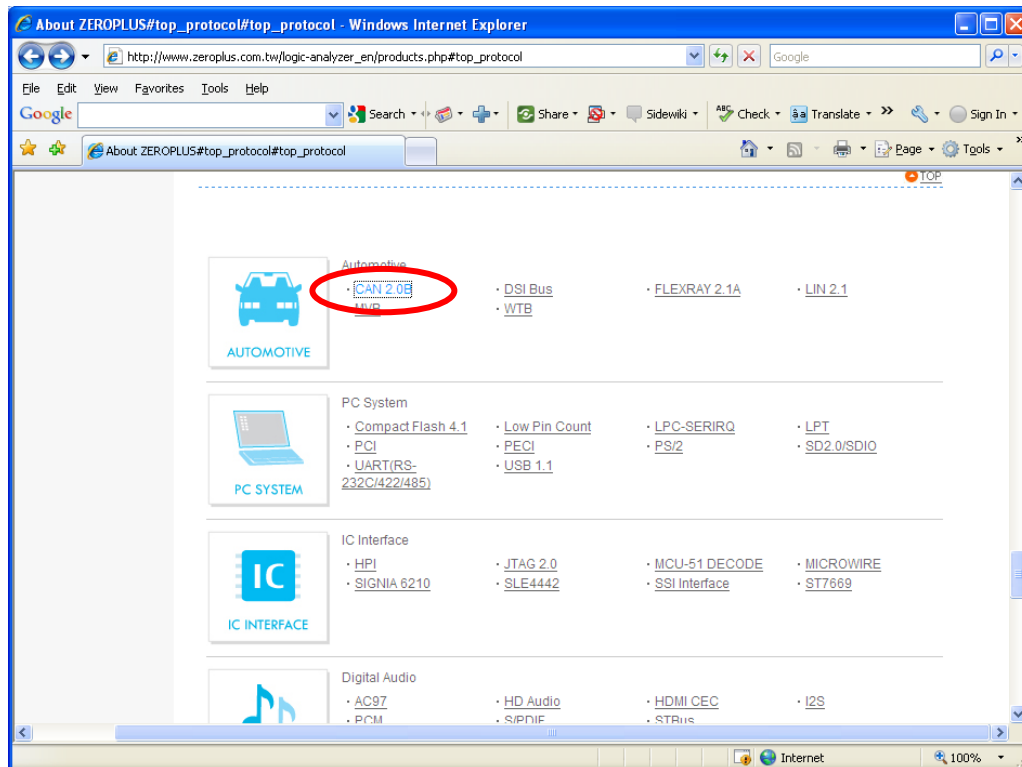


STEP 4. Click **Protocol Analyzer** icon.

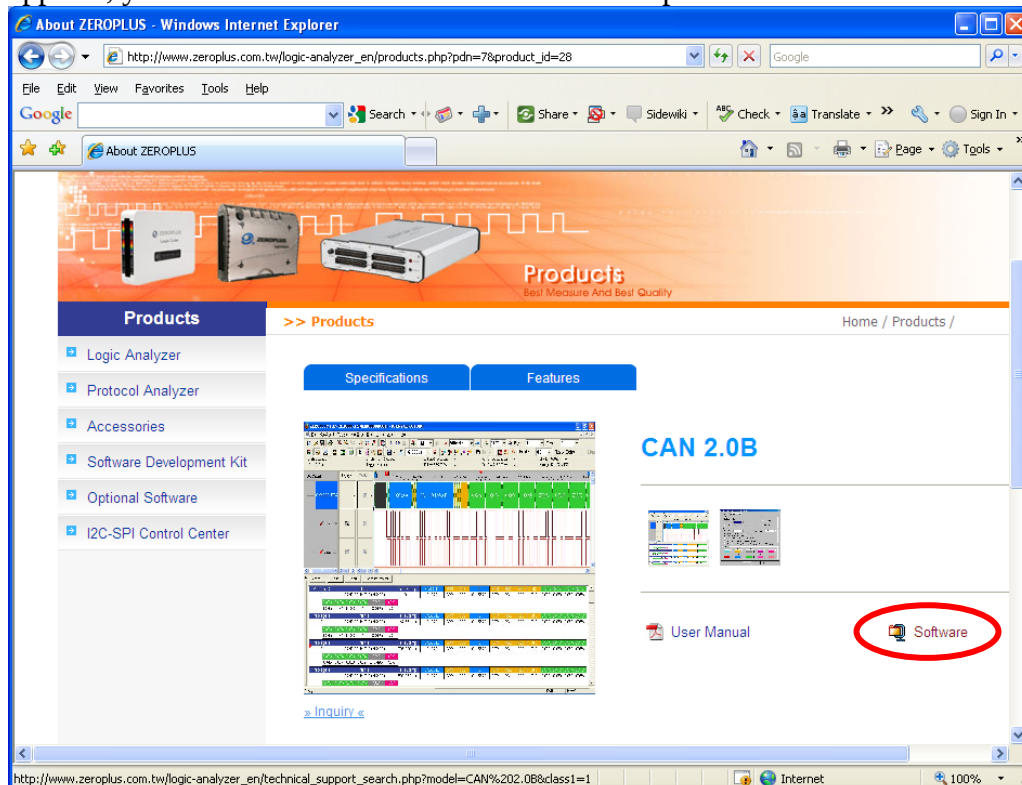




STEP 5. Click CAN 2.0B in the Automotive.



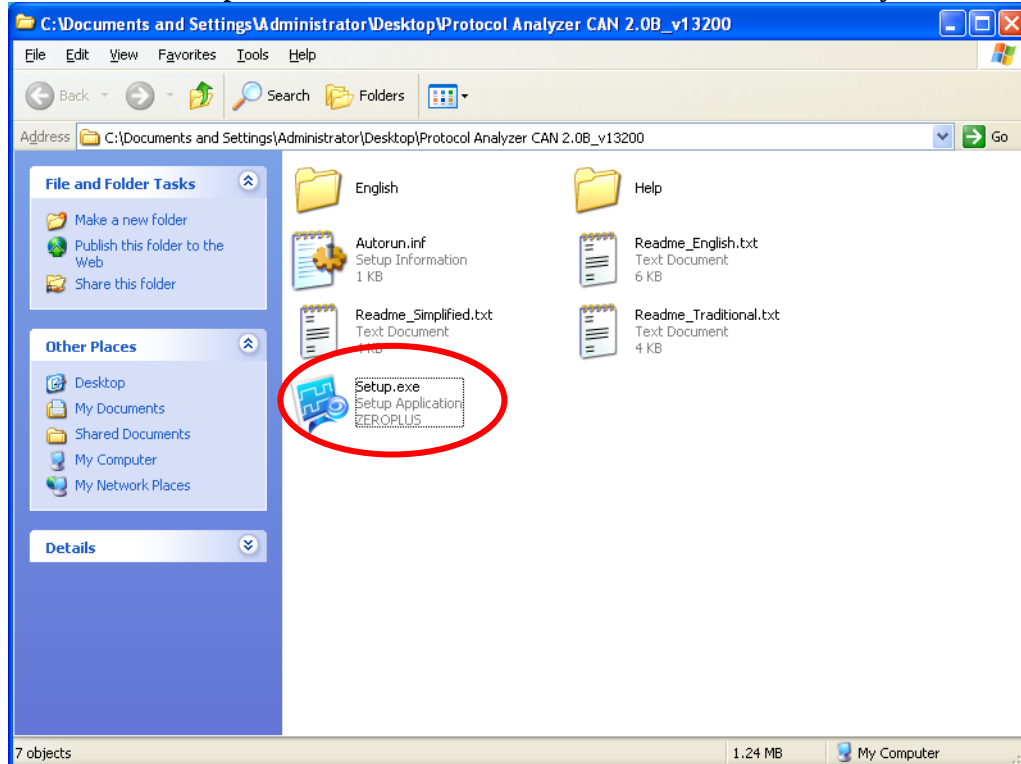
STEP 6. Click **Software** in the Products page. When the File Download dialog box appears, you can click **Save** button to save the compressed folder.



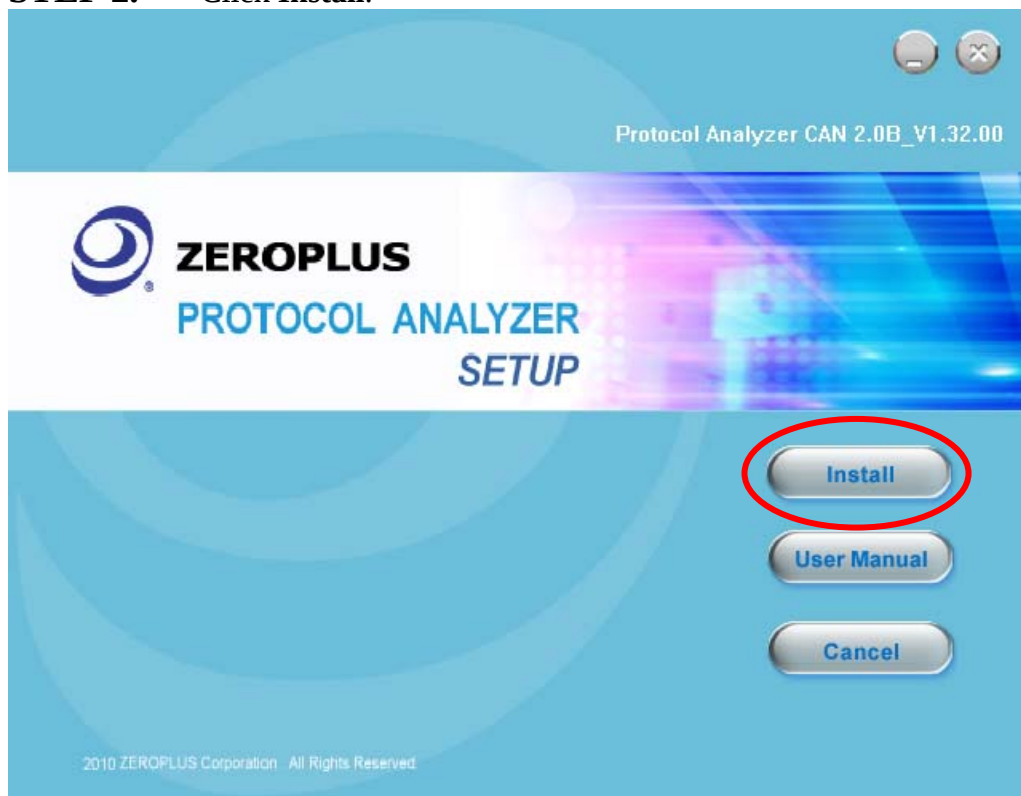


2 Software Installation

STEP 1. Open the downloaded folder to install **Protocol Analyzer CAN 2.0B**.

