



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

SPECIFICATION

MODEL: LIN2.1 Specification

PART NO : 014 _____

VERSION : V2.05 _____

Approver		Check	Design
GM	PM		

Customer Confirm

* Please fax the file to
ZeroPlus Technology after
signing .

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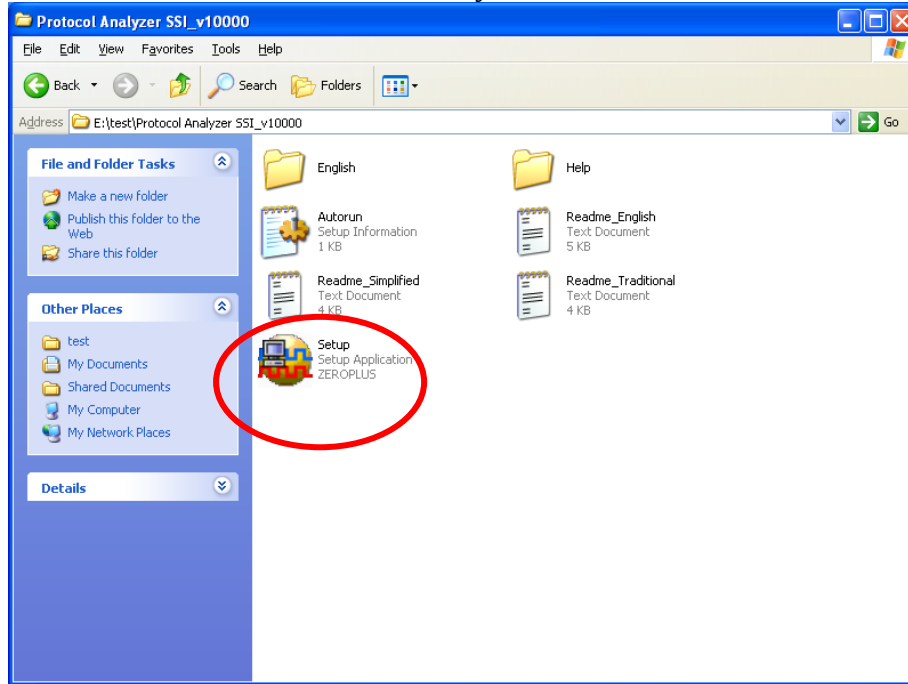


1 Software Installation

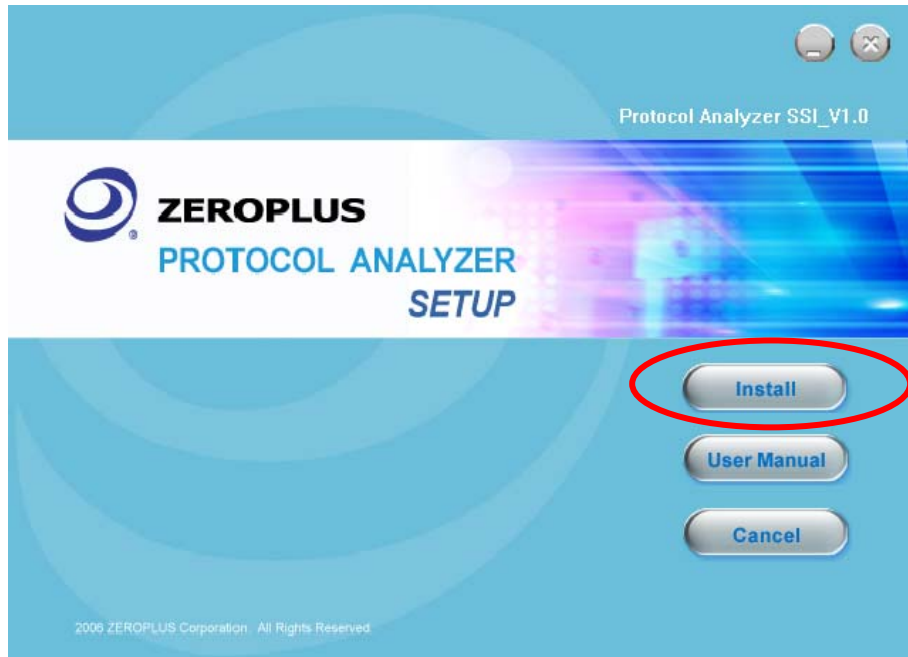
Please install the software as the following steps:

- ※ Remark: 1. The installation steps for all protocol analyzers are the same; you can complete the installation by following procedures. Following is an example on how to install protocol analyzer SSI.
- ※ Remark: 2. 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. Install Protocol Analyzer Module.

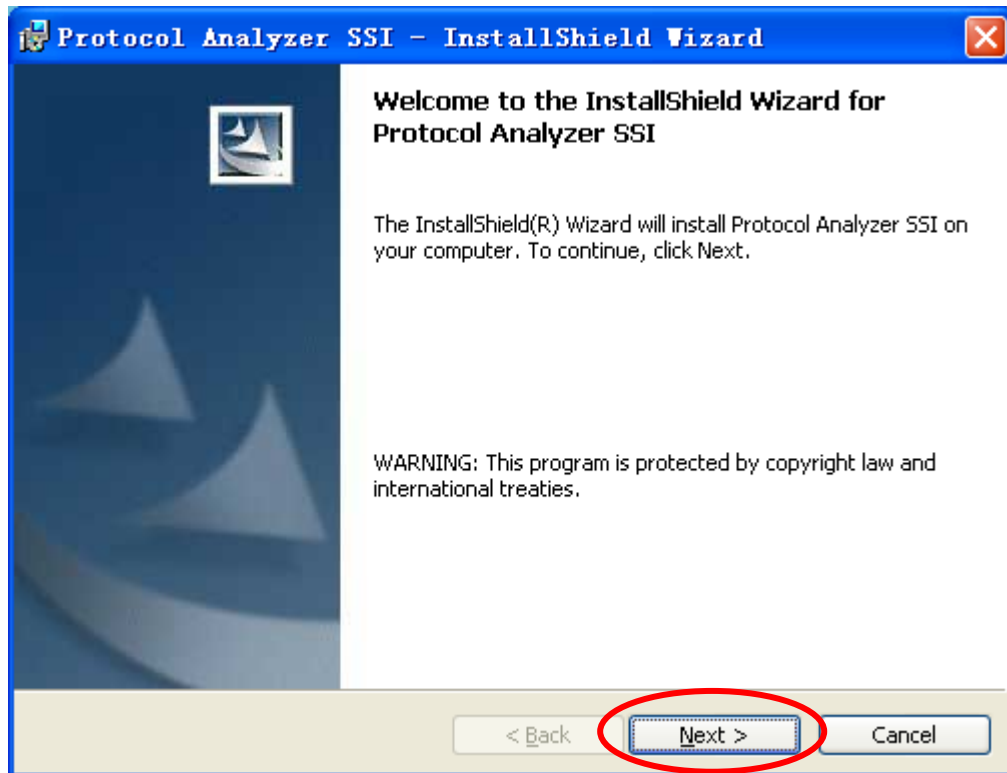


STEP 2. Click Install.

