



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

SPECIFICATION

MODEL: MANCHESTER Specification

PART NO : 015 _____

VERSION : V1.04 _____

Approver		Check	Design
GM	PM		

Customer Confirm

* Please fax the file to
ZeroPlus Technology after
signing .

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Content

1	Software Installation	3
2	User Interface	7
3	Operating Instructions	9

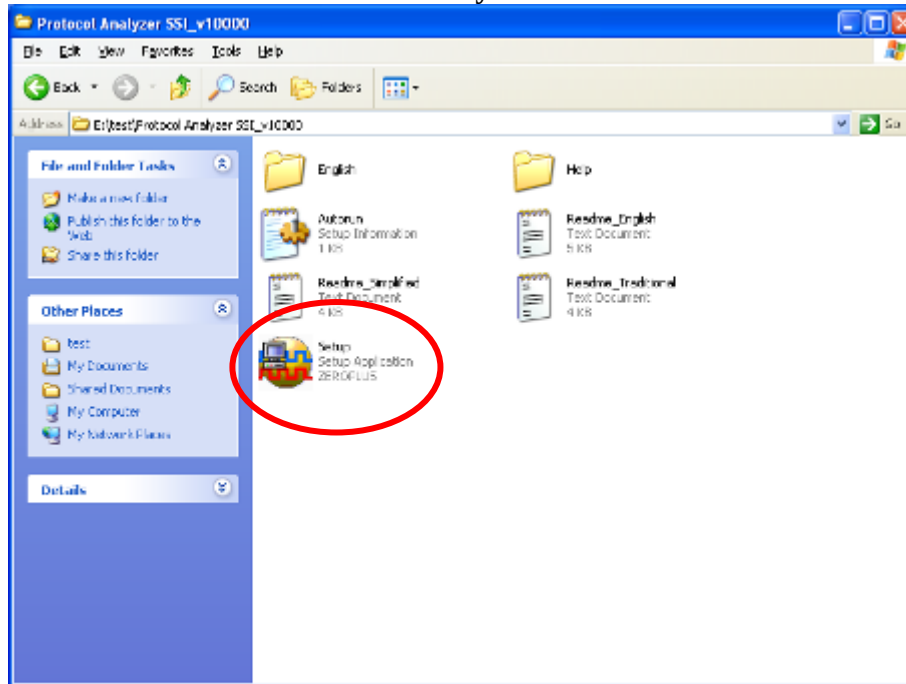


1 Software Installation

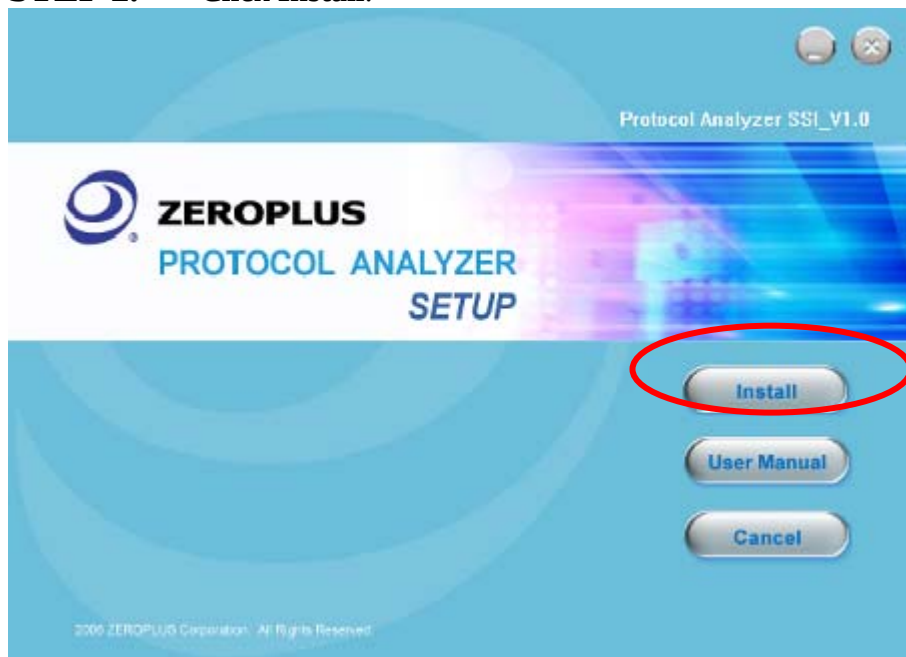
Please install the software as the following steps:

- ※ 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.