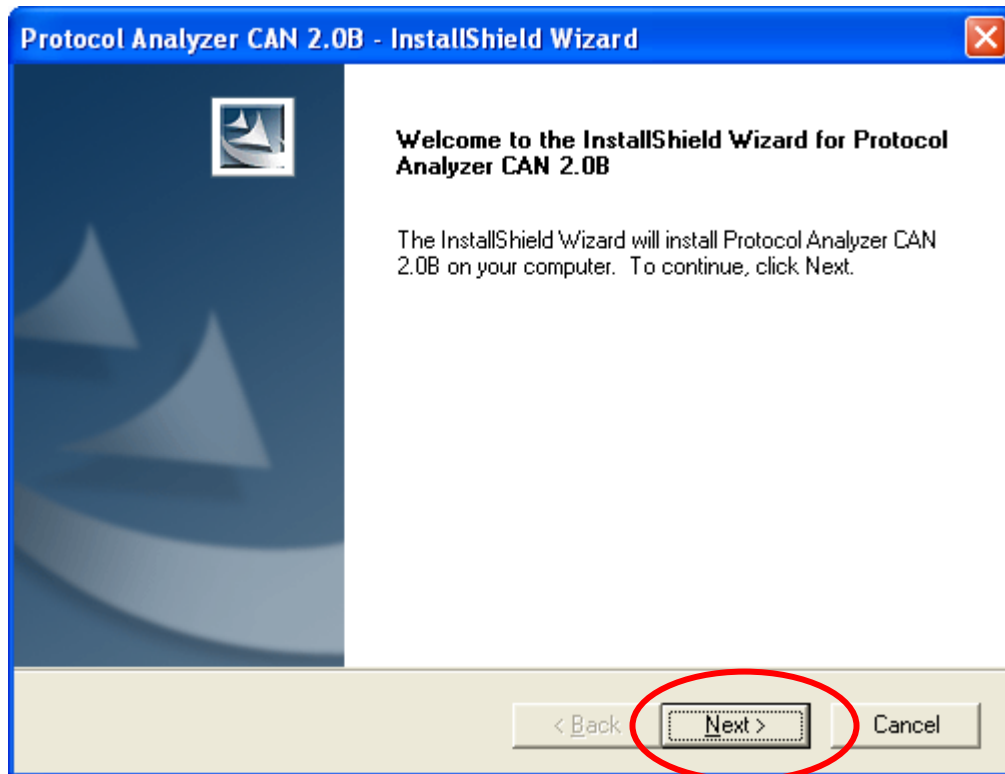


STEP 2. Click **Install**.

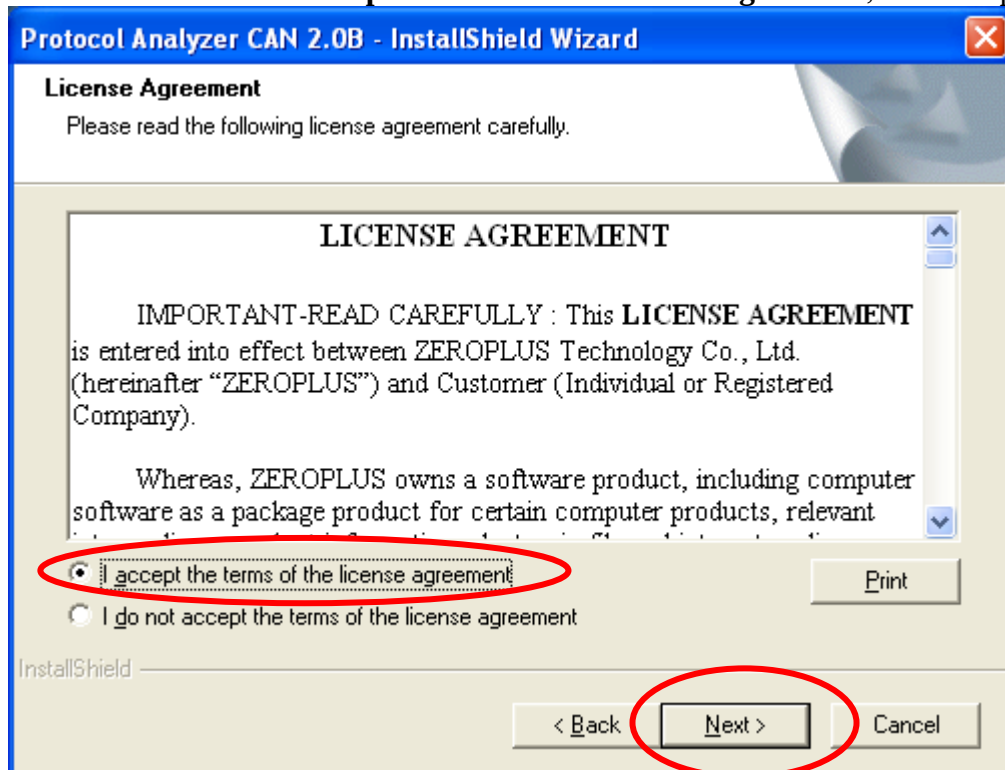




STEP 3. Click Next.



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**.

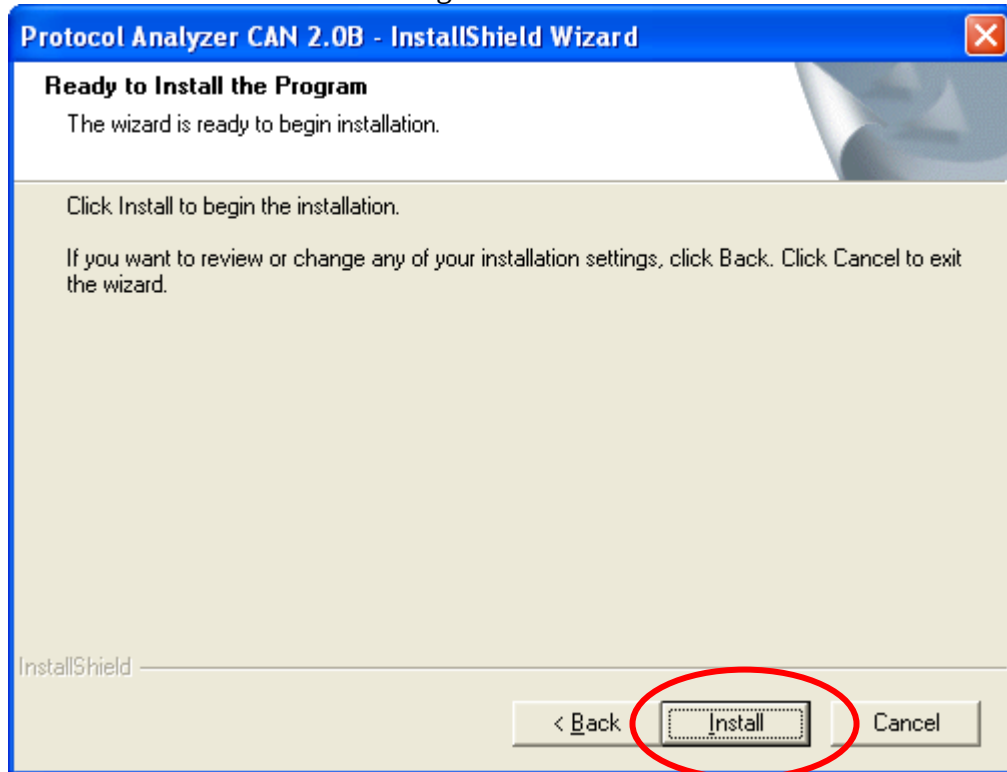
The dialog box is titled "Protocol Analyzer CAN 2.0B - InstallShield Wizard". It has a blue title bar with a close button. The main area is titled "Customer Information" and contains the text "Please enter your information." Below this are two text input fields: "User Name:" with "Microsoft" entered, and "Company Name:" with "User" entered. Below these fields are two radio button options: "Anyone who uses this computer (all users)" (selected) and "Only for me (Microsoft)". At the bottom, there is a progress bar labeled "InstallShield" and three buttons: "< Back", "Next >" (circled in red), and "Cancel".