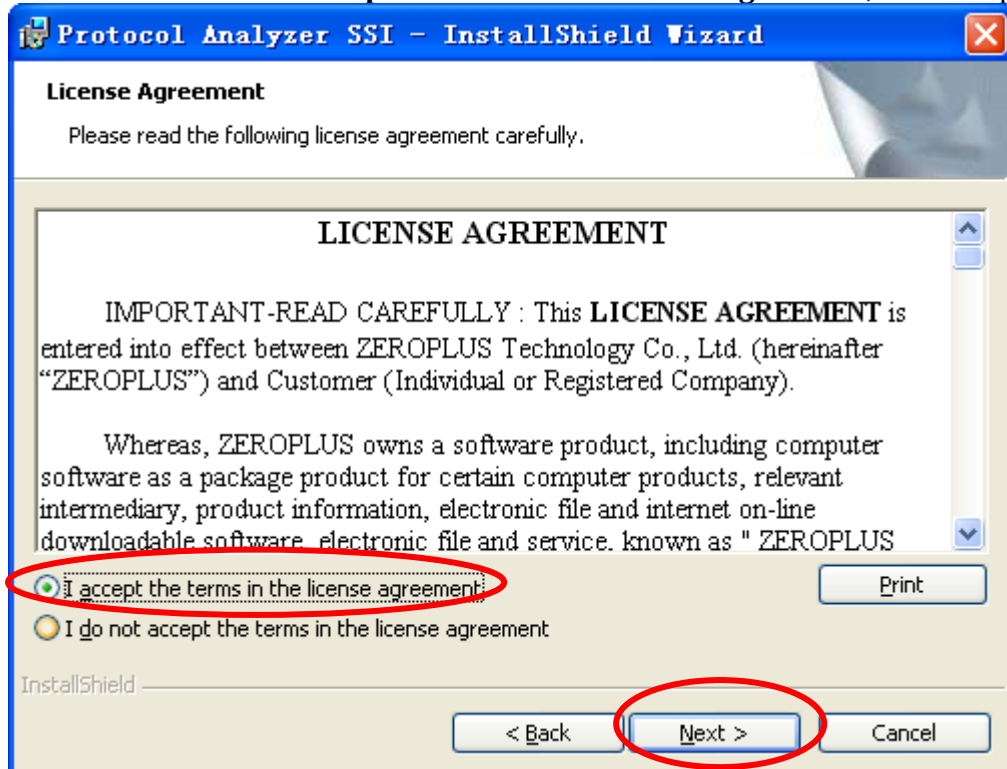




STEP 3. Click Next.



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 SSI - InstallShield Wizard". It contains the following fields and options:

- Customer Information**
Please enter your information.
- User Name:** A text box containing "sunshine".
- Organization:** A text box containing "zeroplus".
- Install this application for:**
 - ☒ Anyone who uses this computer (all users)
 - ☐ Only for me (sunshine)
- At the bottom, there are three buttons: "< Back", "Next >" (which is circled in red), and "Cancel".

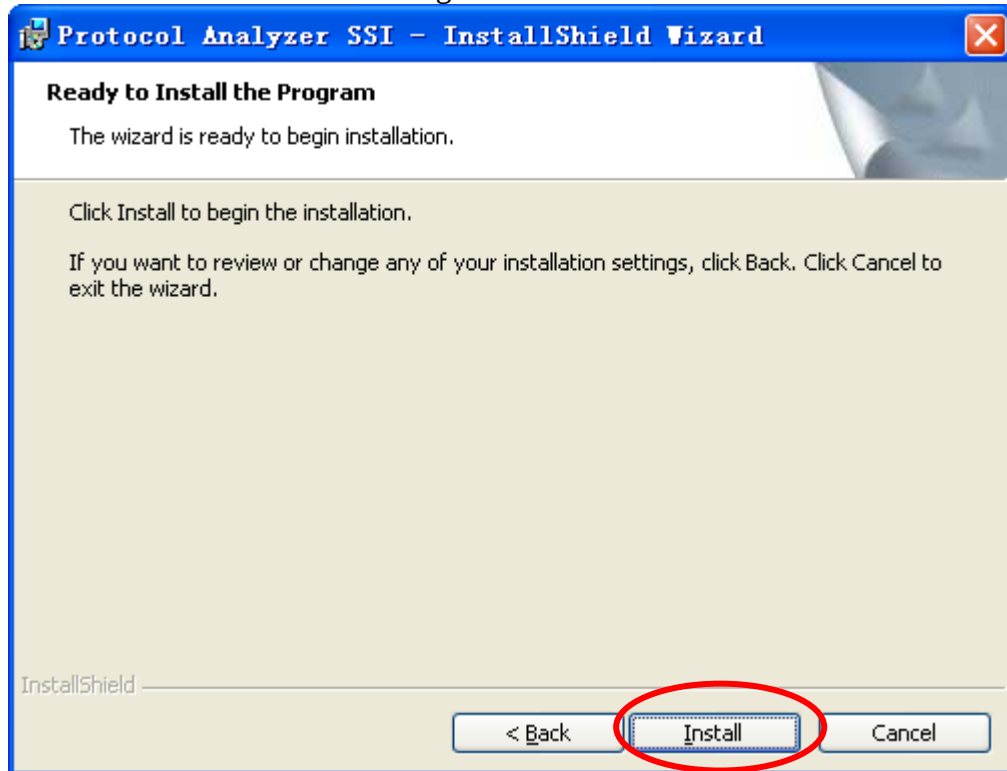
STEP 6. First, select **Complete** and then click **Next**.

