



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

SPECIFICATION

MODEL: MOD Specification

PART NO : 026 _____

VERSION : V1.20 _____

Approver		Check	Design
GM	PM		

Customer Confirm

* Please fax the file to ZeroPlus Technology after signing.

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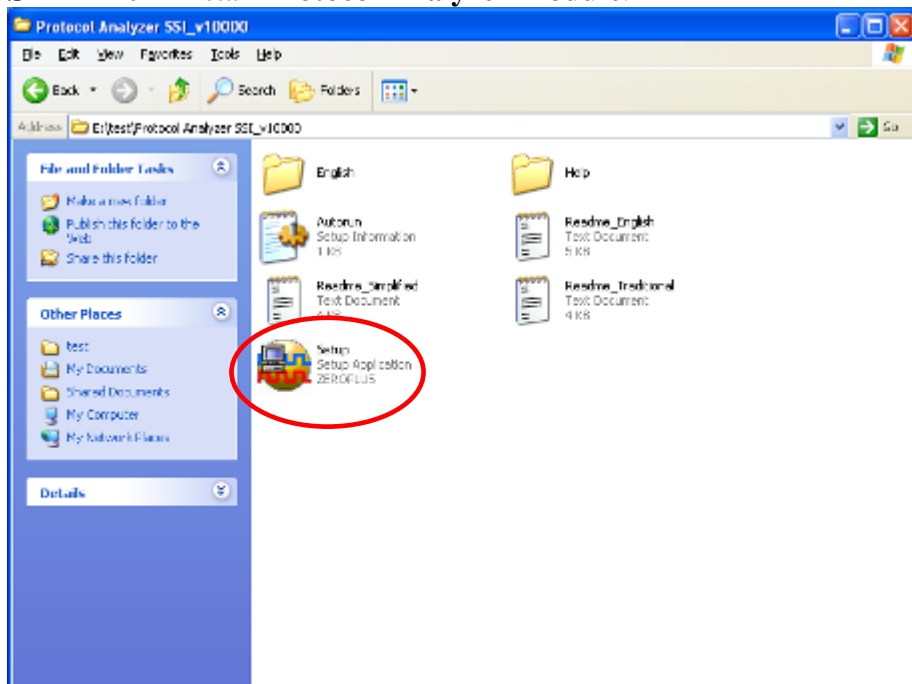
1 Software Installation

Please follow below steps to install the software.

※ Remark: 1.The installation steps for all protocol analyzers are the same; you can complete the installation by following procedures. The following is an example 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.

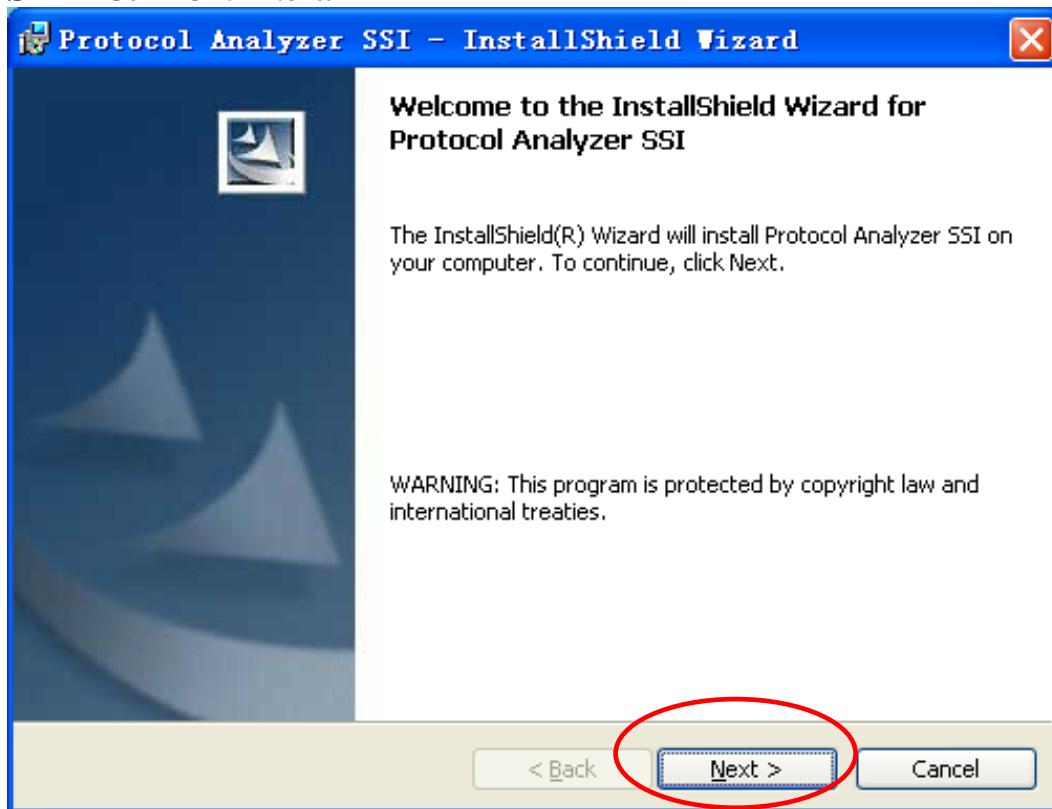


STEP 2. Click Install.