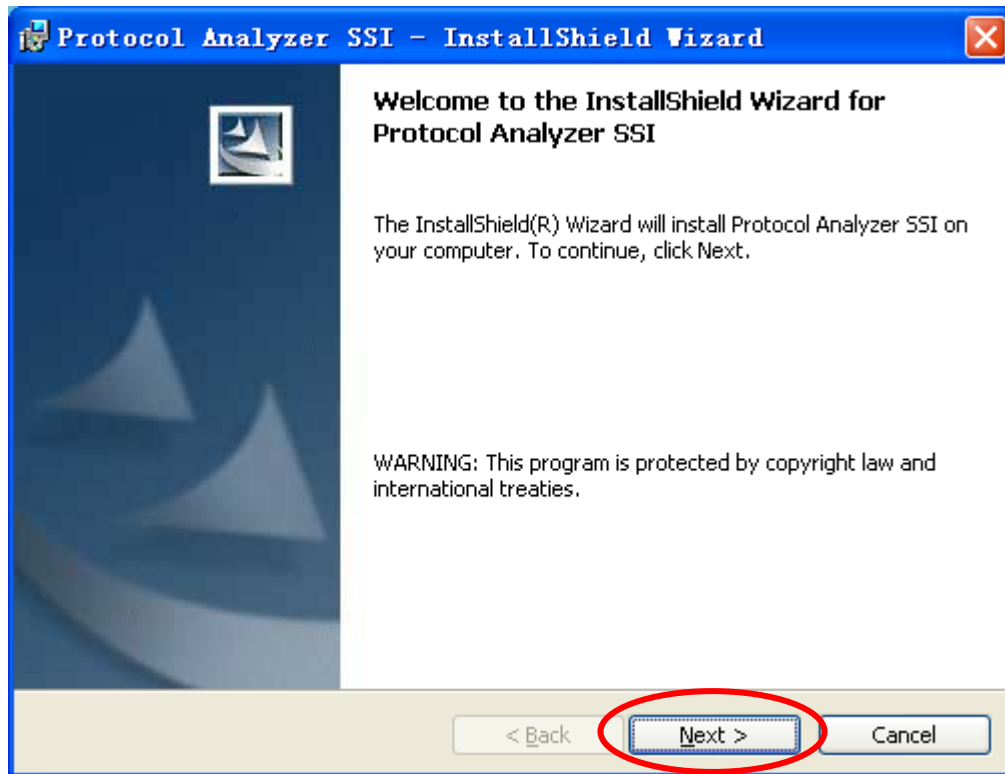


STEP 2. Click Install.

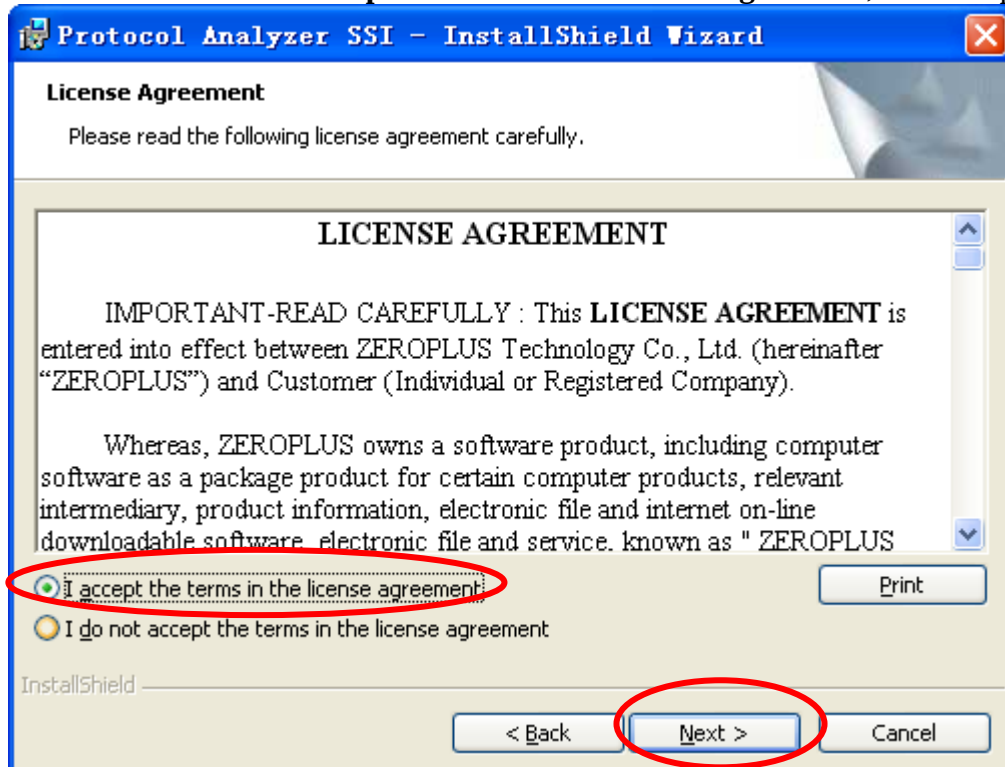




STEP 3. Click Next.



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**.

Protocol Analyzer SSI - InstallShield Wizard

Customer Information

Please enter your information.

User Name:
sunshine

Organization:
zeroplus

Install this application for:

☒ Anyone who uses this computer (all users)

☐ Only for me (sunshine)

InstallShield

< Back Next > Cancel

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

Protocol Analyzer SSI - InstallShield Wizard

Setup Type

Choose the setup type that best suits your needs.

Please select a setup type.

☒ **Complete**

 All program features will be installed. (Requires the most disk space.)