The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It contains the following fields and options:

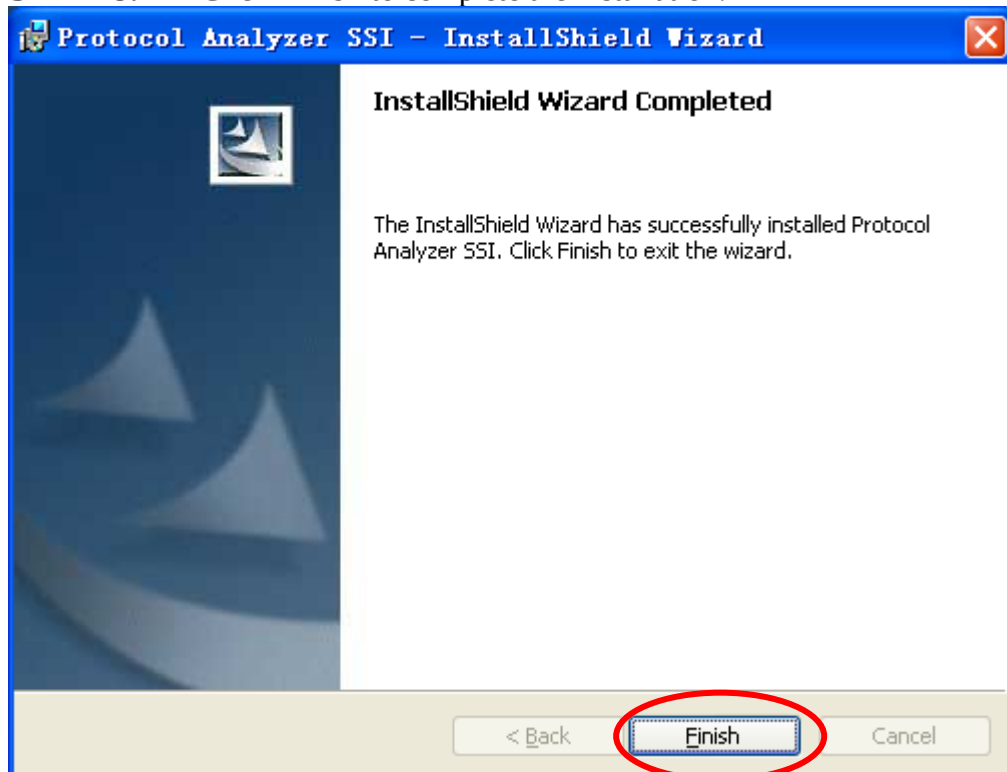
- Setup Type**
Choose the setup type that best suits your needs.
- Please select a setup type.**
- Complete** (selected with a radio button and a small icon of a computer with a red 'X')
All program features will be installed. (Requires the most disk space.)
- Custom** (unselected with a radio button and a small icon of a computer with a red 'X')
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".



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



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

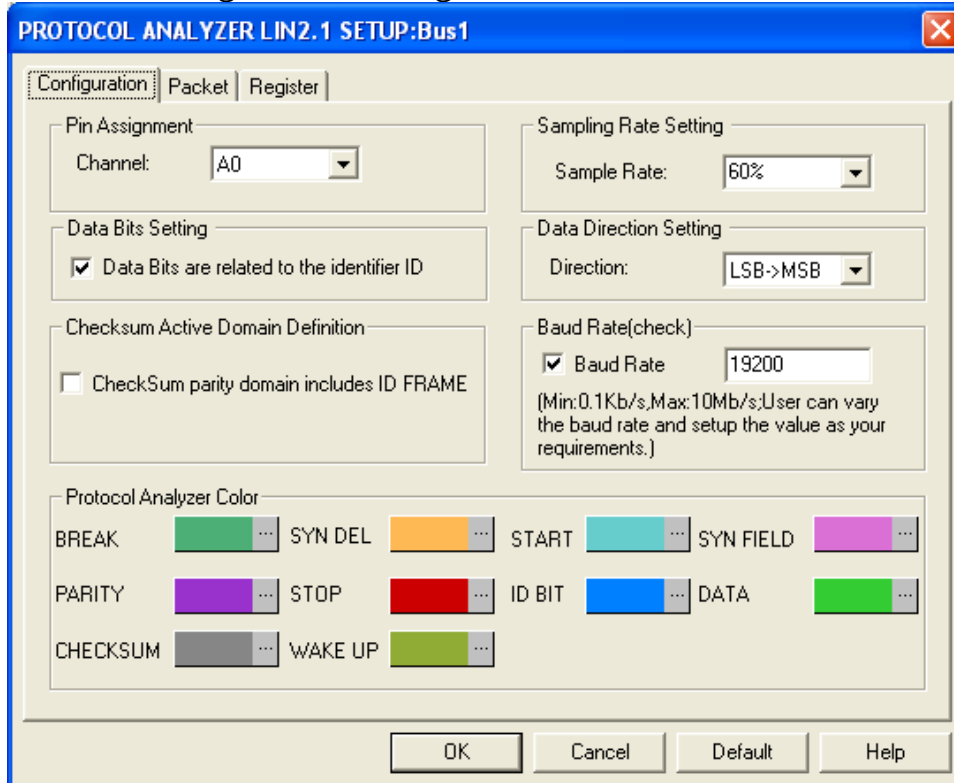




2 User Interface

Please refer to images below to select options of setting **LIN2.1 Module**.

LIN2.1 Configuration Dialog Box



LIN2.1 Pin Assignment: The default is A0.

Sampling Rate Setting: It can be set at the range of 20%-80%; the default is 60%.

Data Bits Setting:

When **Data Bits are related to the identifier ID** is selected, it means that the data bits are related to the identifier ID. The corresponding data bits can be decoded when this option is selected; the default of the option is selected.

Data Direction Setting:

The default direction is LSB -> MSB, including SYN FIELD, ID BIT, CHECKSUM, DATA.

Please pay attention that the ID BIT and PARITY are equal to ID FIELD.

Checksum Active Domain Definition: When it is activated, the checksum parity domain includes ID FRAME.

Baud Rate:

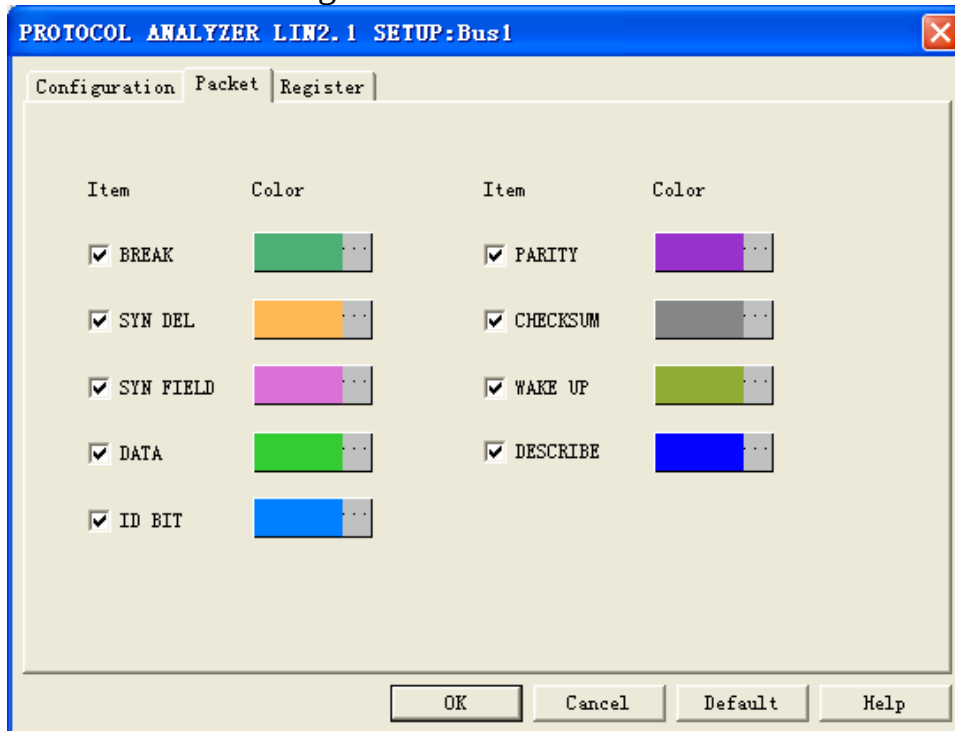
When the Baud Rate is selected, the input /output signal will be corrected. The calculation method is per baud rate equal to $1 T$ (synbit/8) which is the same as the foregoing formula. Users can select the value from the pull-down menu or enter a value as their requirements within the range 0.1Kb/s~10Mb/s.

Protocol Analyzer Color:

The default colors are as images below. Once Error occurs, the warning color turns red.

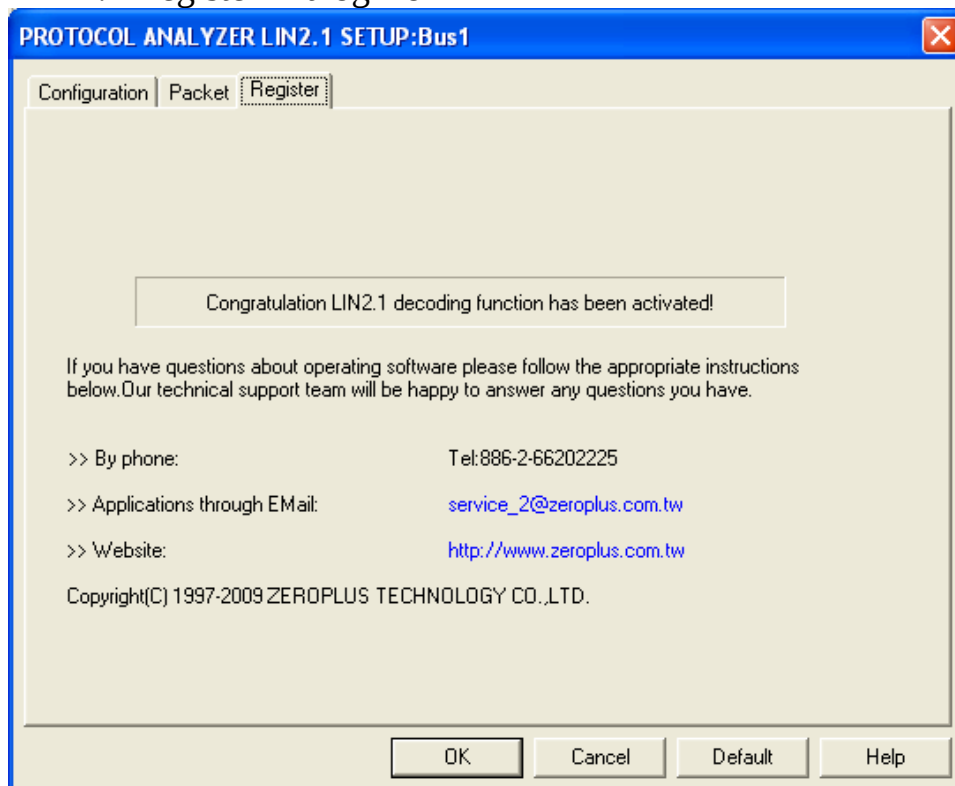


LIN2.1 Packet Dialog Box



In the packet dialog box, users can vary the color of items.