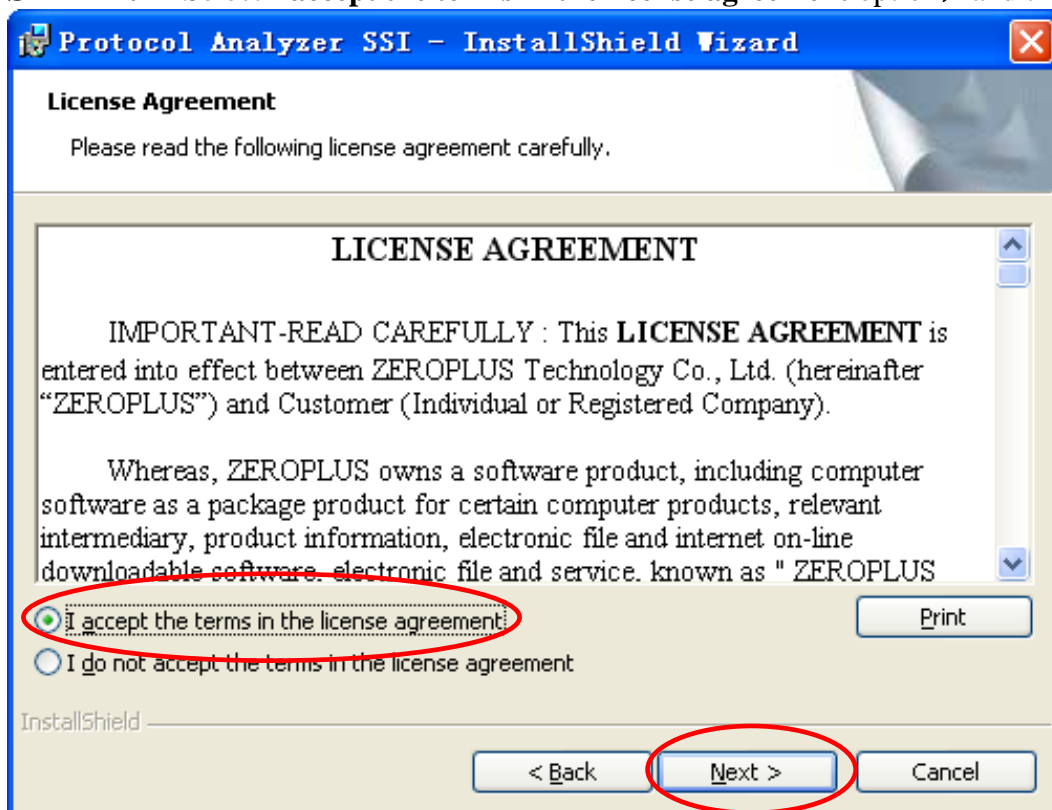




STEP 3. Click Next.



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





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

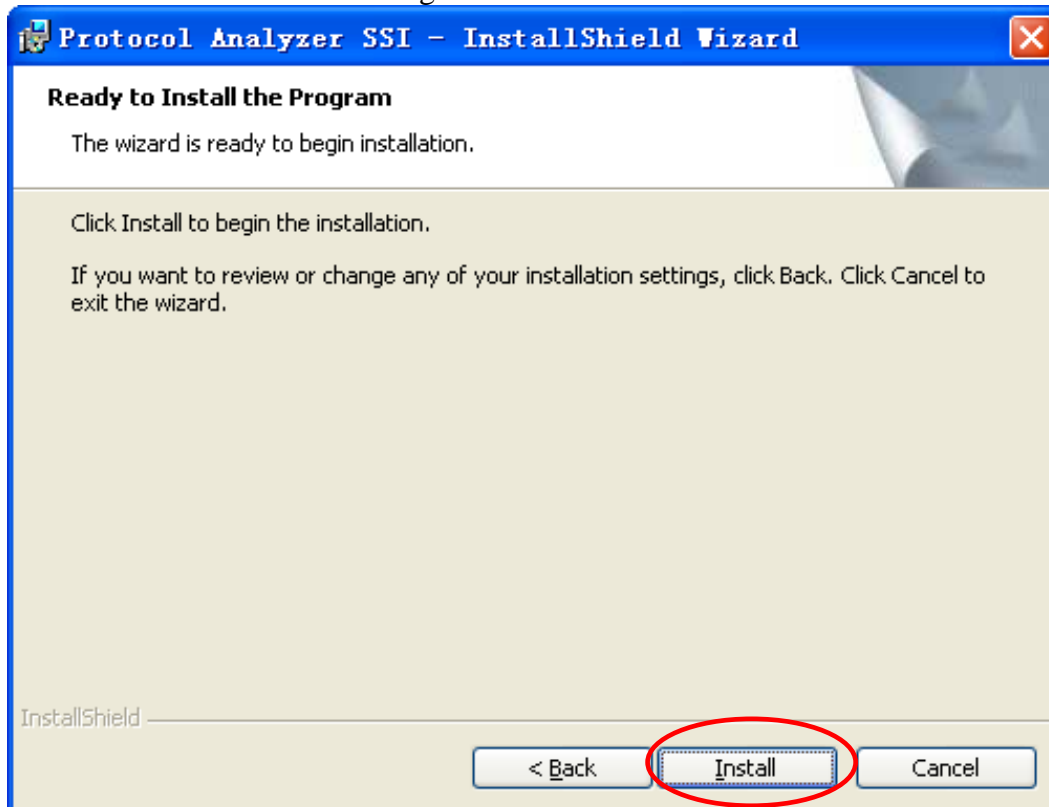
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It has a "Customer Information" section with the instruction "Please enter your information." Below this, there are two text input fields: "User Name:" with the text "sunshine" and "Organization:" with the text "zeroplus". There are two radio buttons under the heading "Install this application for:". The first radio button is selected and labeled "Anyone who uses this computer (all users)". The second radio button is labeled "Only for me (微软用户)". At the bottom, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is circled in red.