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

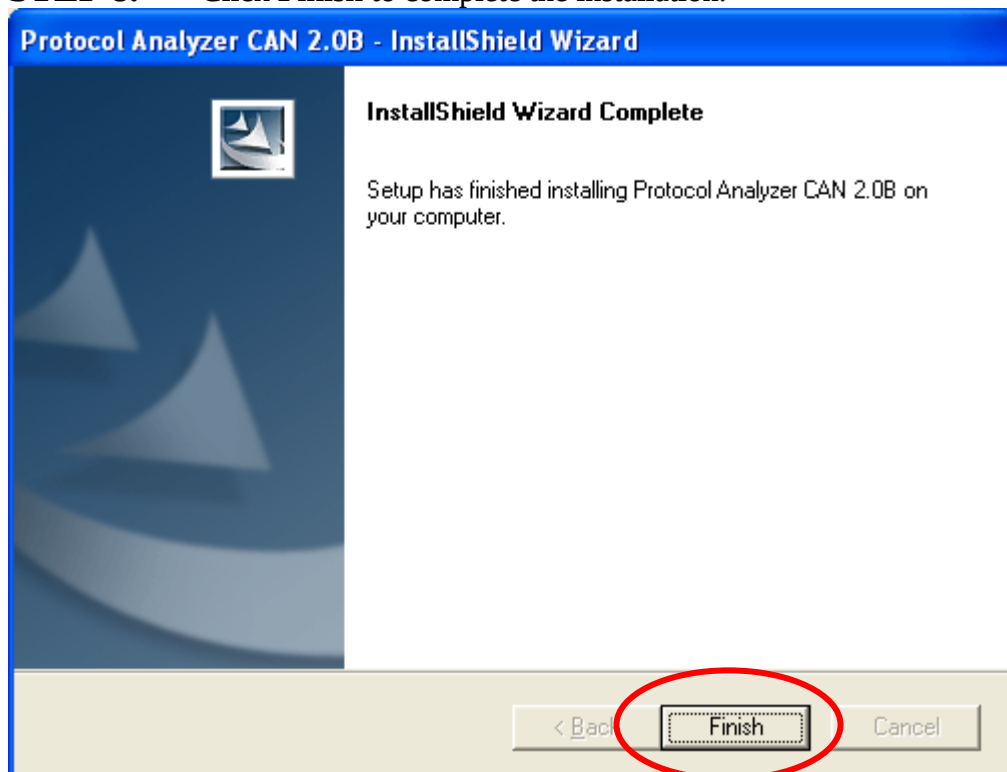
The dialog box is titled "Protocol Analyzer CAN 2.0B - InstallShield Wizard". It has a blue title bar with a close button. The main area is titled "Setup Type" and contains the text "Select the setup type to install." Below this is the text "Please select a setup type." There are two radio button options: "Complete" (selected) and "Custom". Each option has a small icon and a description. The "Complete" option description is "All program features will be installed. (Requires the most disk space.)". The "Custom" option description is "Select which program features you want installed. Recommended for advanced users." At the bottom, there is a progress bar labeled "InstallShield" and three buttons: "< Back", "Next >" (circled in red), and "Cancel".



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



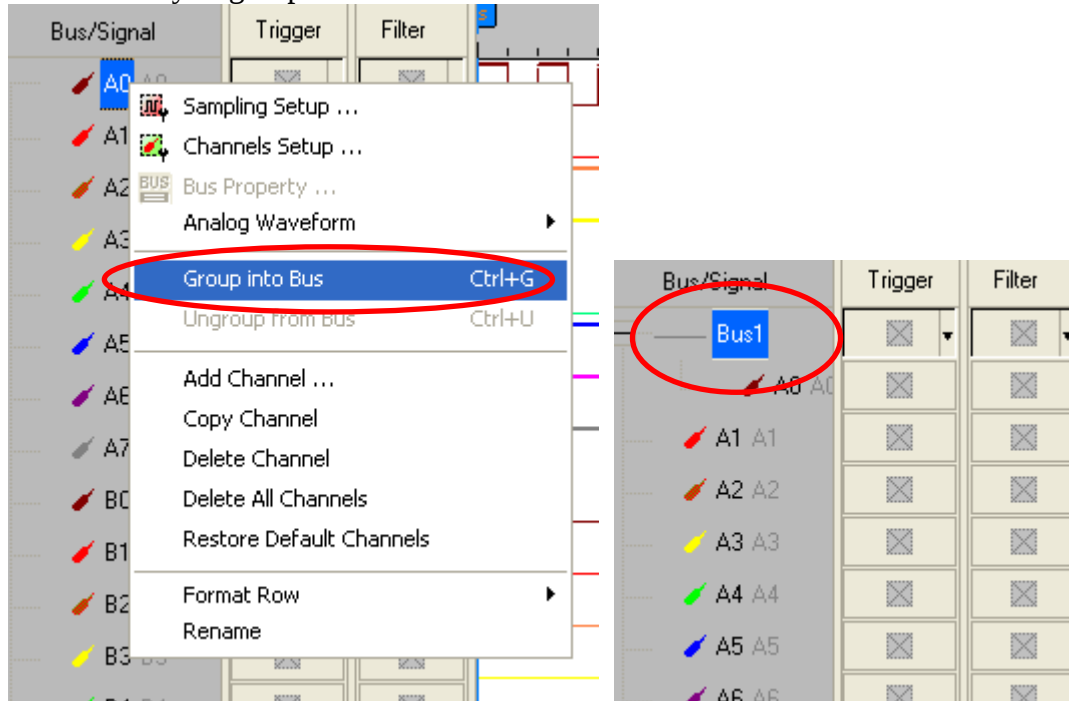
STEP 8. Click **Finish** to complete the installation.



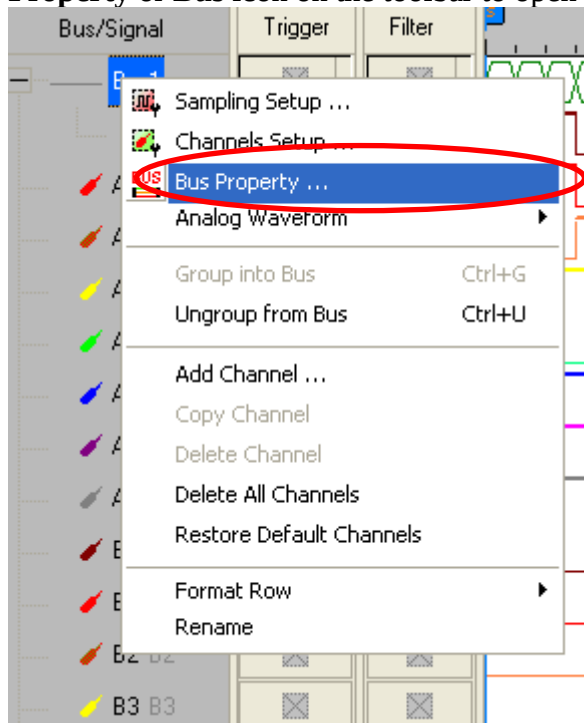


3 Software Register

STEP 1. Open the Logic Analyzer and group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse. **CAN 2.0B** only needs one channel to decode signals, so it is necessary to group one or more channels into a Bus.

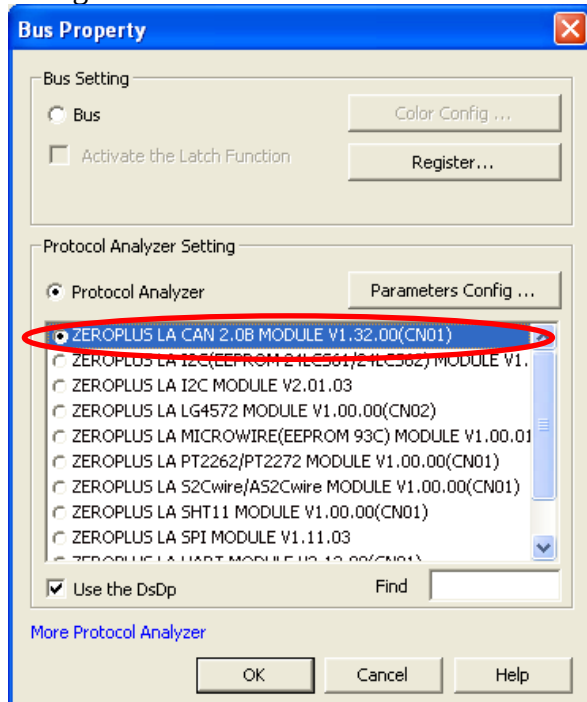


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

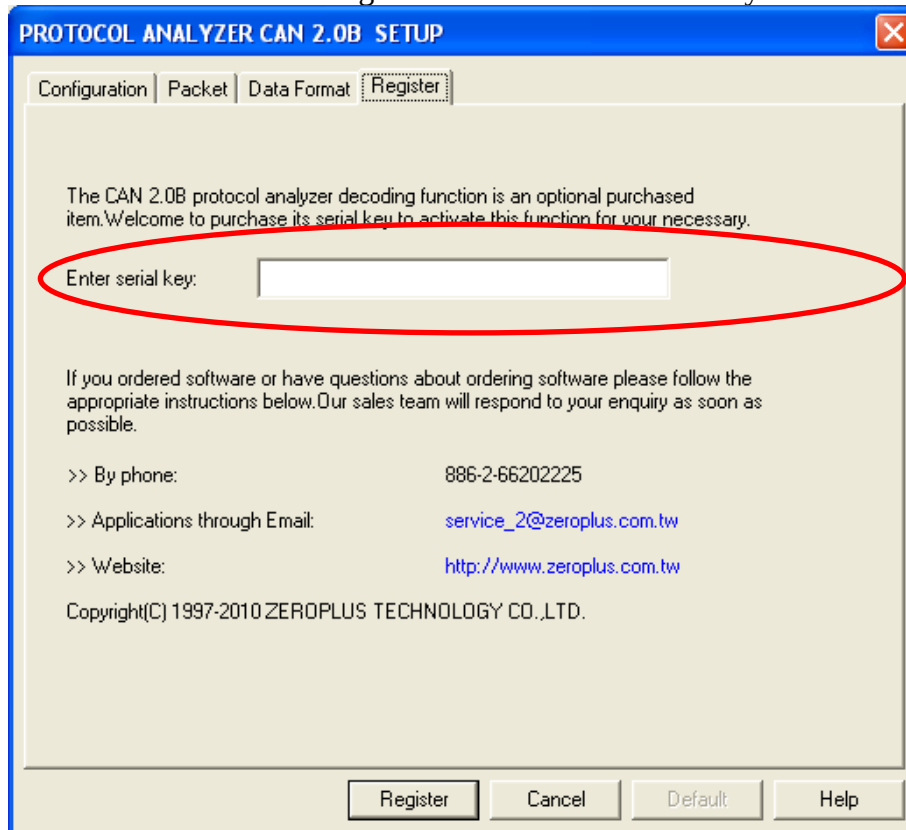




STEP 3. For Protocol Analyzer CAN 2.0B Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA CAN 2.0B MODULE V1.32.00(CN01)**. Next click **Parameters Configuration** to open the **PROTOCOL ANALYZER CAN 2.0B SETUP** dialog box.