☐ **Custom**

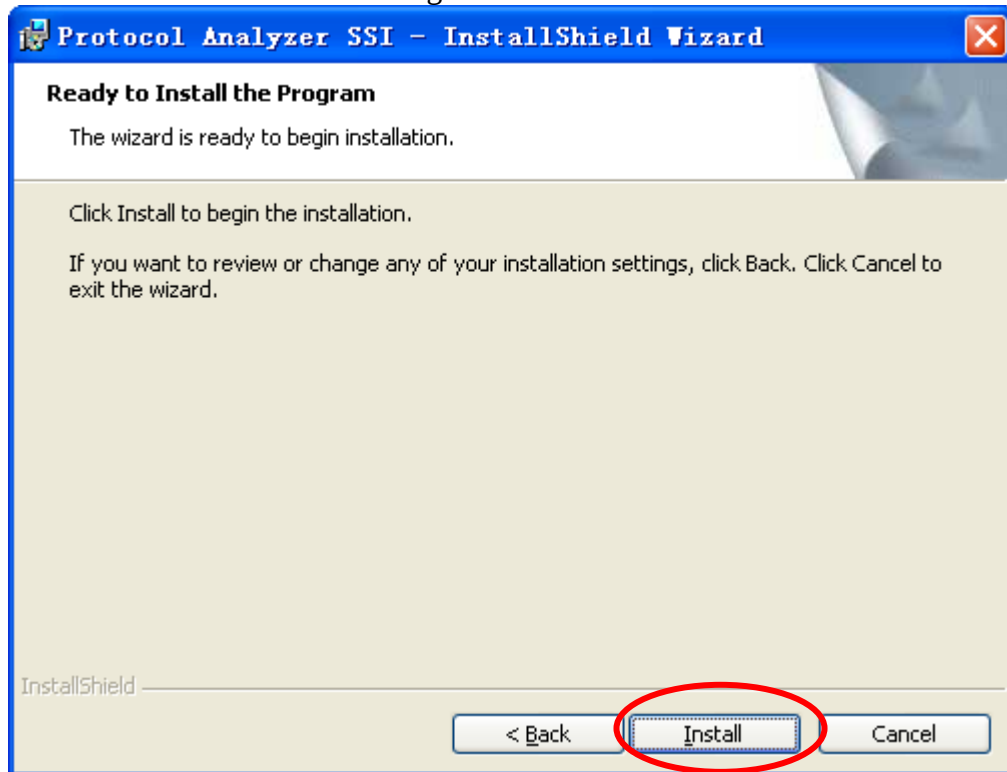
 Choose which program features you want installed and where they will be installed. Recommended for advanced users.

InstallShield

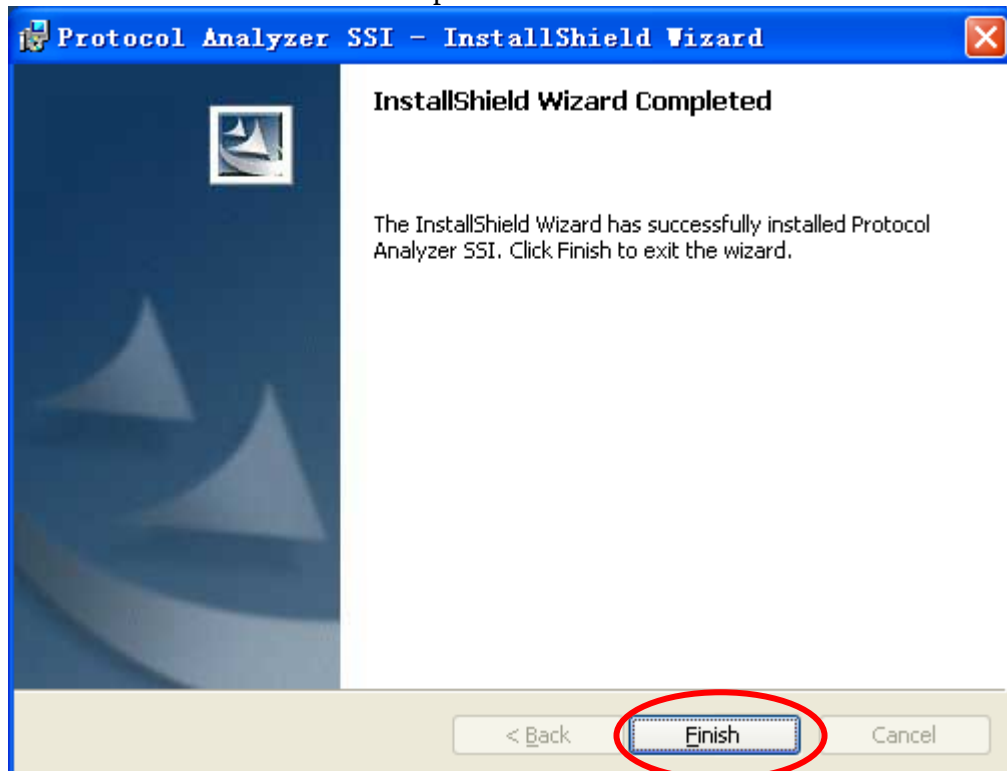
< Back Next > Cancel



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



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

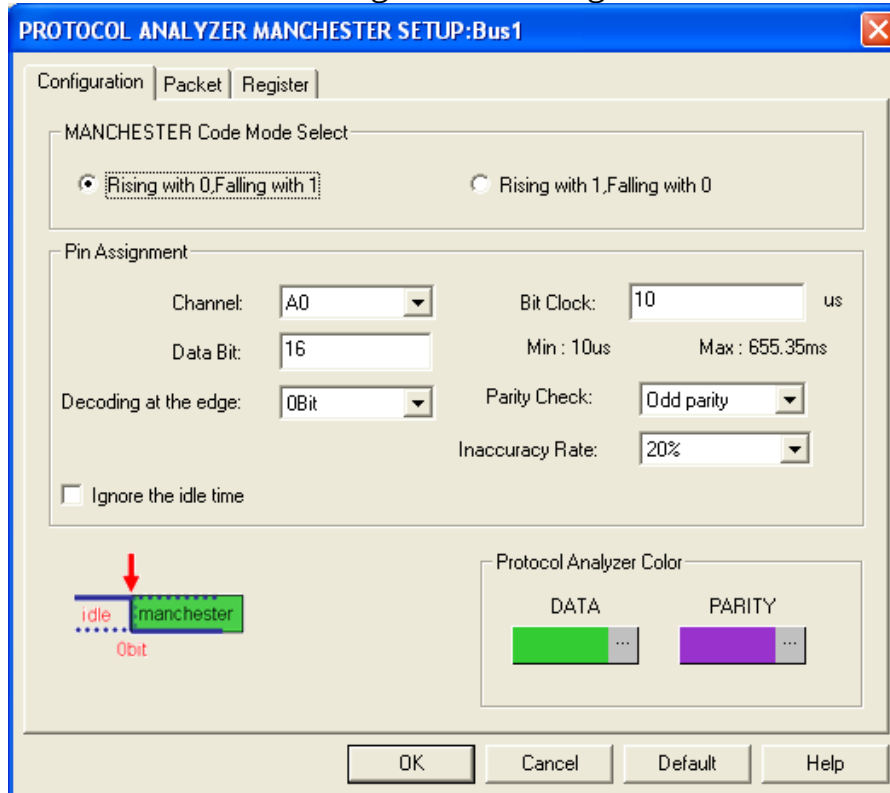




2 User Interface

Please refer to below images for option selections of setting **MANCHESTER**.