STEP 6. At first, select **Complete** option, and then click **Next**.

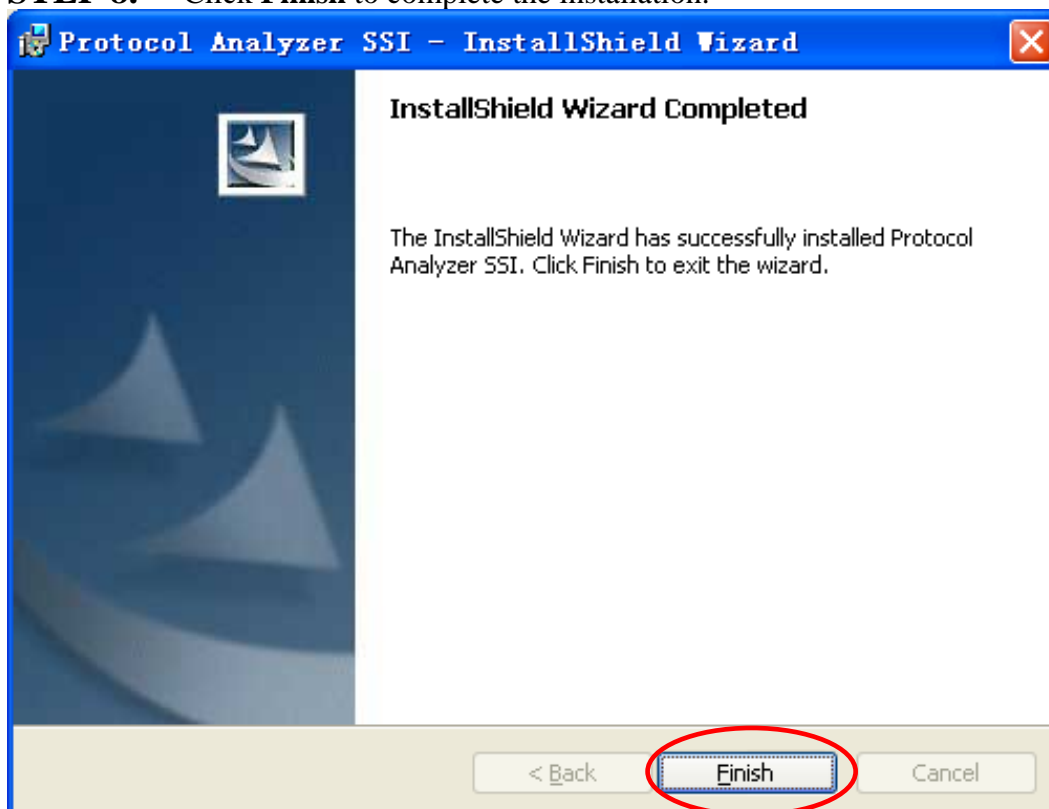
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It has a "Setup Type" section with the instruction "Choose the setup type that best suits your needs." Below this, there are two radio buttons. The first radio button is selected and labeled "Complete". It has a description: "All program features will be installed. (Requires the most disk space.)". The second radio button is labeled "Custom". It has a description: "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 >", and "Cancel". The "Next >" button is circled in red.