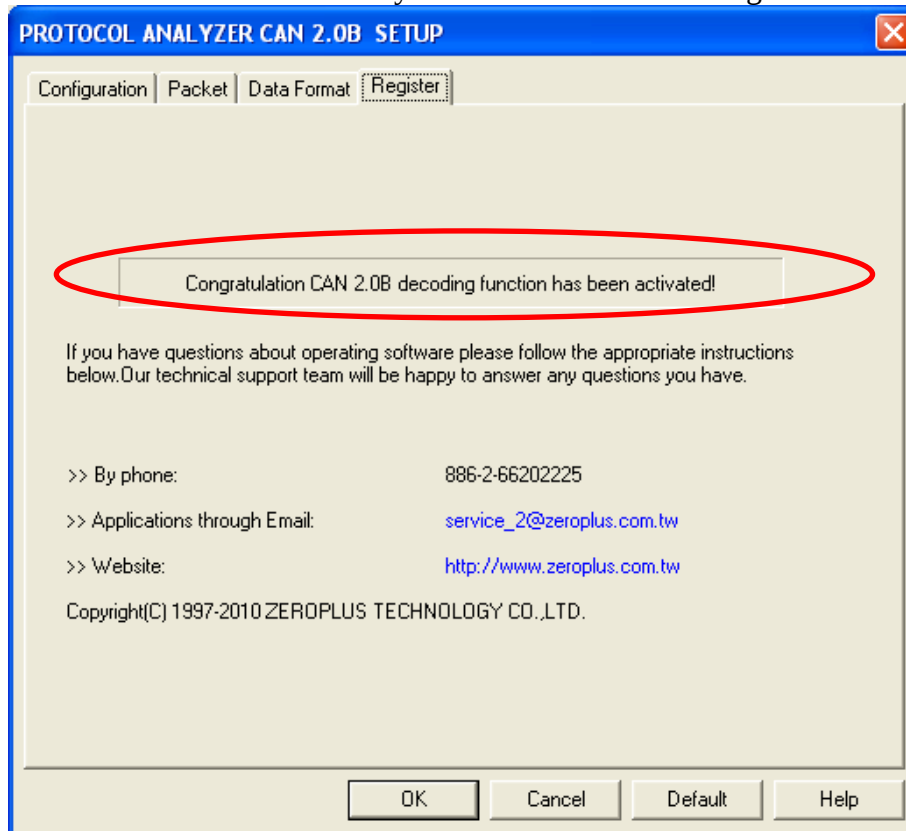


STEP 4. Press the Register tab to enter the serial key of the **CAN 2.0B**. Then, press **Register**.





STEP 5. After pressing the Register button, the following dialog box will appear; it denotes that the Protocol Analyzer CAN 2.0B has been registered successfully.

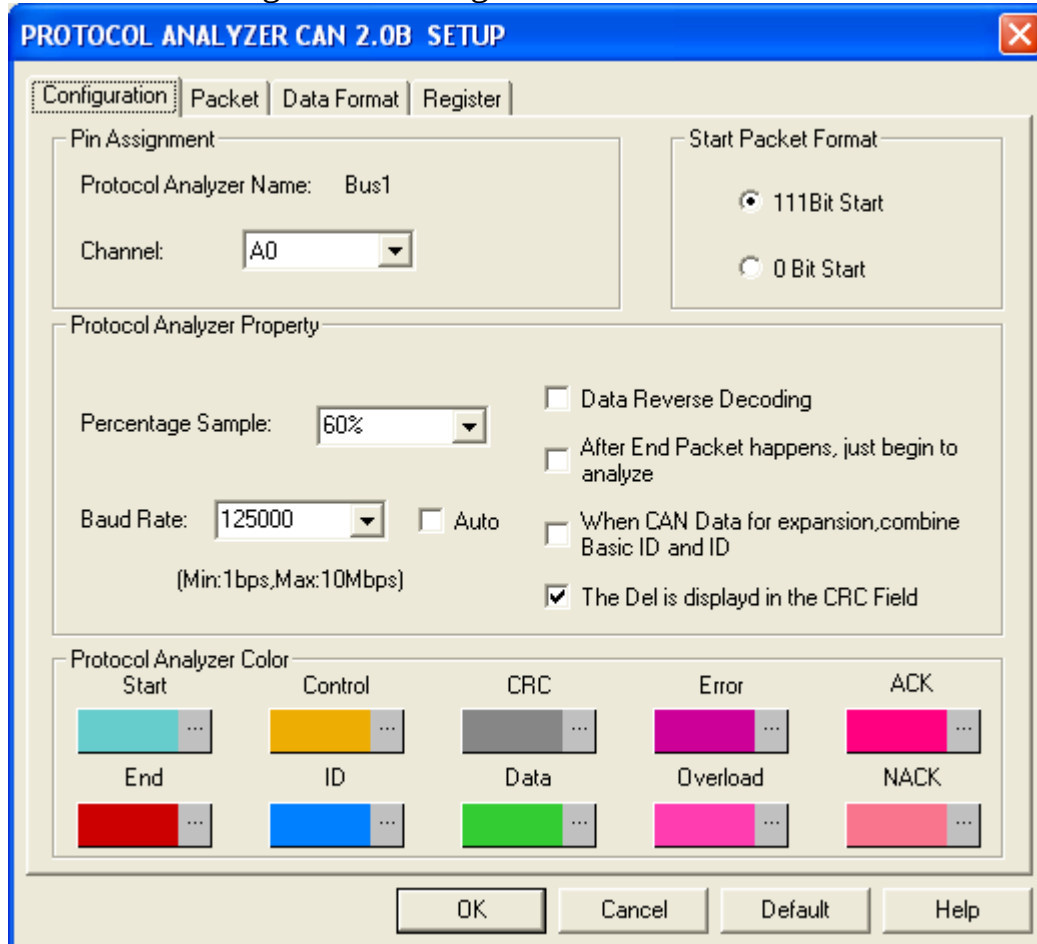




4 User Interface

Please refer to the below images to select options of setting **CAN 2.0B MODULE**.

CAN 2.0B Configuration dialog box



Pin Assignment: Protocol Analyzer CAN 2.0B only needs one channel to decoding signals, the default channel is A0.

Start Packet Format: The Start Position can be divided into two formats, 111 Bit Start (the Start Position is that three bits are High.) and 0 Bit Start (the Start Position is that one bit is Low).

Protocol Analyzer Property:

Percentage Sample: The Percentage Sample should be entered in the position of the Baud Rate which is selected from the range between 25% and 75%, and the default of the Baud Rate is 60%. The resolution can be adjusted to 1%.

Baud Rate: The Baud Rate can be set to Integer or selected from the pull-down menu (10000, 20000, 40000, 50000, 80000, 100000, 125000, 200000, 250000, 400000, 500000, 660000, 800000 and 1000000) manually, and the default is 125000. If the Auto is selected, the Baud Rate can be calculated by the main program automatically and displayed on the CAN 2.0B dialog box.



Data Reverse Decoding: If it is selected, the data can be decoded in reverse.

After End Packet happens, just begin to analyze: If it is selected, the signal will be decoded when the End Packet appears.