MANCHESTER Configuration Dialog Box



MANCHESTER Code Mode Select: There are two modes as the dialog box displaying; the default mode is Rising with 0, Falling with 1.

MANCHESTER Channel: Its default is A0.

Bit Clock: It is a time period of Bit on data (It doesn't include the time period on the beginning bit). Bit clock is used to ensure the start bit, and the postponed time must be longer than two Bit clock (This option is available when the postponed is ignored). It is unnecessary to proceed on Parity check, because the time period of the start bit is variable.

Data Bit: The data length can be set by users; the default is 16BIT.

Decoding at the edge: It can be set as start bit and non_start bit, but the default is 0Bit.

Parity Check: It can be set as Odd parity, Even parity or None parity. When the parity check is error, ERROR is displayed. When the parity check is correct, PARITY is displayed.

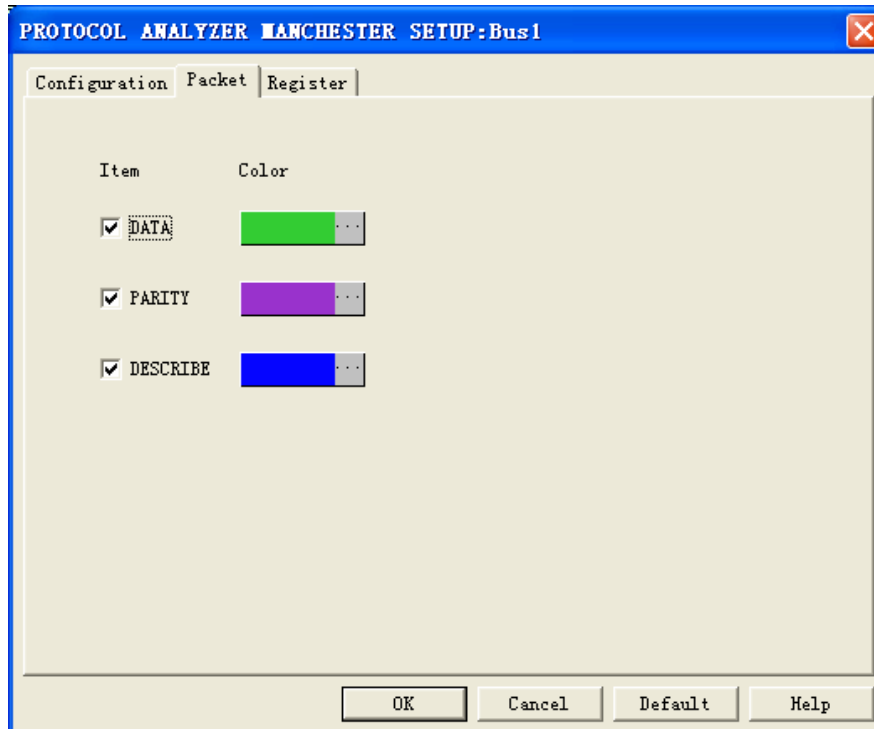
Ignore the idle time: When it is selected, the start bit will come after the end bit

Inaccuracy Rate: The time of start bit may be different from the requirement of the data bit, so the Inaccuracy Rate does not include the calculation of the start bit time.

Protocol Analyzer Color: The Protocol Analyzer Color can be varied.

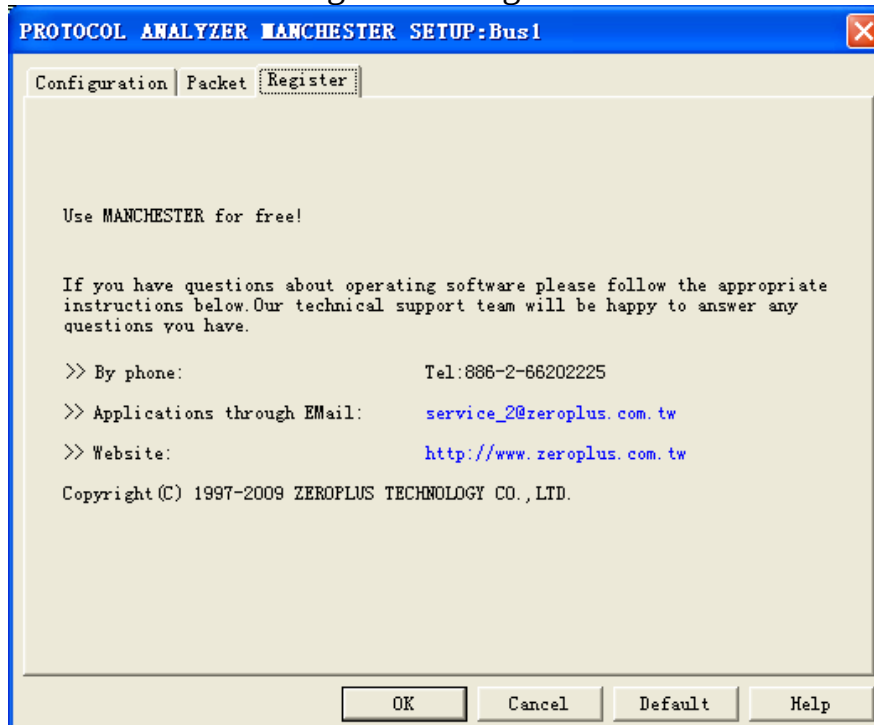


MANCHESTER Packet Dialog Box



Packet color can be varied by users.