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



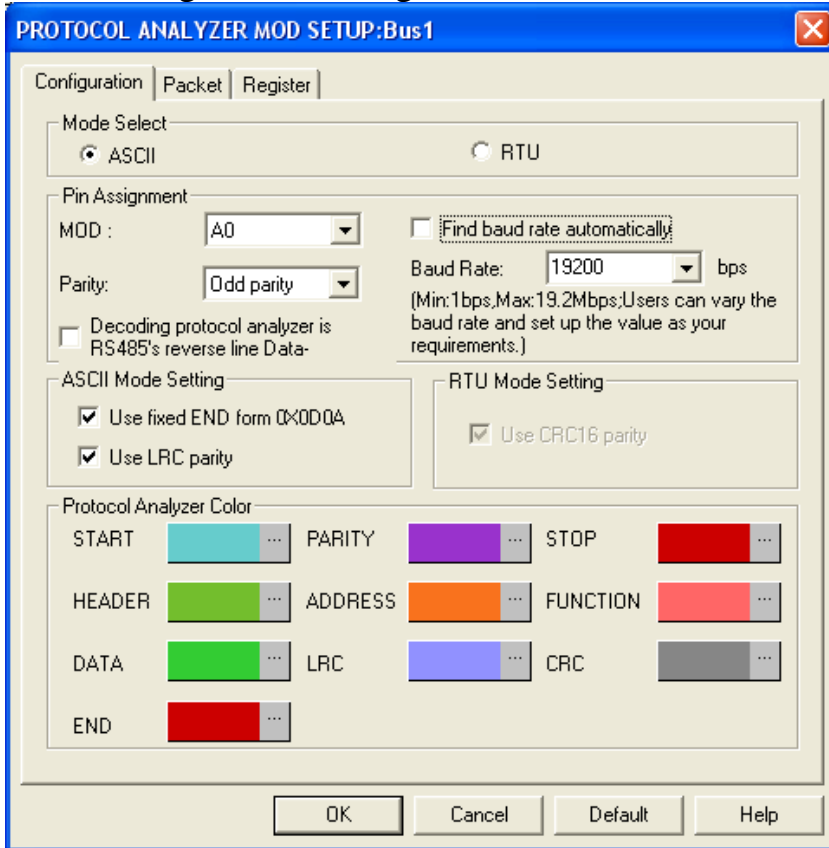
STEP 8. Click **Finish** to complete the installation.



2 User Interface

In the configuration, please refer to the below images to select options of setting MOD module.

MOD Configuration Dialog Box



Mode Select:

There are two decoding modes to be selected; they are ASCII mode and RTU mode.

Pin Assignment:

MOD: The MOD channel can be selected from the dropdown menu.

Decoding protocol analyzer is RS485's reverse line Data-.

Notice: If you select "Decoding protocol analyzer is RS485's reverse line Data-" option, when you decode the protocol analyzer, you should reverse all values and then explain the decoding in the original way. All reversed values include: START, END, DATA, PARITY, etc. The default is not selected.

Baud Rate: The baud rate can be selected from the dropdown menu or filled within 1200~19200000BPS. If users select the option "Find baud rate automatically", the program will judge the baud rate automatically to display the value of the baud rate on the dialog box.

Parity: The parity can be selected from the dropdown menu; the options are: Odd parity, Even parity and None parity.

ASCII\RTU Mode Setting:

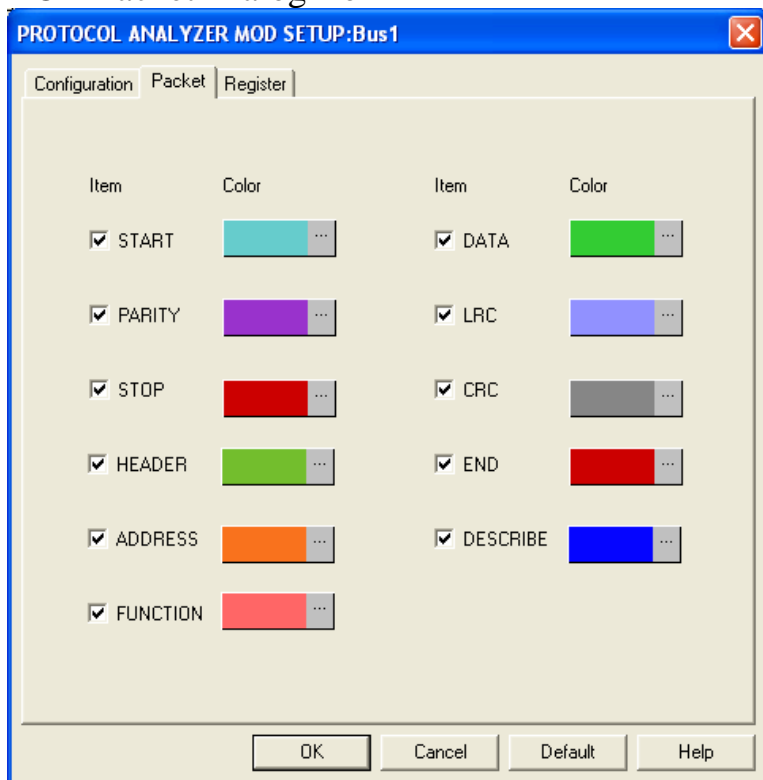
In the ASCII mode, you can select whether to use the fixed END mode, whose Hexadecimal indicates in 0X0D0A or to use LRC parity.