LIN2.1 Register Dialog Box

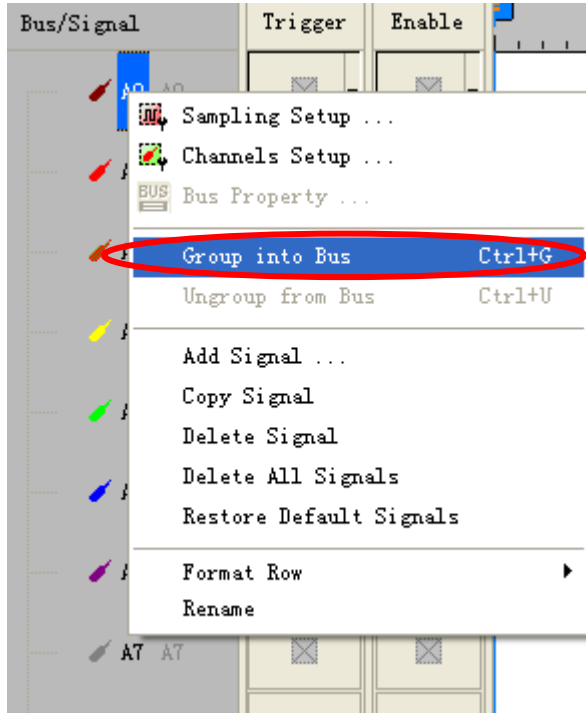


There is written ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

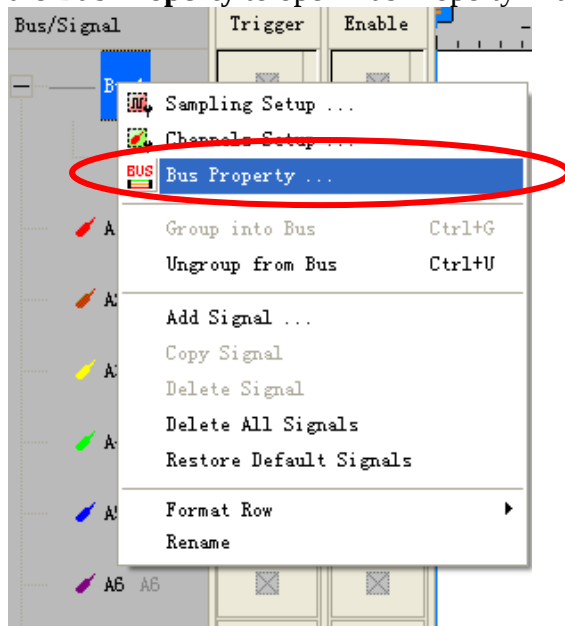


3 Operating Instructions

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

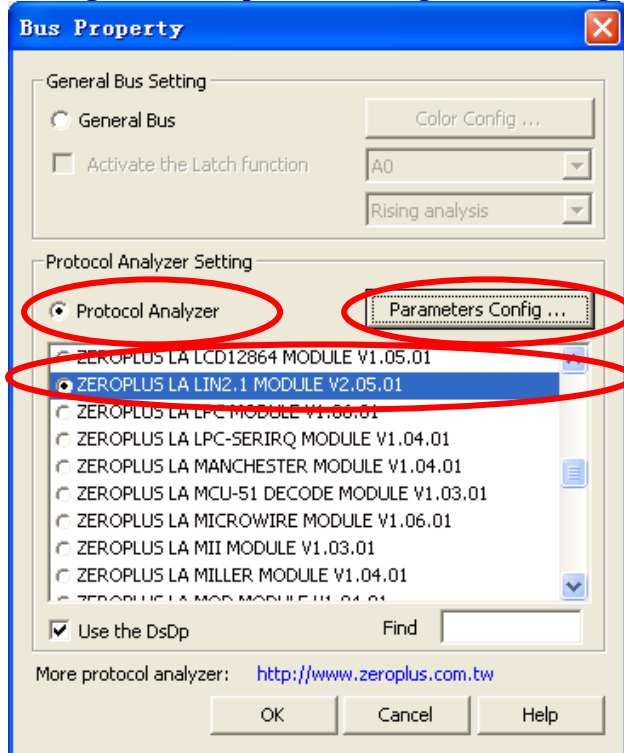


STEP 2. Select **Bus1**, then press the **Right Key** on the mouse to list the menu, next click the **Bus Property** to open Bus Property Dialog Box.

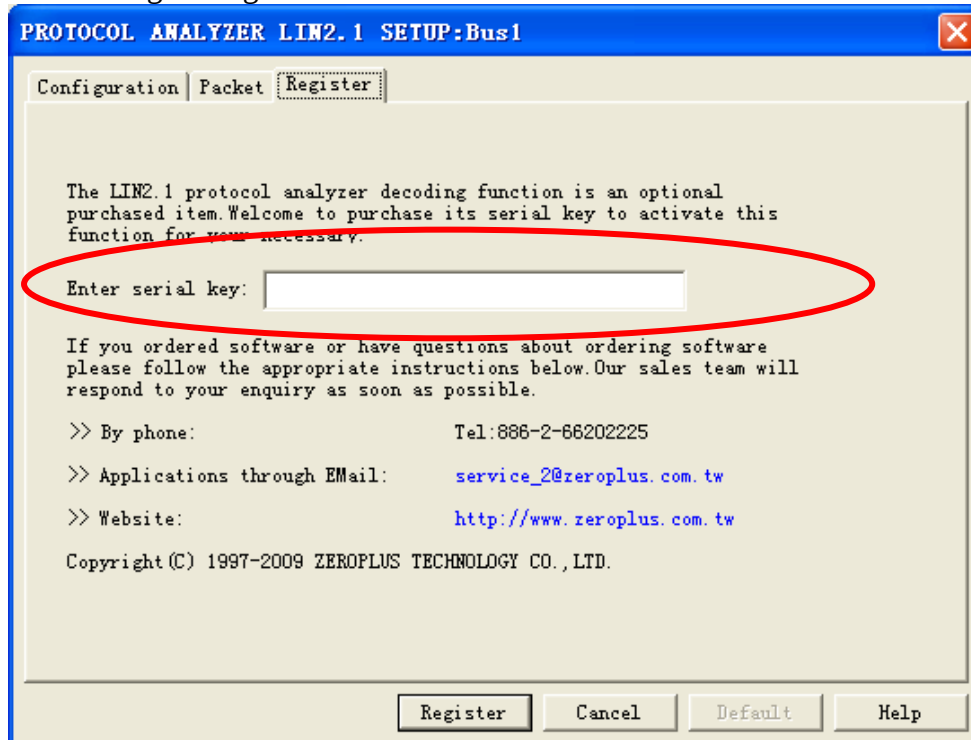




STEP 3. For Protocol Analyzer Parameters Configuration, select Protocol Analyzer, then choose **ZEROPLUS LA LIN2.1 MODULE V2.05.01**. Next click **Parameters Configuration** to pen the Configuration dialogue box.

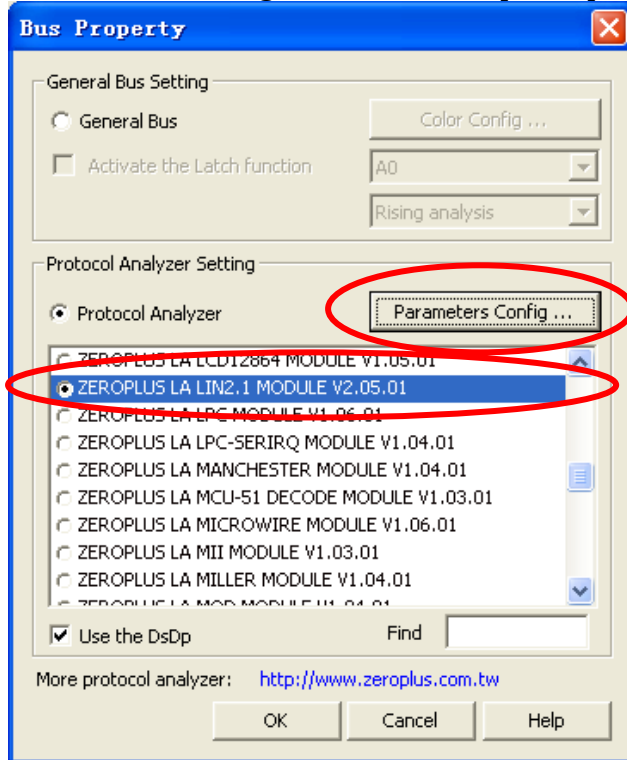


STEP 4. Resister information. Type the serial key number of LIN 2.1, then press **Register** to finish registering.