MANCHESTER Register Dialog Box

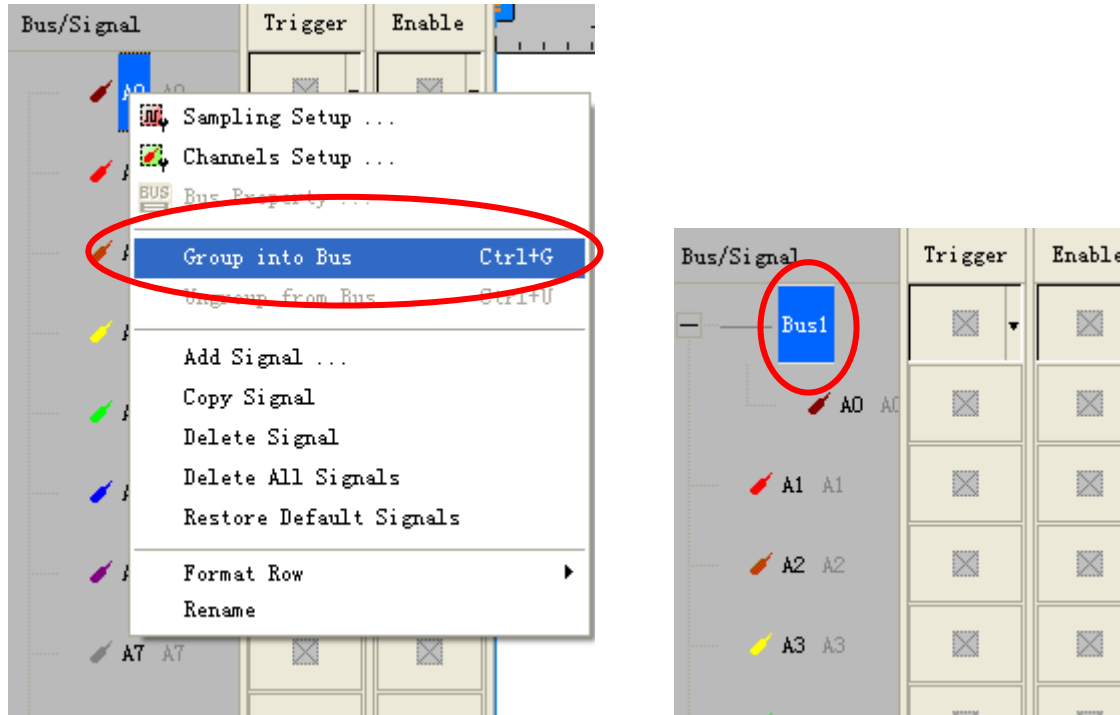


There is ZeroPlus company information. If users have questions about software operations, they can contact ZeroPlus by Telephone or Email.

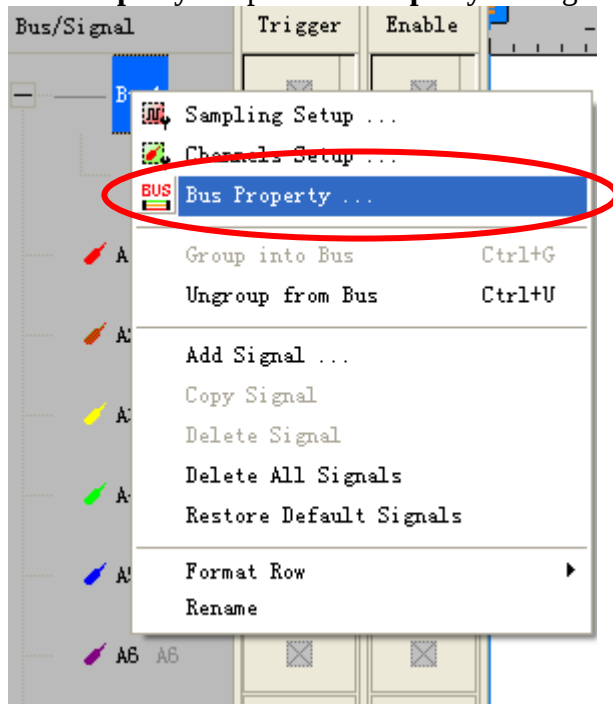


3 Operating Instructions

STEP 1. At First, group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse.

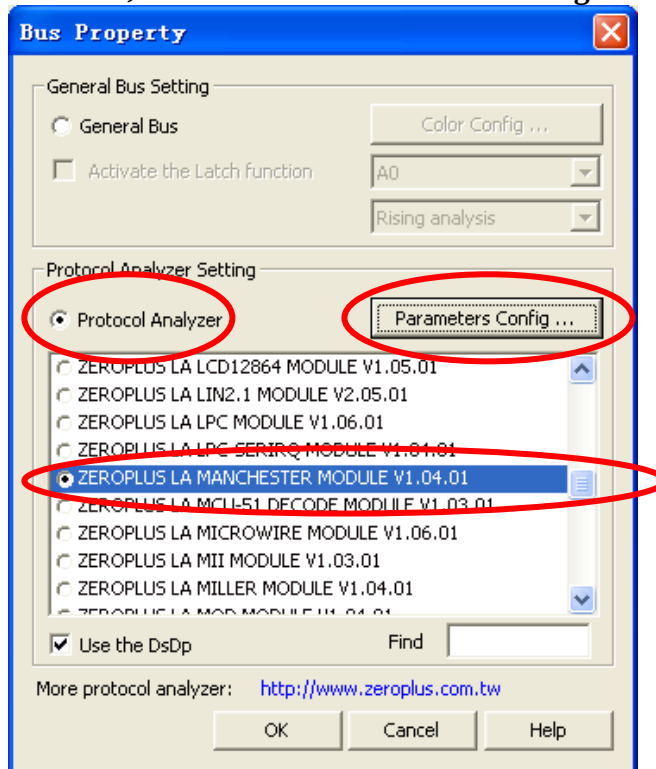


STEP 2. Selected **Bus 1**, then press **Right Key** on the mouse to list the menu. Next, click **Bus Property** to open **Bus Property** Dialog Box.