In the RTU mode, you can select Use CRC16 parity.

Protocol Analyzer Color:

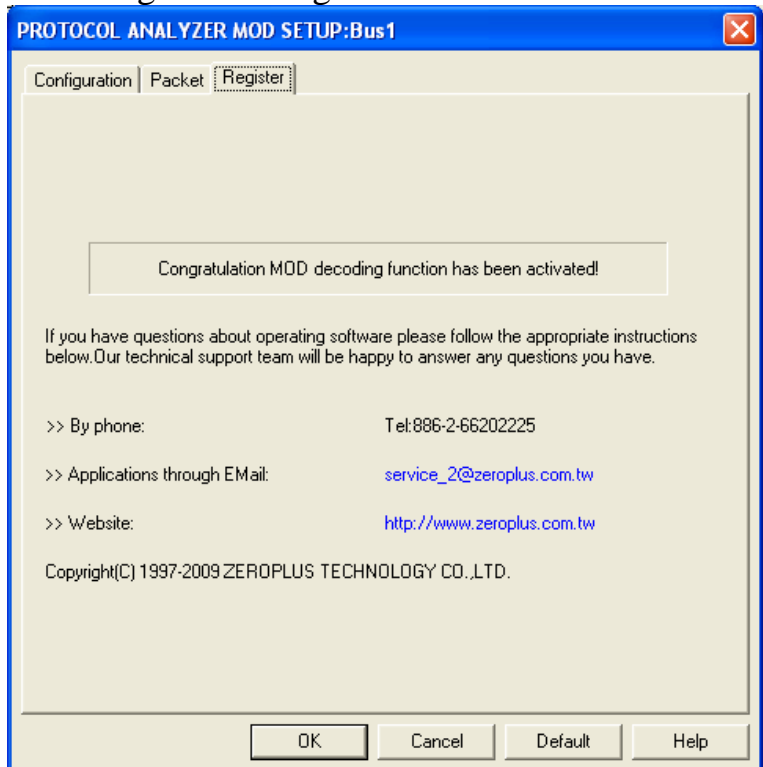
The protocol analyzer color can be varied by users, such as the color of START, PARITY, STOP, HEADER, ADDRESS, FUNCTION, DATA, LRC, CRC, END.

MOD Packet Dialog Box



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

MOD Register Dialog Box

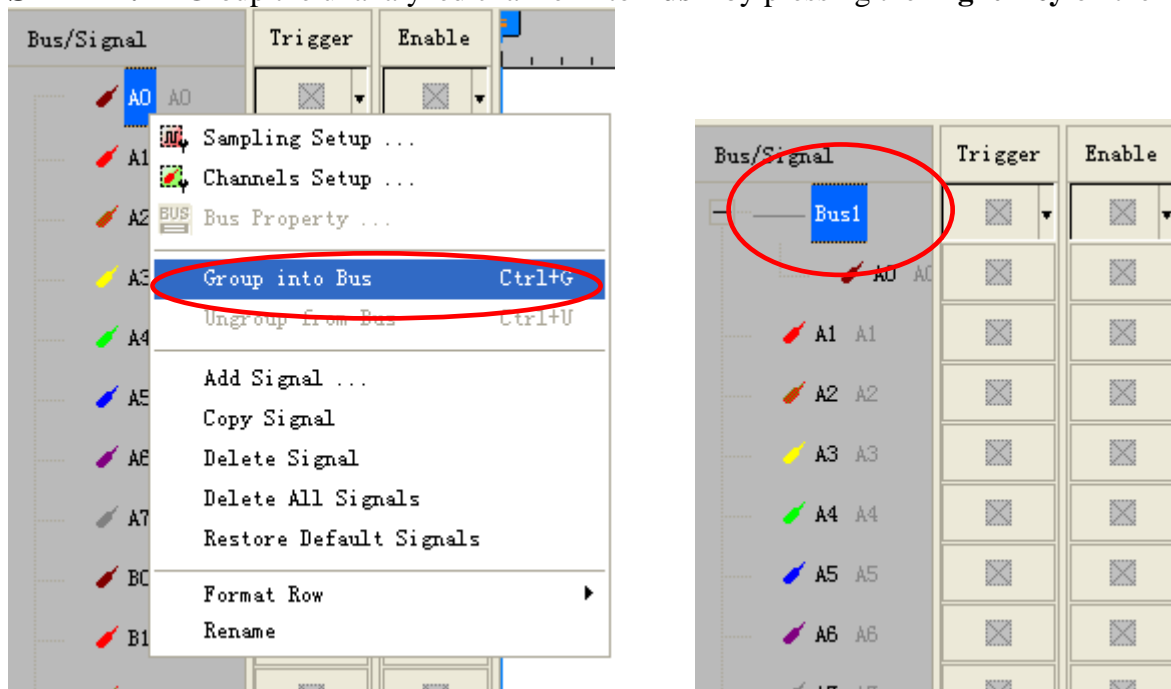


There is ZeroPlus company information. If you have questions about software operations, you can contact ZeroPlus by Telephone or Email.