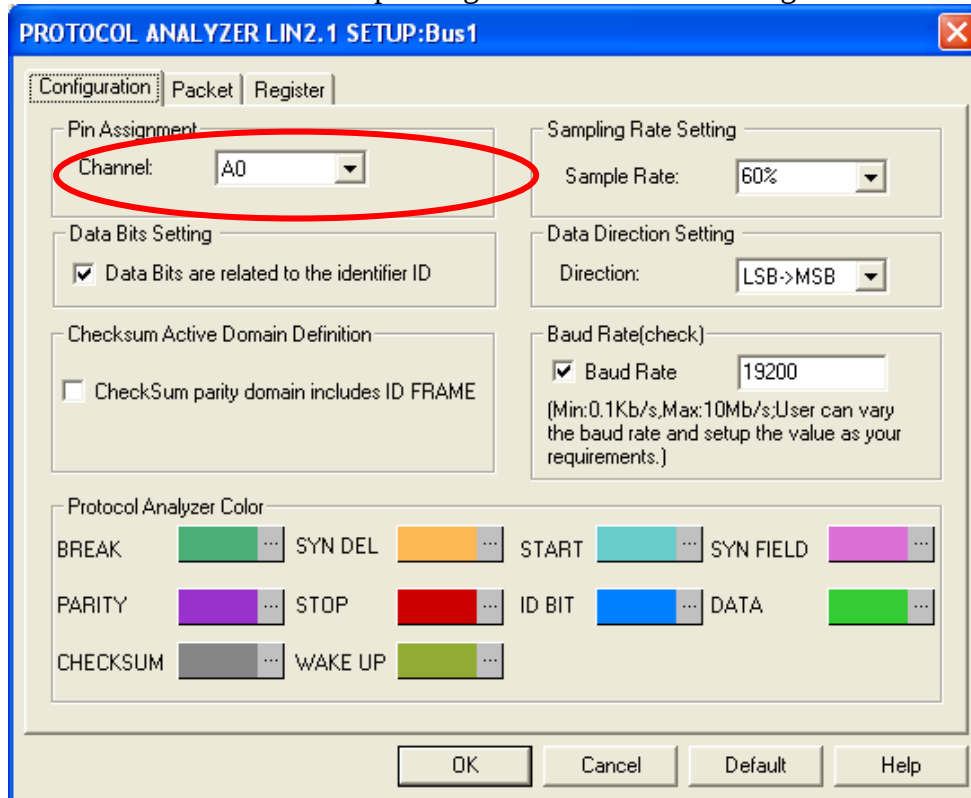




STEP 5. After completing Register, it turns to **Bus Property** dialogue box. Click **Parameters Configuration** to set up the parameters of the protocol analyzer.

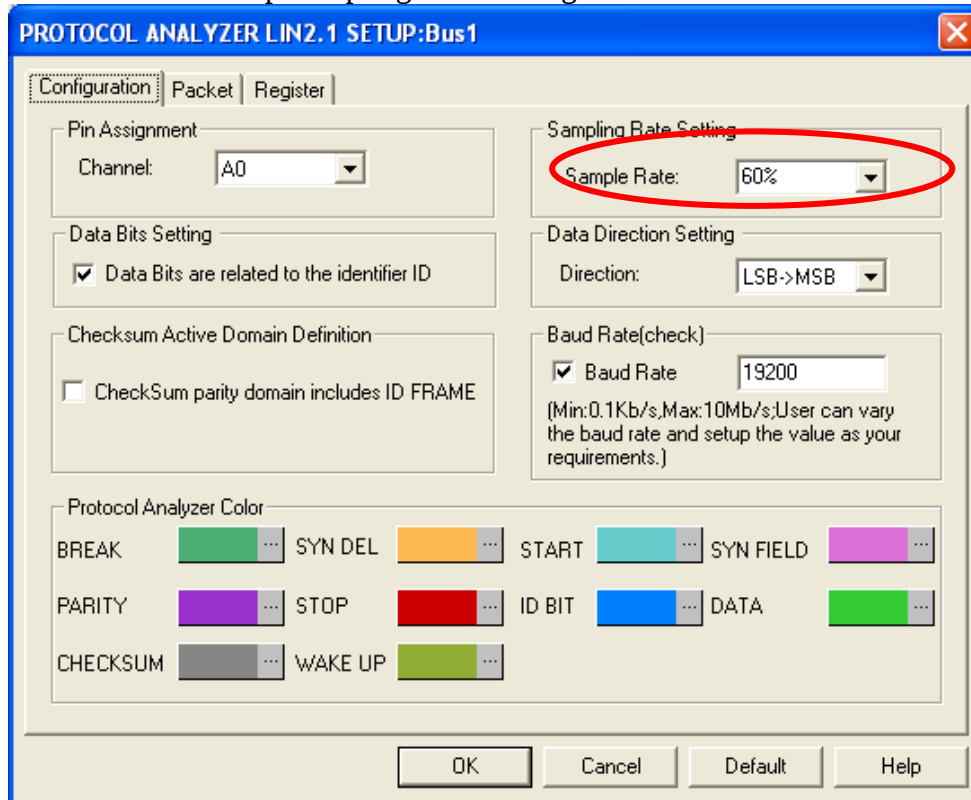


STEP 6. Set the corresponding channel in the Pin Assignment.