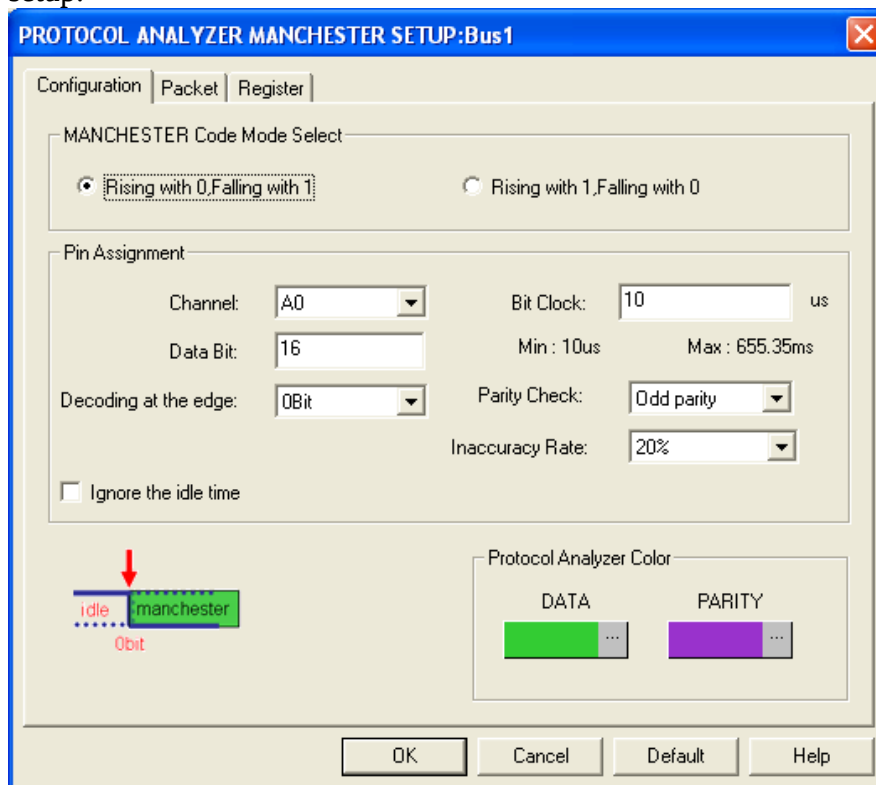




STEP 3. Select Protocol Analyzer. Select **ZEROPLUS LA MANCHESTER MODULE V1.04.01**, and next click **Parameters Configuration**.

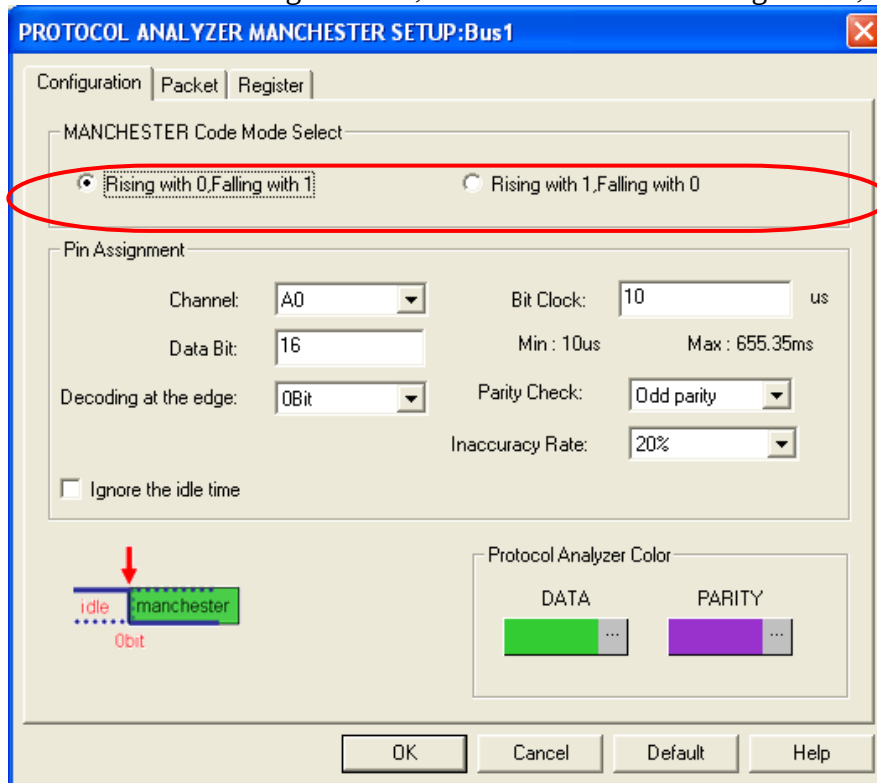


STEP 4. After Protocol Analyzer setting is completed, it turns to Configuration dialog box setup.