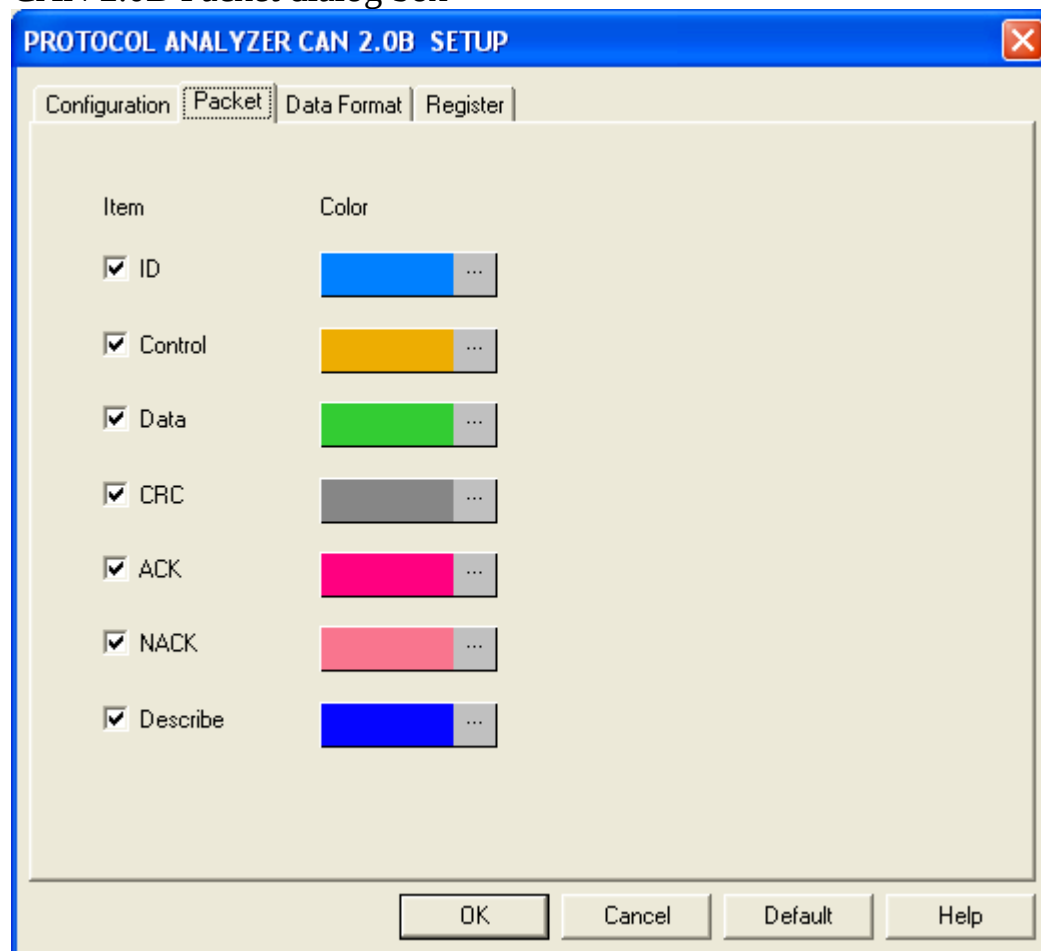
When CAN Data for expansion, combine Basic ID and ID: If the option is selected, the Basic ID and ID will be combined.

The Del is displayed in CRC Field: If it is selected, the Del will be displayed in the CRC Field.

Protocol Analyzer Color:

The protocol analyzer colors can be varied by users.

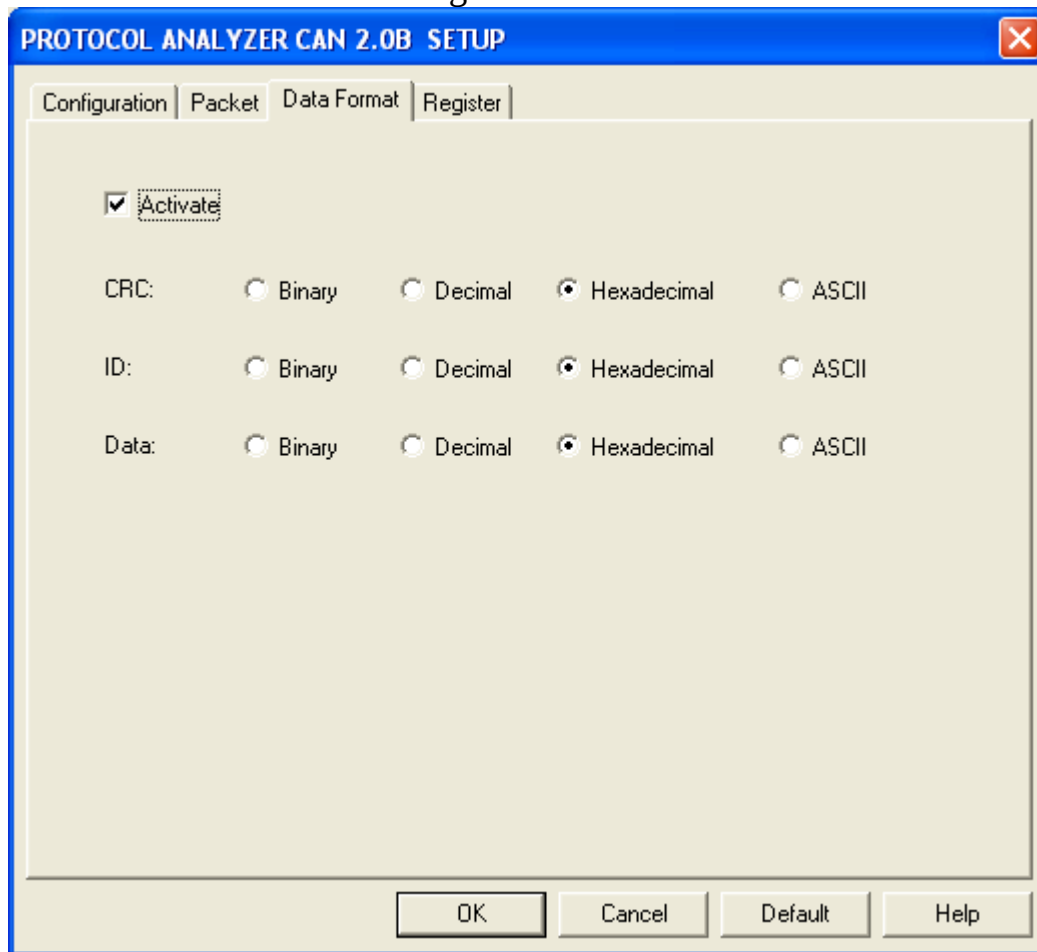
CAN 2.0B Packet dialog box



In the packet part, users can select the items and colors configuration according to users' requirements.



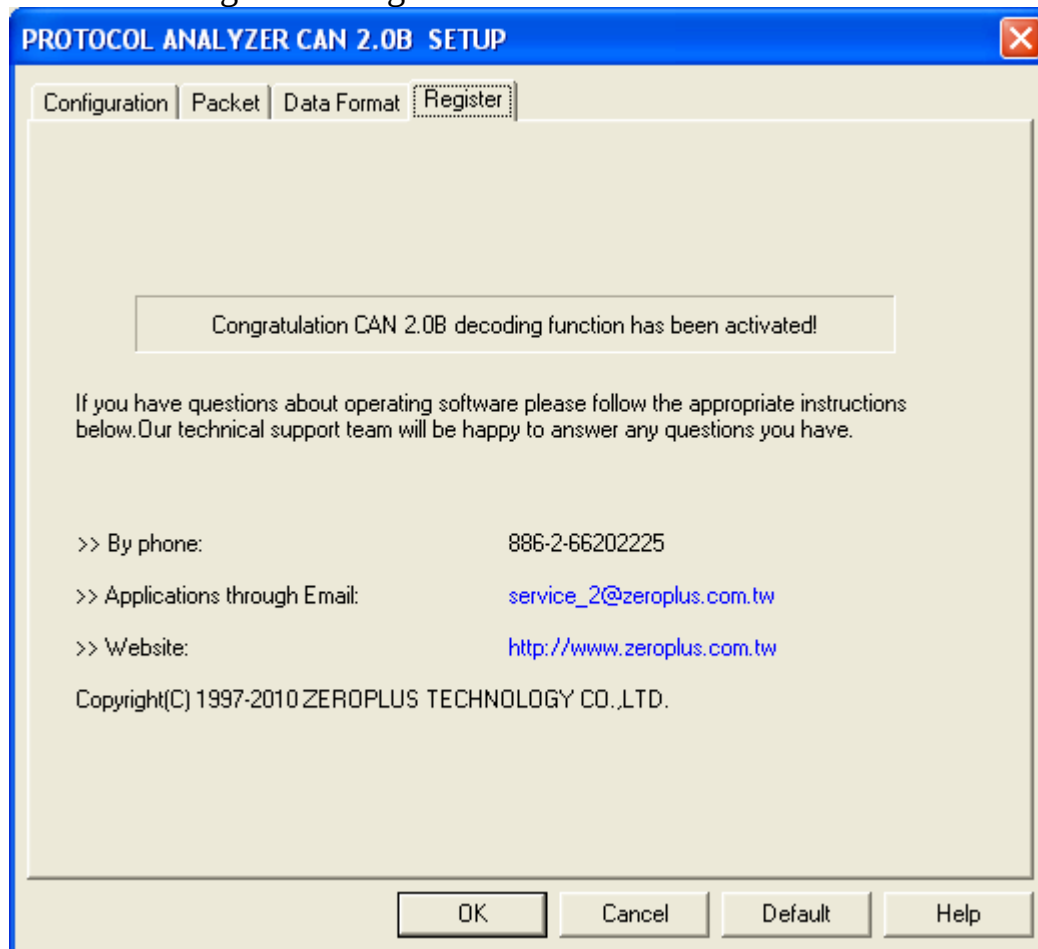
CAN 2.0B Data Format dialog box



Users can set the Data Format of the CRC, ID 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.