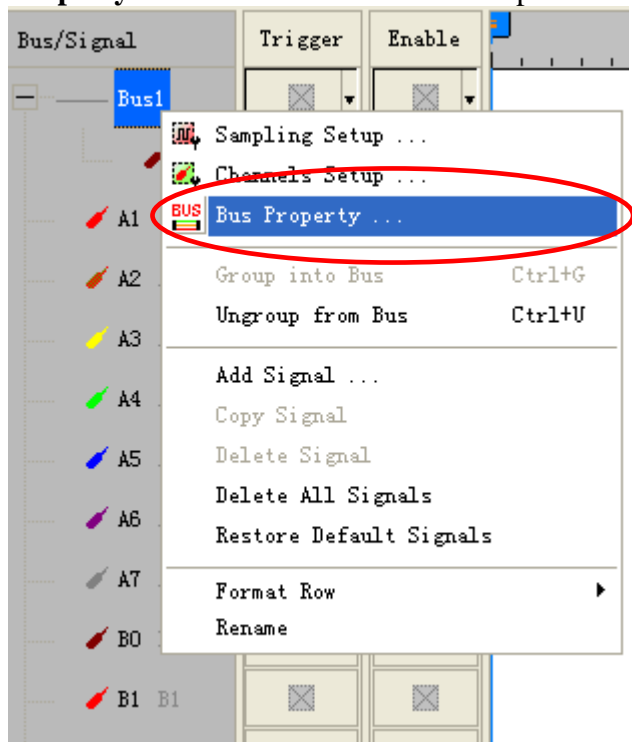


3 Operating Instructions

STEP 1. Group the unanalyzed channel into **Bus 1** by pressing the **Right Key** on the mouse.

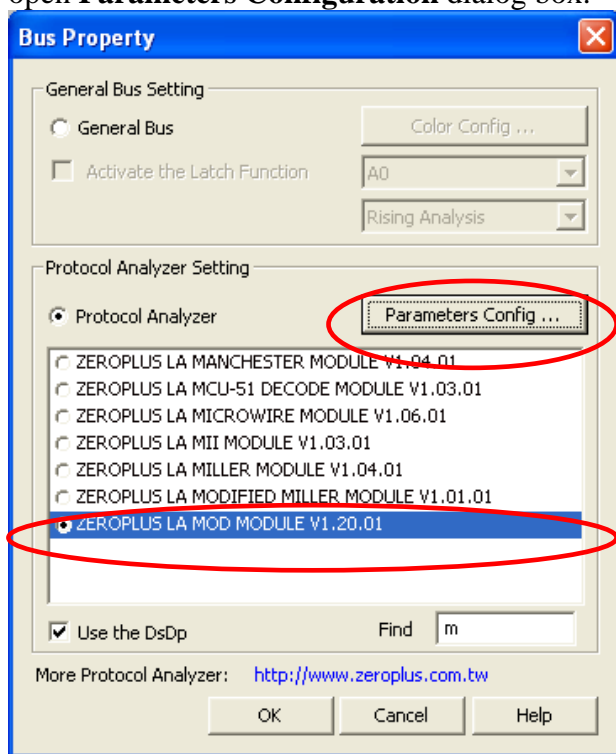


STEP 2. Select **Bus1**, then press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** bar on the toolbar to open **Bus Property** dialog box.