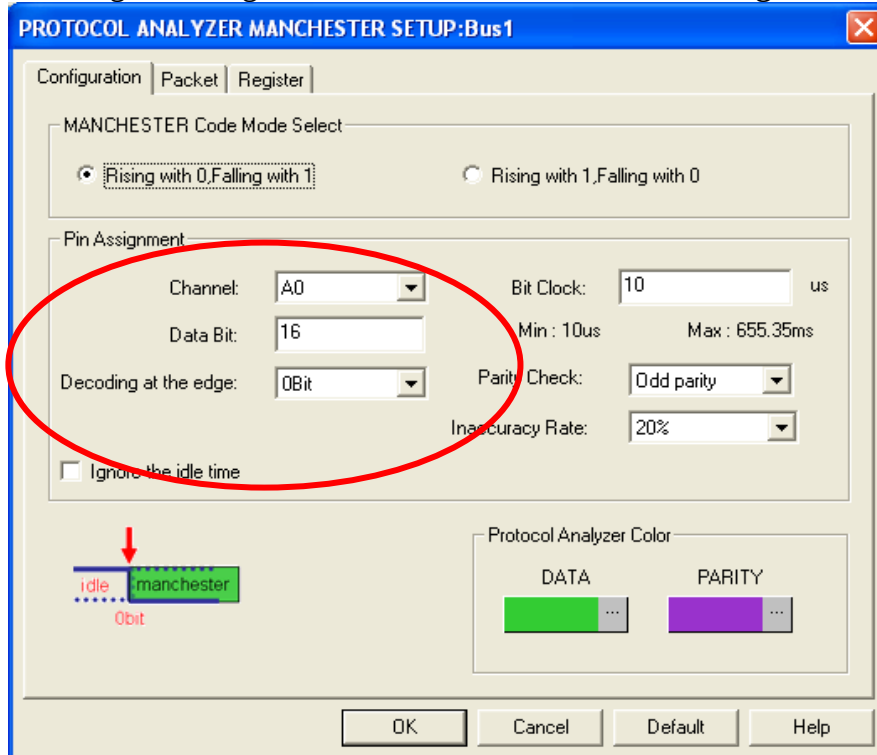




STEP 5. Select **MANCHESTER Code Mode Select** to ensure the code mode. There are two modes as the images below; the default mode is Rising with 0, Falling with 1.

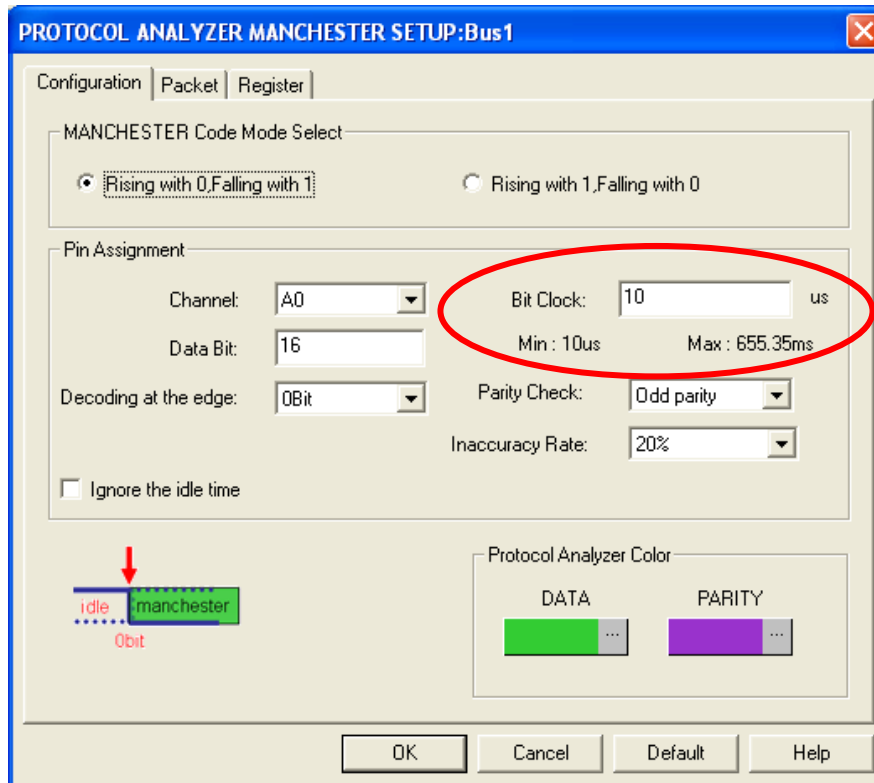


STEP 6. On the Pin Assignment, choose **MANCHESTER Channel** from the channel list; the default is A0, and then enter a value in the **Data Bit** to ensure the bit count, next select the decoding at the edge on the bit list; the default of **Decoding at the edge** is 0Bit.