CAN 2.0B Register dialog box

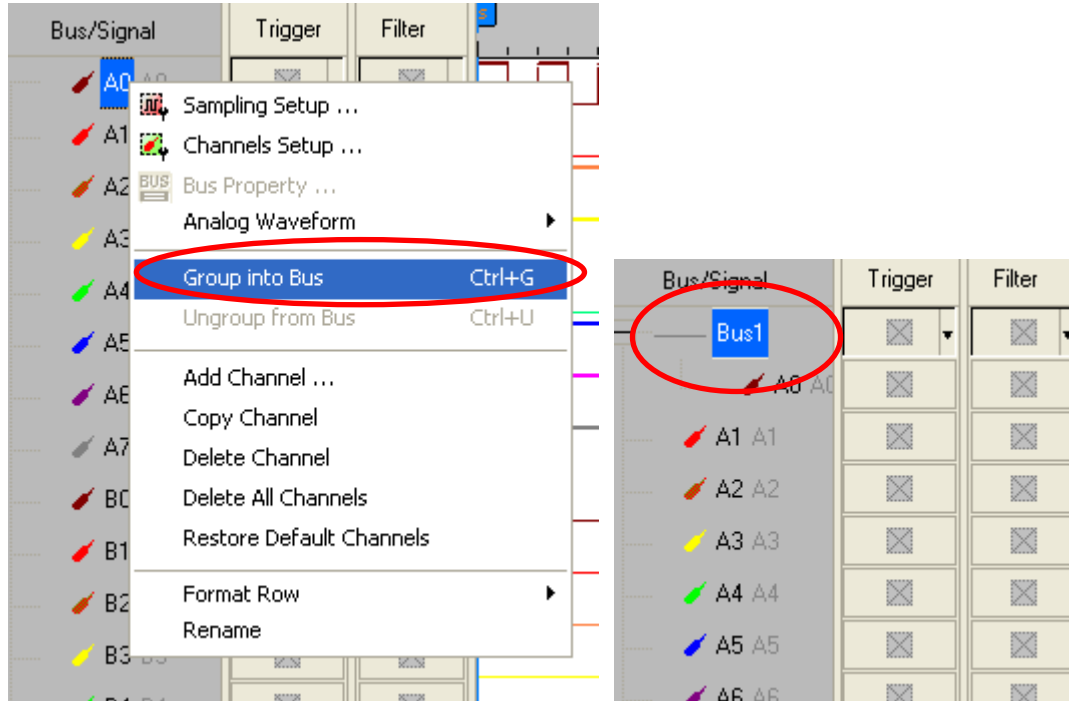


There is ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

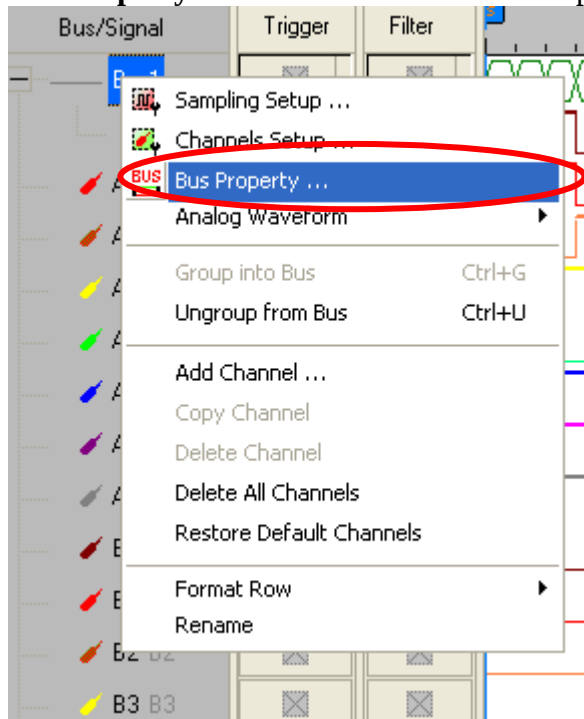


5 Operating Instructions

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

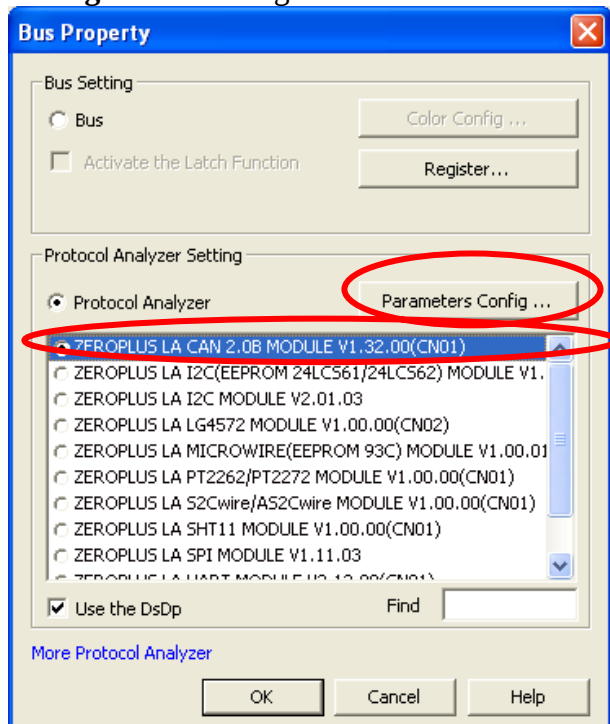


STEP 2. Select **Bus1**, then press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** bar on the toolbar to open **Bus Property** dialog box.

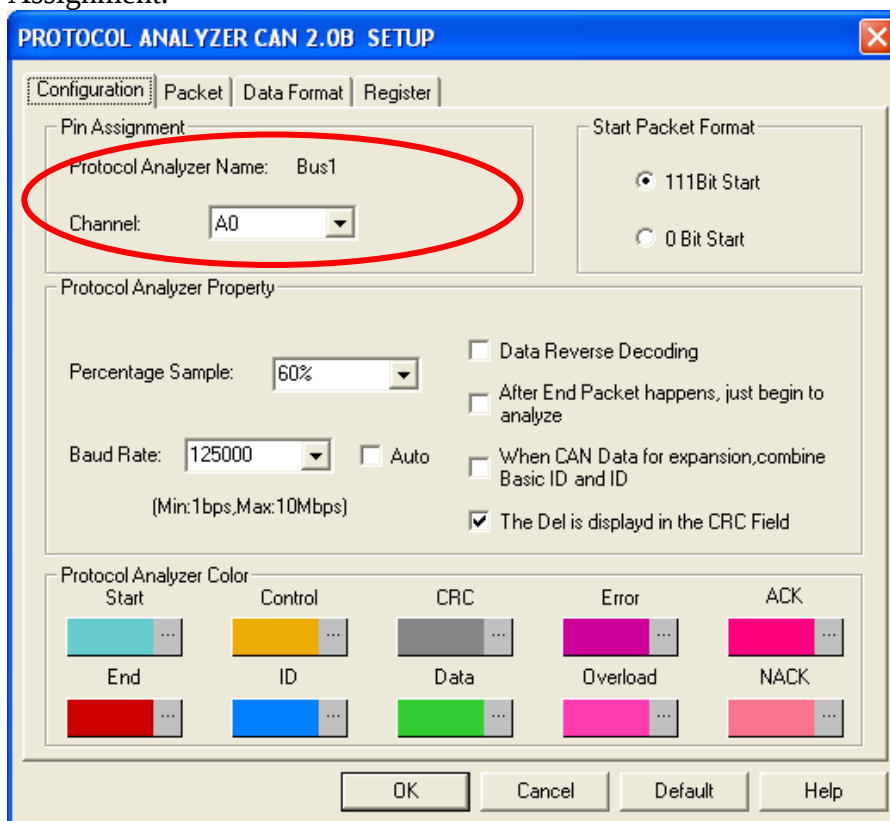




STEP 3. Protocol Analyzer Setting. Click Protocol Analyzer and select **ZEROPLUS LA CAN 2.0B MODULE V1.32.00(CN01)** and click the **Parameters Configuration** to open the **Configuration** dialog box.

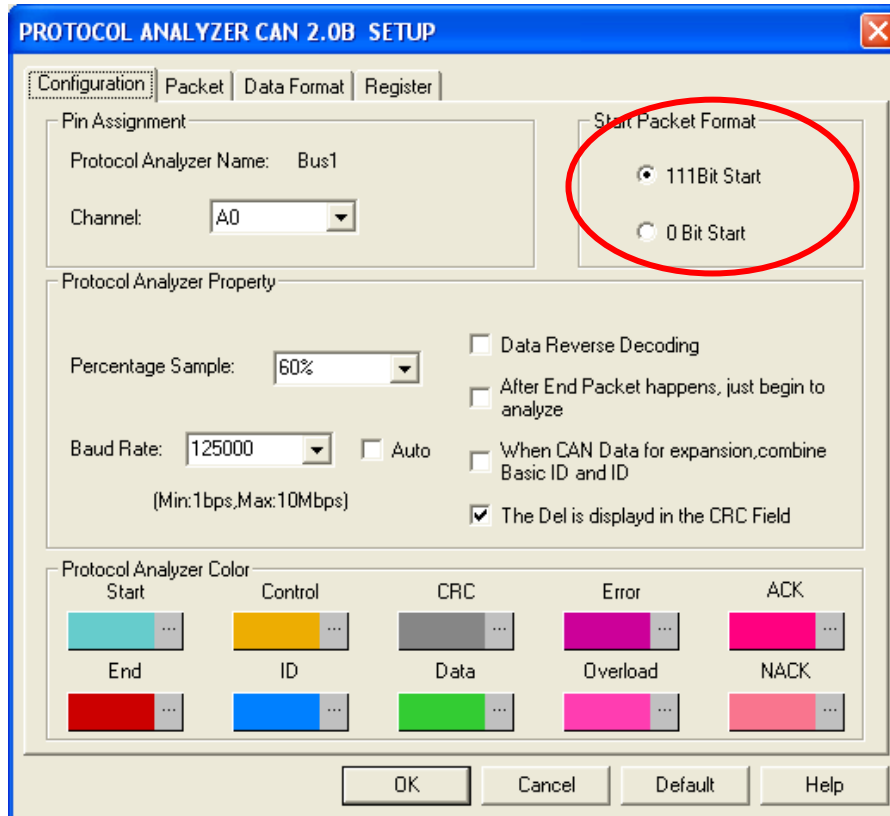


STEP 4. Open the **Configuration** dialog box, and set the Channel in the Pin Assignment.