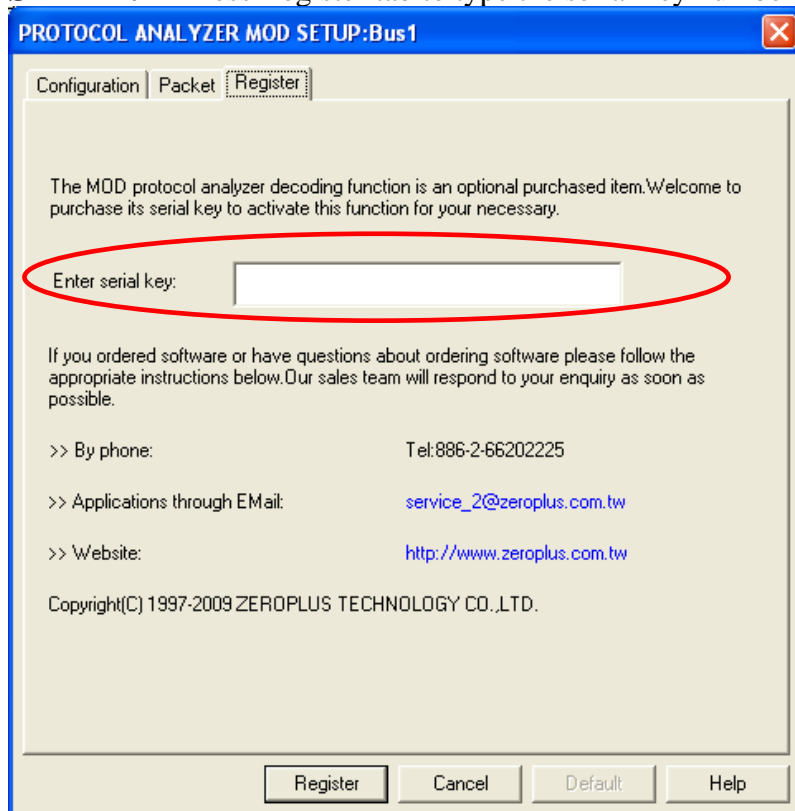




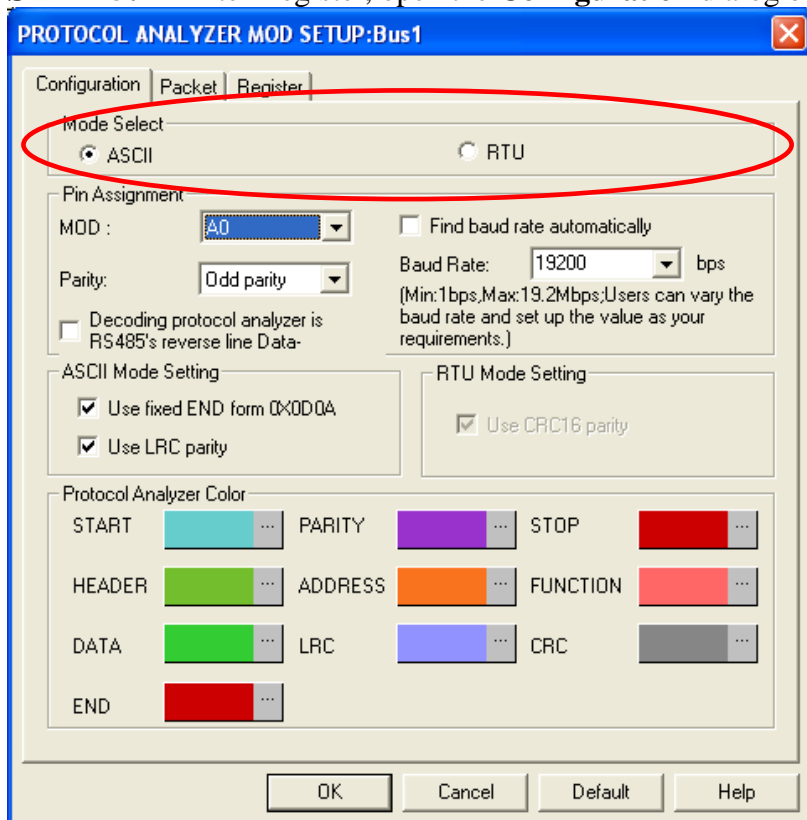
STEP 3. For Protocol Analyzer MOD Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA MOD MODULE V1.20.01**. Next, click **Parameters Configuration** to open **Parameters Configuration** dialog box.



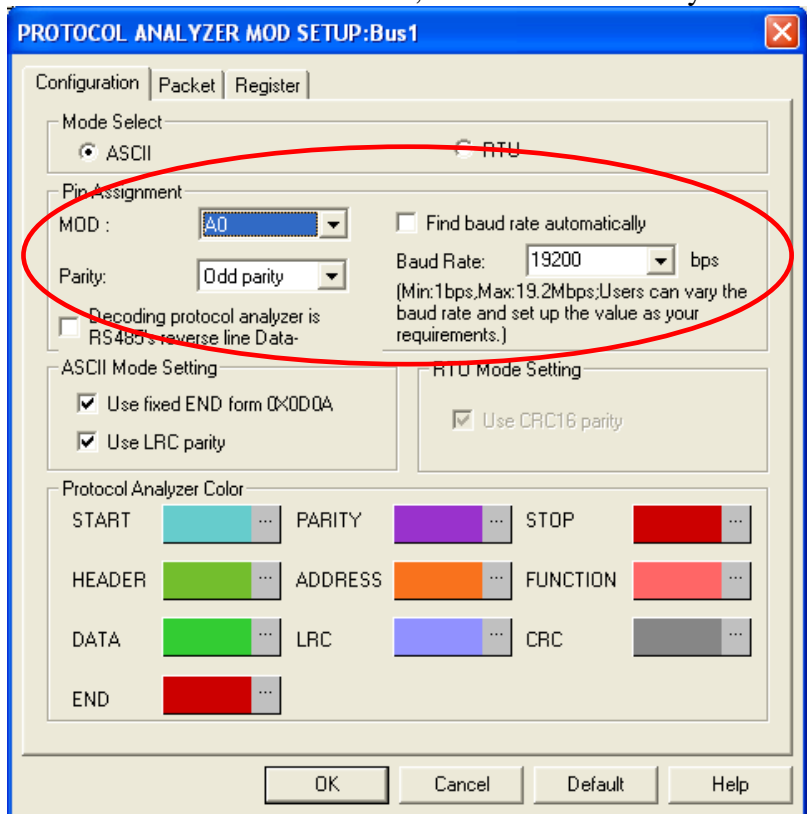
STEP 4. Press Register tab to type the serial key number of MOD. Then press **Register**.