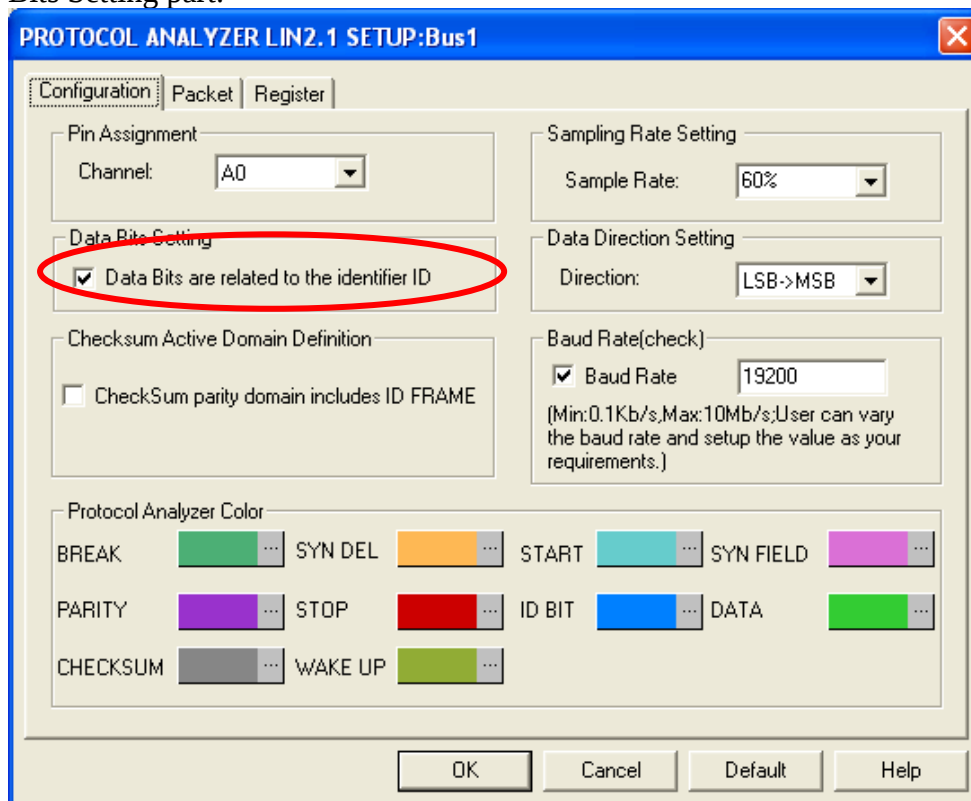




STEP 7. Set up Sampling Rate Setting and its default is 60%.

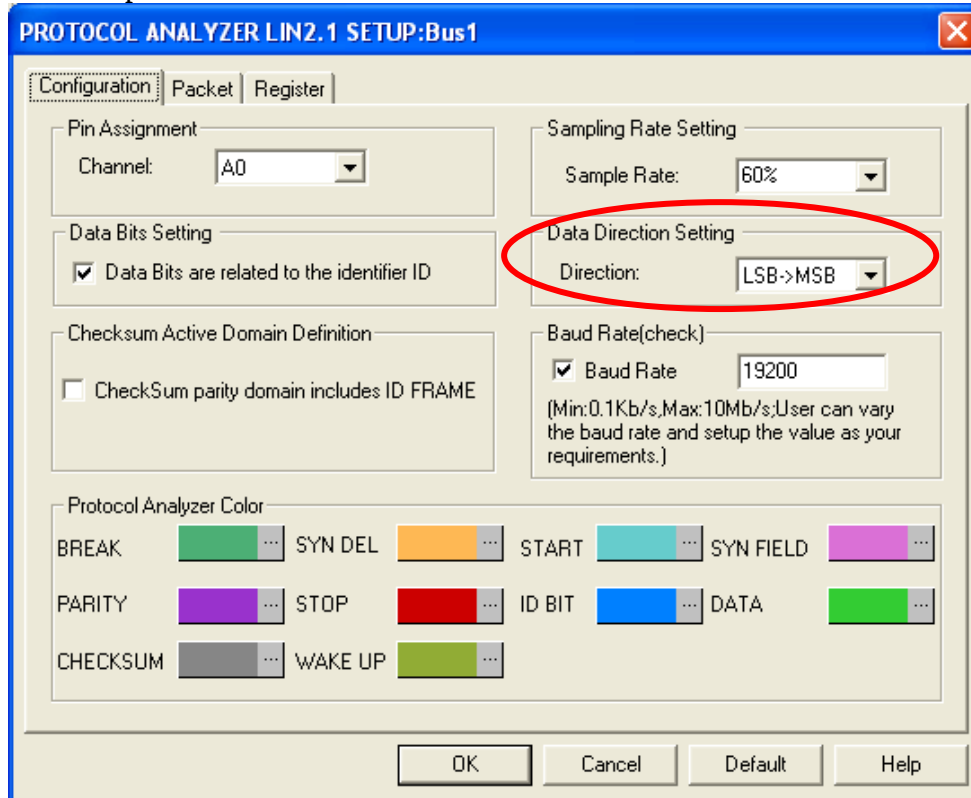


STEP 8. Set whether **DATA Bits are related to the identifier ID** is selected in the Data Bits Setting part.

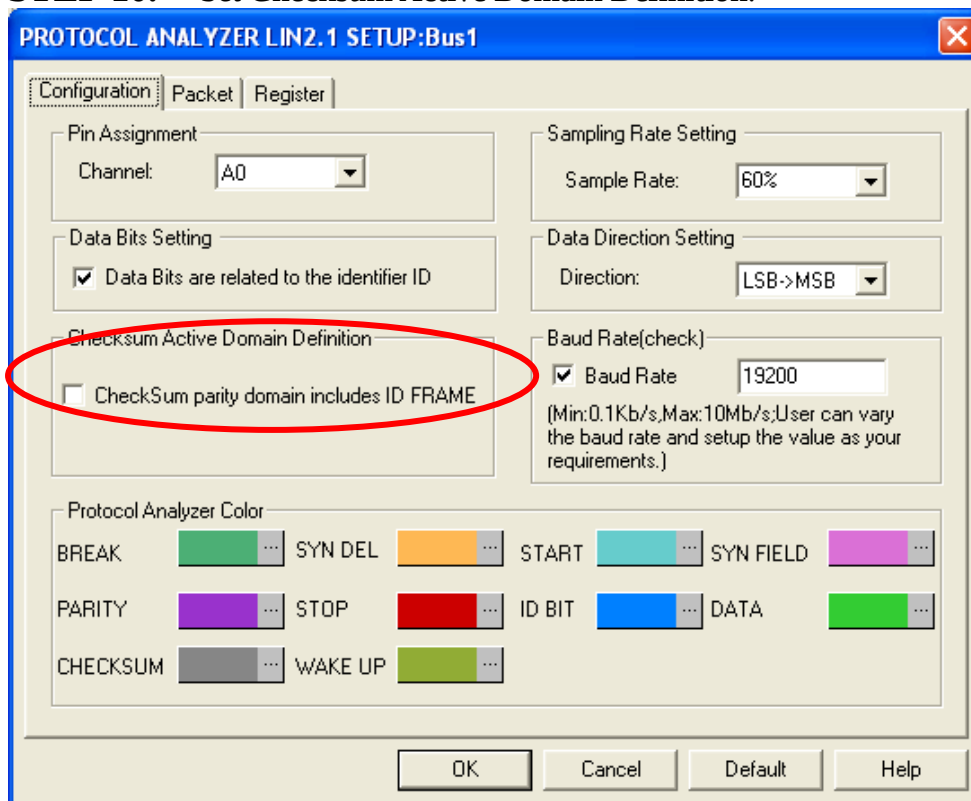




STEP 9. The default of Data Direction is LSB->MSB; users can choose the direction from the pull-down menu.