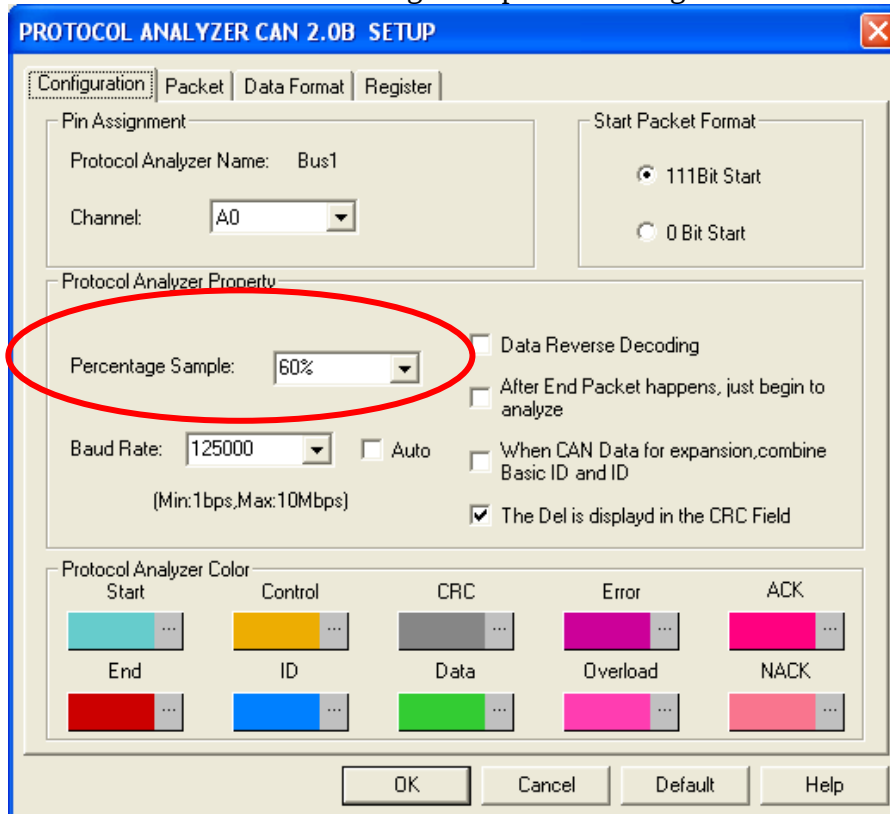




STEP 5. Set the Start Packet Format as “111 Bit Start” or “0 Bit Start”.

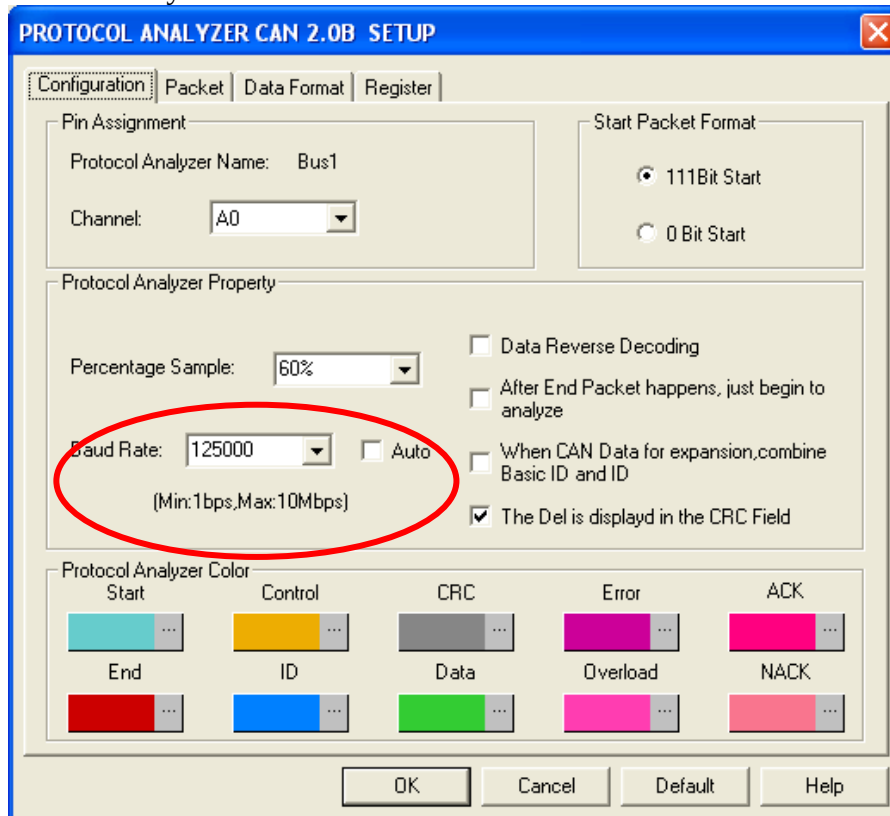


STEP 6. Set the Percentage Sample in the range from 25% to 75%.

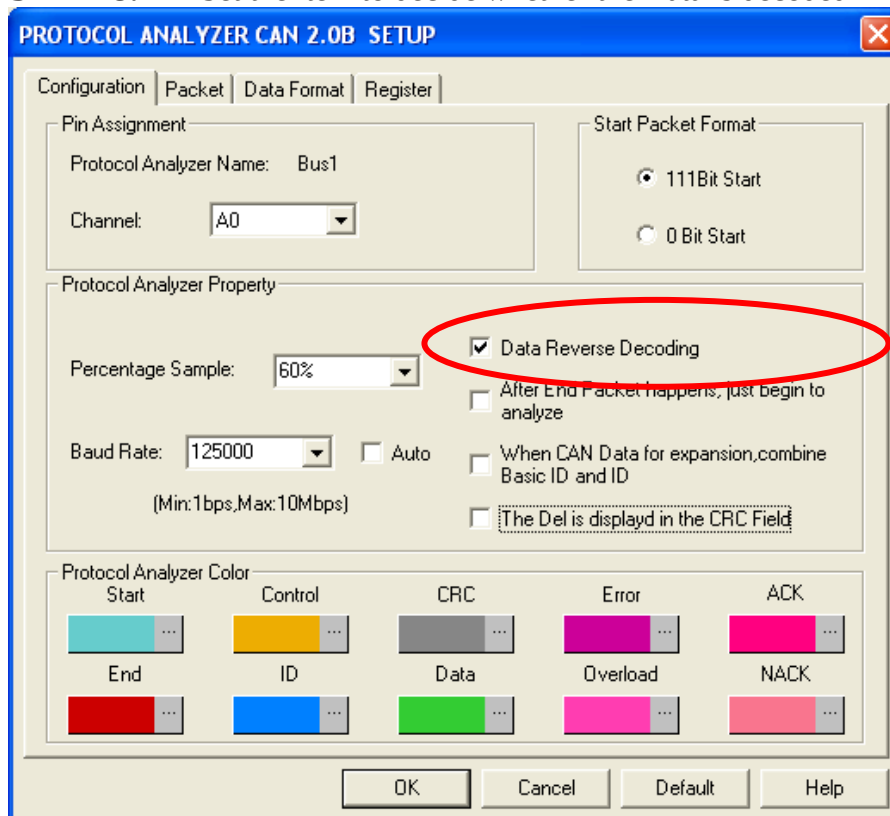




STEP 7. Set the appropriate Baud Rate or select **Auto** to calculate the Baud Rate automatically.

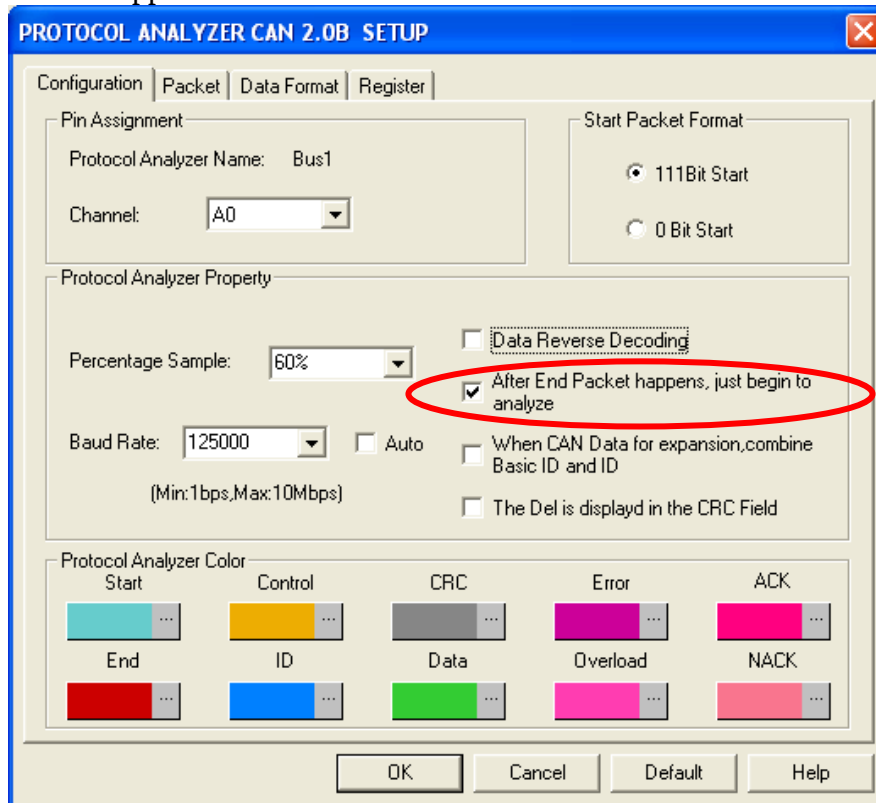


STEP 8. Set the item to decide whether the Data is decoded in reverse or not.