STEP 5. After Register, open the **Configuration** dialog box and then select the decoding mode.



STEP 6. Set MOD channel, Baud Rate and Parity in Pin Assignment.





STEP 7. Set ASCII/RTU Mode.

PROTOCOL ANALYZER MOD SETUP:Bus1

Configuration | Packet | Register

Mode Select
☒ ASCII ☐ RTU

Pin Assignment
MOD : A0 ☐ Find baud rate automatically
Parity: Odd parity Baud Rate: 19200 bps
(Min:1bps,Max:19.2Mbps;Users can vary the baud rate and set up the value as your requirements.)
☐ Decoding protocol analyzer is RS485's reverse line Data-

ASCII Mode Setting
☒ Use fixed END form 0X0D0A
☒ Use LRC parity

RTU Mode Setting
☒ Use CRC16 parity

Protocol Analyzer Color
START PARITY STOP
HEADER ADDRESS FUNCTION
DATA LRC CRC
END

OK Cancel Default Help

STEP 8. Set Protocol Analyzer Color.

PROTOCOL ANALYZER MOD SETUP:Bus1

Configuration | Packet | Register

Mode Select
☒ ASCII ☐ RTU

Pin Assignment
MOD : A0 ☐ Find baud rate automatically
Parity: Odd parity Baud Rate: 19200 bps
(Min:1bps,Max:19.2Mbps;Users can vary the baud rate and set up the value as your requirements.)
☐ Decoding protocol analyzer is RS485's reverse line Data-

ASCII Mode Setting
☒ Use fixed END form 0X0D0A
☒ Use LRC parity

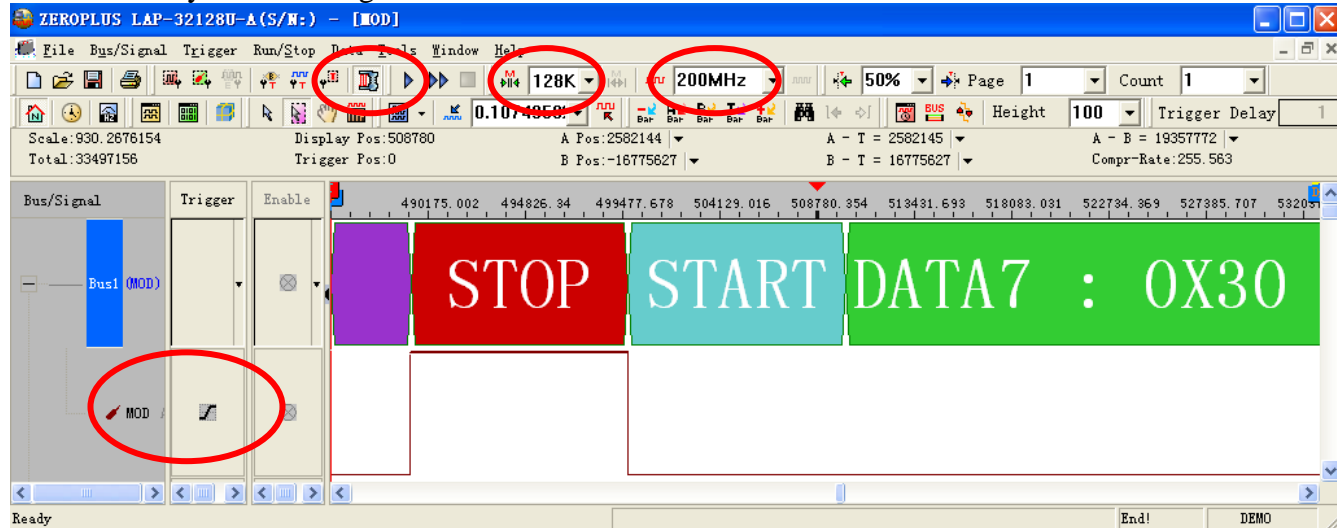
RTU Mode Setting
☒ Use CRC16 parity

Protocol Analyzer Color
START PARITY STOP
HEADER ADDRESS FUNCTION
DATA LRC CRC
END

OK Cancel Default Help

STEP 9. Following pictures show the completion of the protocol analyzer decoding and the packet list. The trigger condition is set as Rising Edge; the memory depth is 128K; the sampling frequency is 200MHz; the compression is activated.

Protocol Analyzer Decoding



Packet List