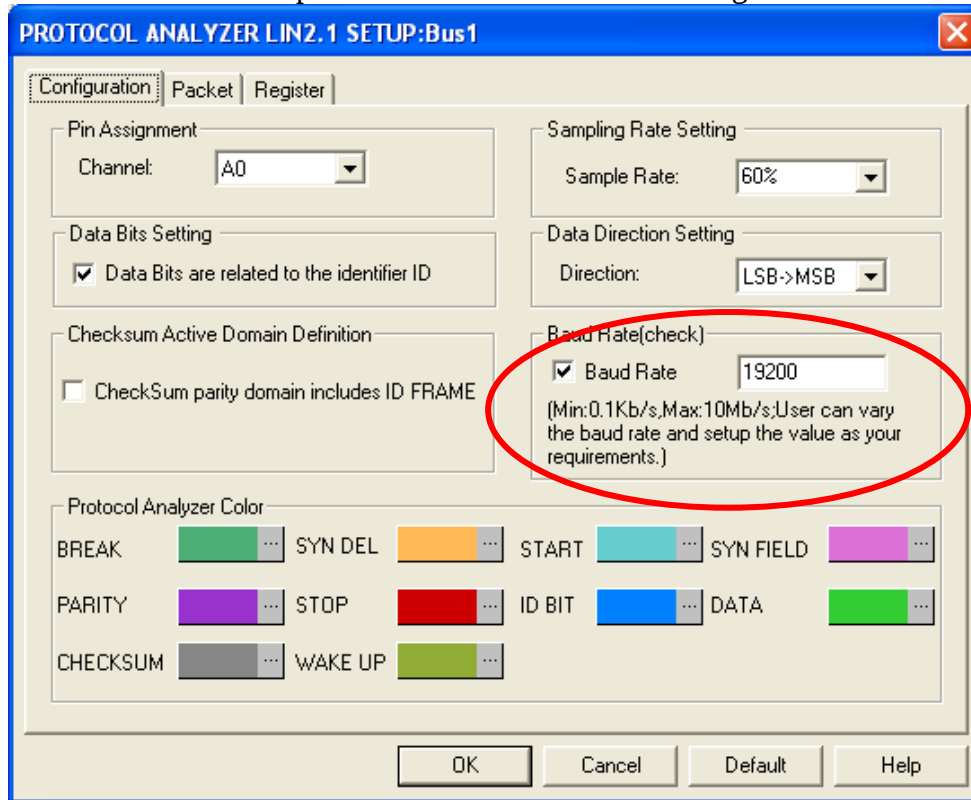


STEP 10. Set Checksum Active Domain Definition.

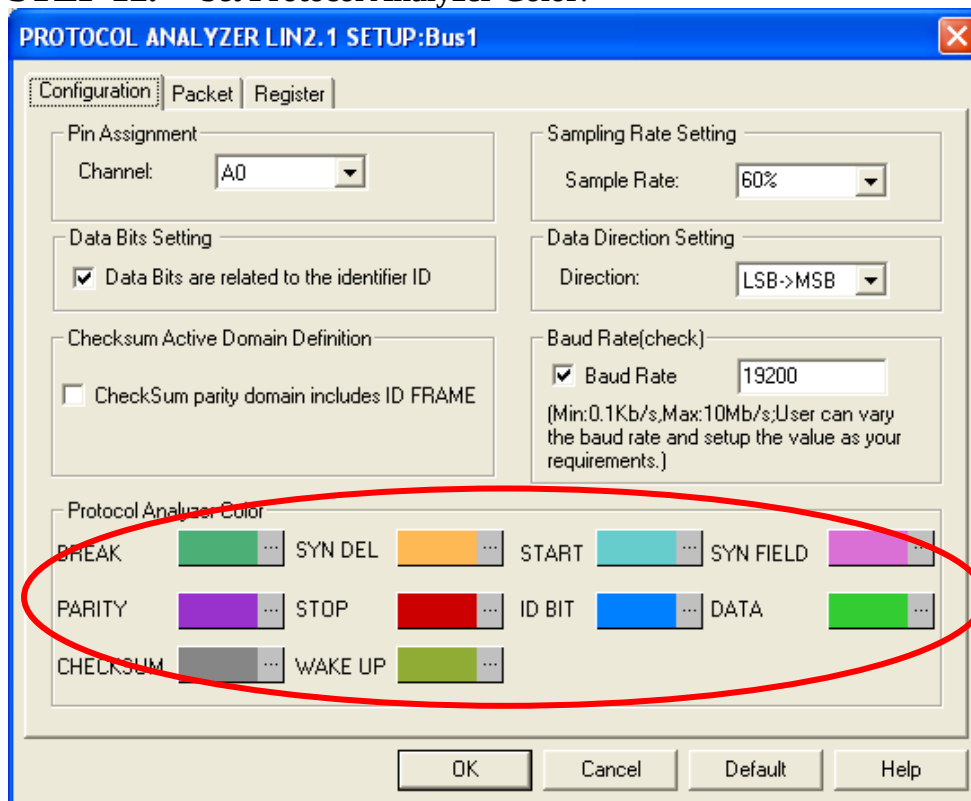




STEP 11. Set the parameter of **Baud Rate** in its range.



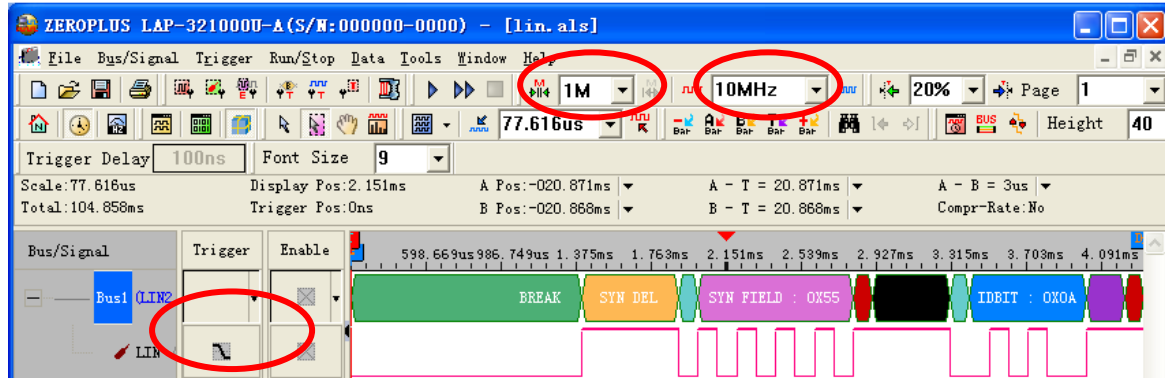
STEP 12. Set **Protocol Analyzer Color**.





STEP 13. Following pictures show the completion of the protocol decoding and packet list. The trigger condition is set as Falling Edge; the memory depth is 1M; the sampling frequency is 10MHz.

Protocol Analyzer Decoding



Packet List