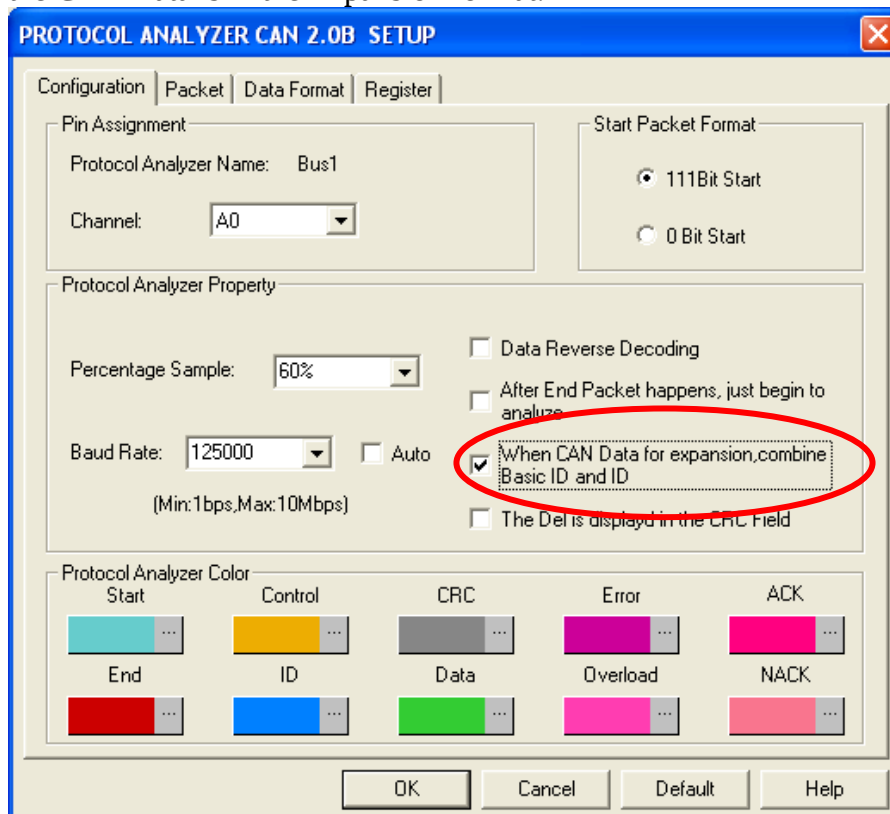




STEP 9. Set the item to decide whether the signals are decoded or not after the End Packet happens.

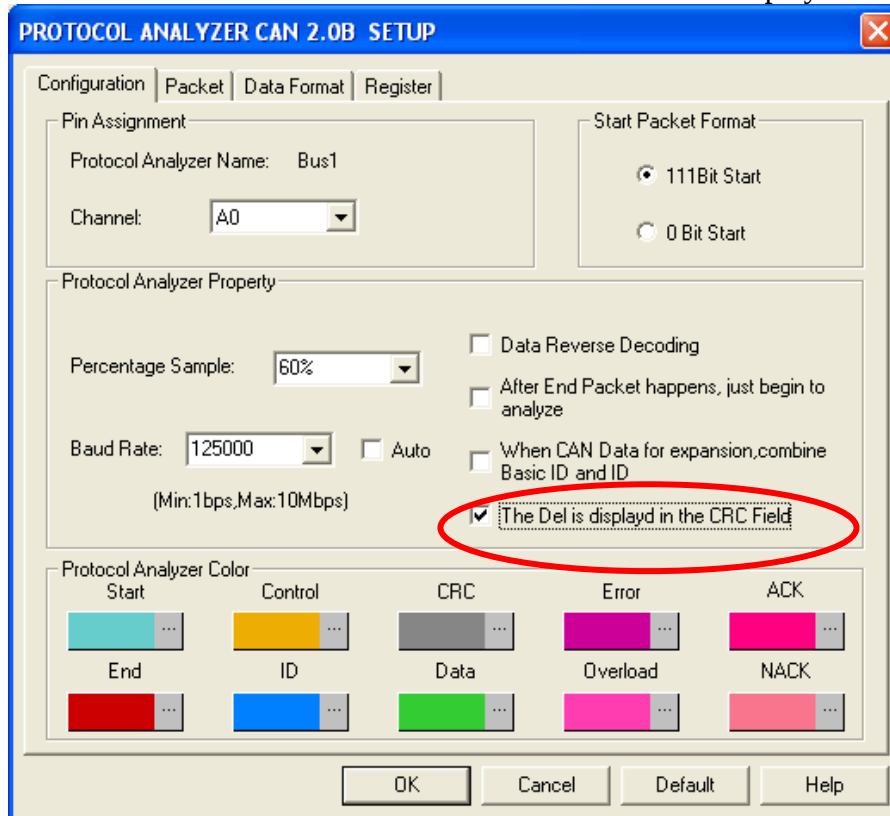


STEP 10. Set the item to decide whether the Basic ID and ID are combined or not when the CAN Data is in the Expansion format.

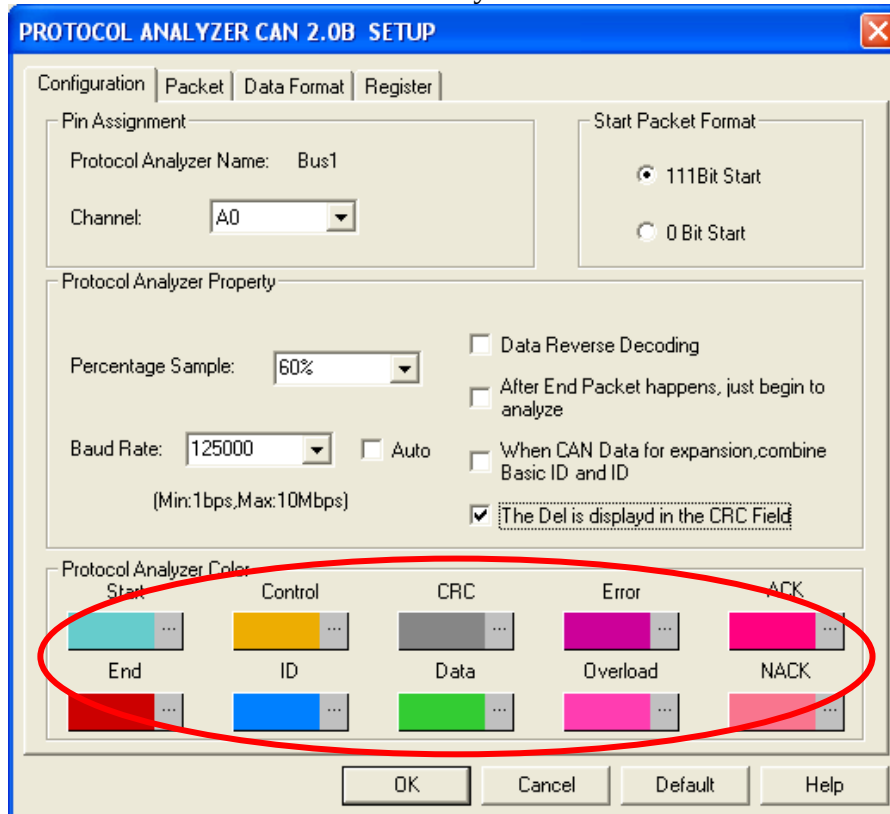




STEP 11. Set the item to decide whether the Del is displayed in the CRC Field or not.



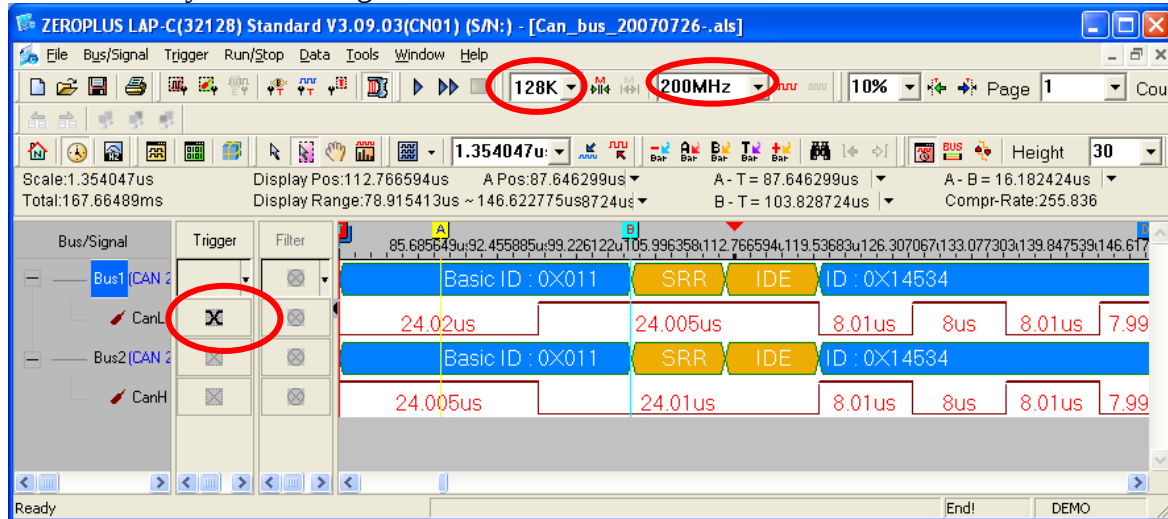
STEP 12. Set the Protocol Analyzer Color.





STEP 13. Following pictures show the completion of the protocol analyzer decoding. the Trigger condition of CANL is set as Either Edge; the Memory depth is 128K; the Sampling frequency is 200MHz (the sampling frequency should be more than four times higher than the signal to be tested).

Protocol Analyzer Decoding



Packet List