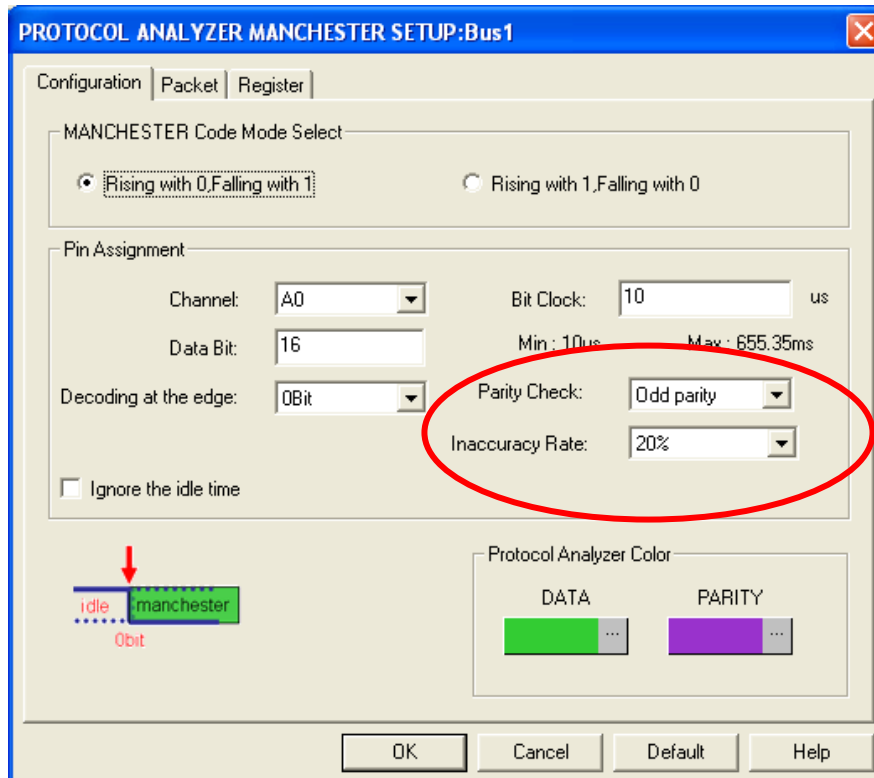




STEP 7. Enter a value in the bit clock; the range is 10us to 65.535ms and the default is 10us.

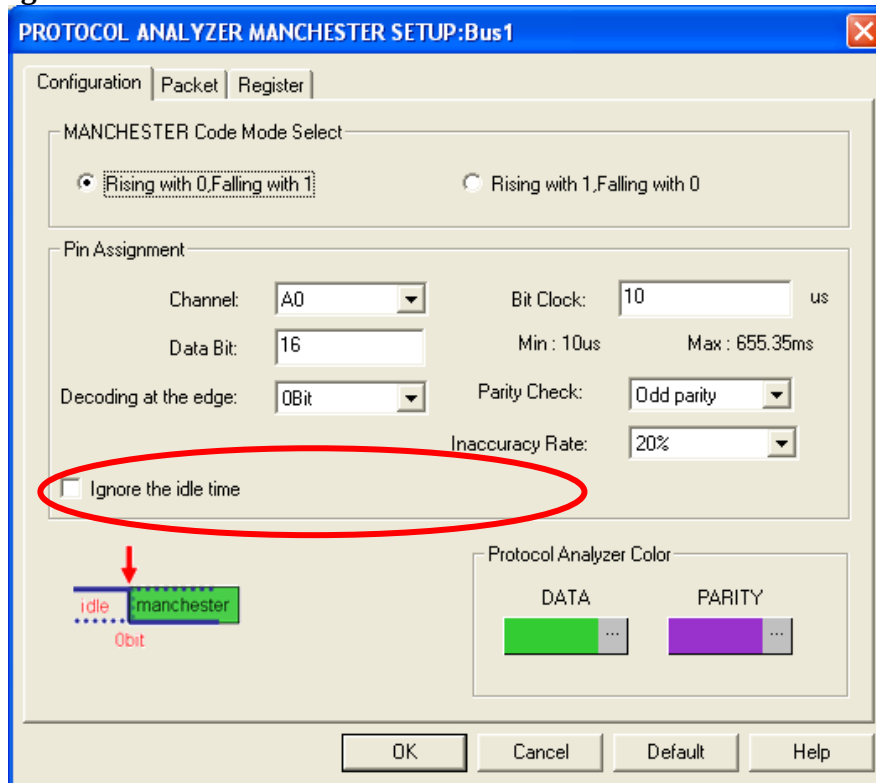


STEP 8. Set **Parity Check** and **Inaccuracy Rate**. Select values in the list of **Parity Check** and **Inaccuracy Rate**; the default of **Parity Check** is Odd parity and the default of **Inaccuracy Rate** is 20%.

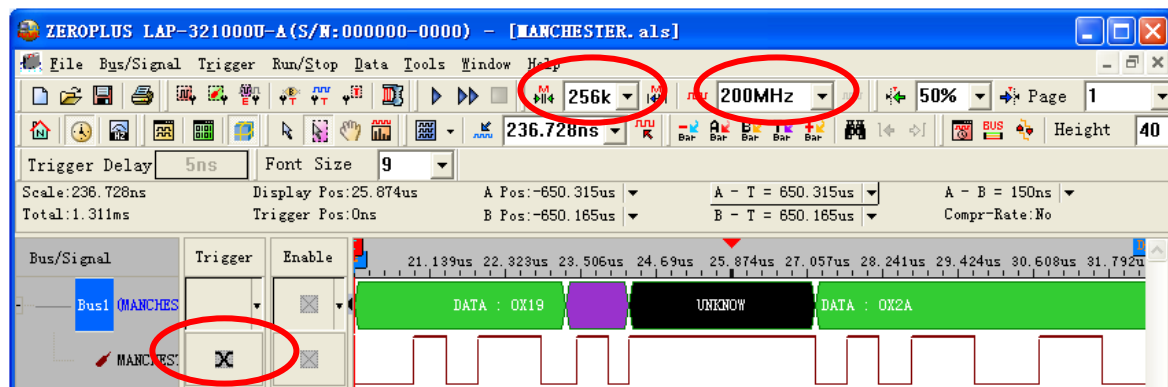




STEP 9. The protocol analyzer data analysis determines whether it is necessary to select **Ignore the idle time**.



STEP 10. Following picture shows the completion of the protocol analyzer decoding. The trigger condition is set as Either Edge; the memory depth is 256K; the sampling frequency is 200MHz.





Following picture shows the waveforms display with the packet list.

