



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

SPECIFICATION

MODEL: 1-WIRE Specification

PART NO : 004 _____

VERSION : V1.09

Approver		Check	Design
GM	PM		

Customer Confirm

* Please fax the file to Zeroplus Technology after signing.

2F, NO.123, Jian Ba Rd,
Chung Ho City, Taipei Hsian, R.O.C.

Tel: +886-2-66202225
Fax: +886-2-22234362



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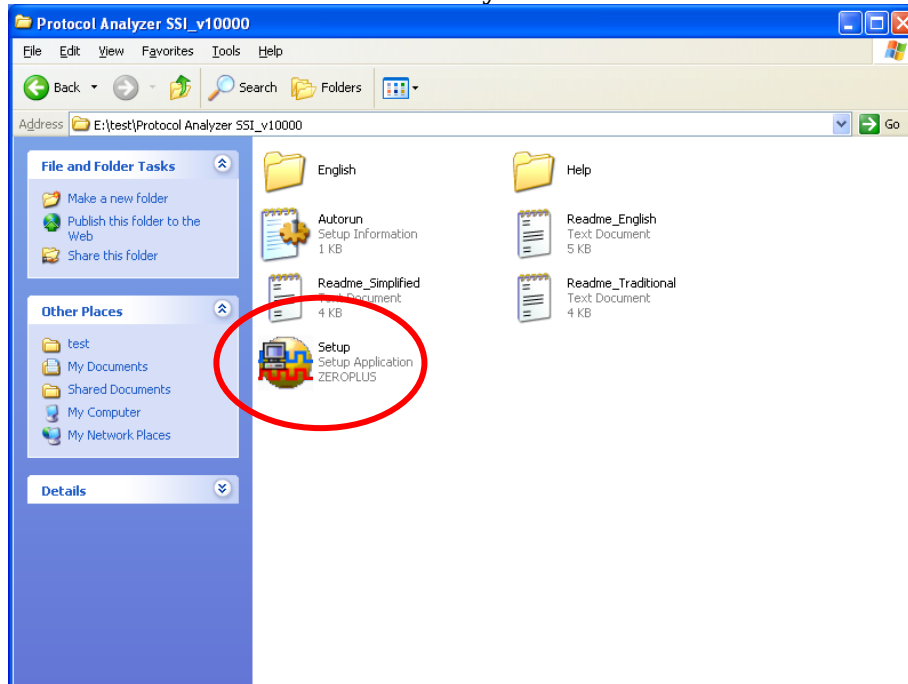


1 Software Installation

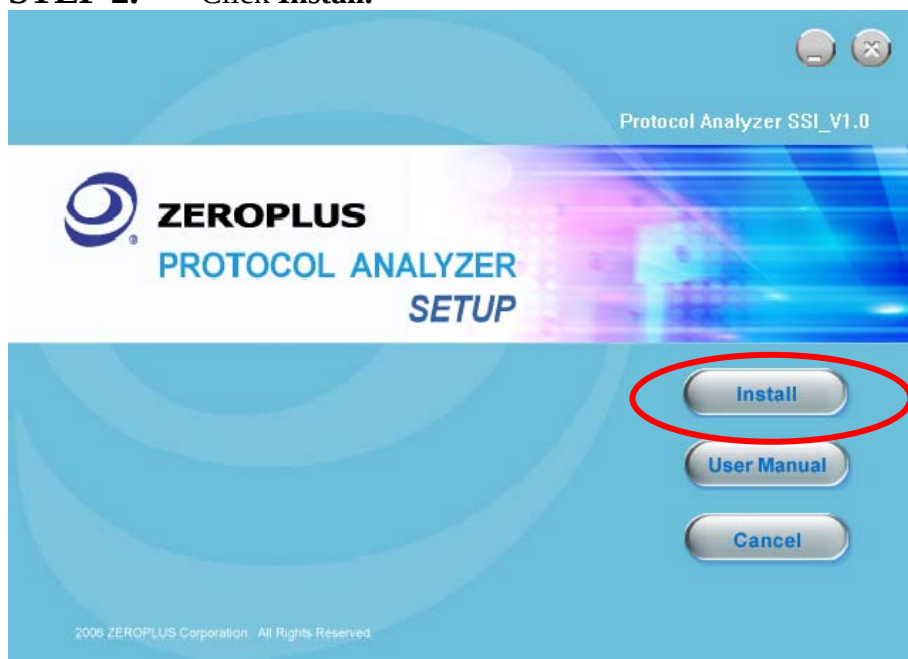
Please install the software as the following steps:

- ※ 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

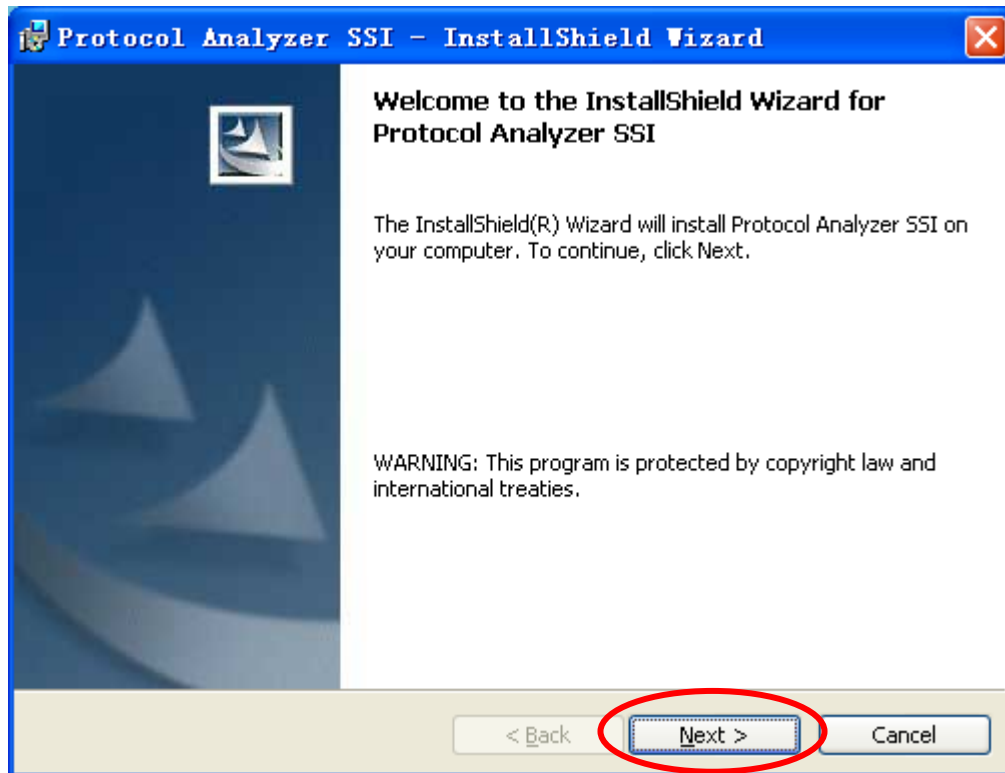


STEP 2. Click Install.

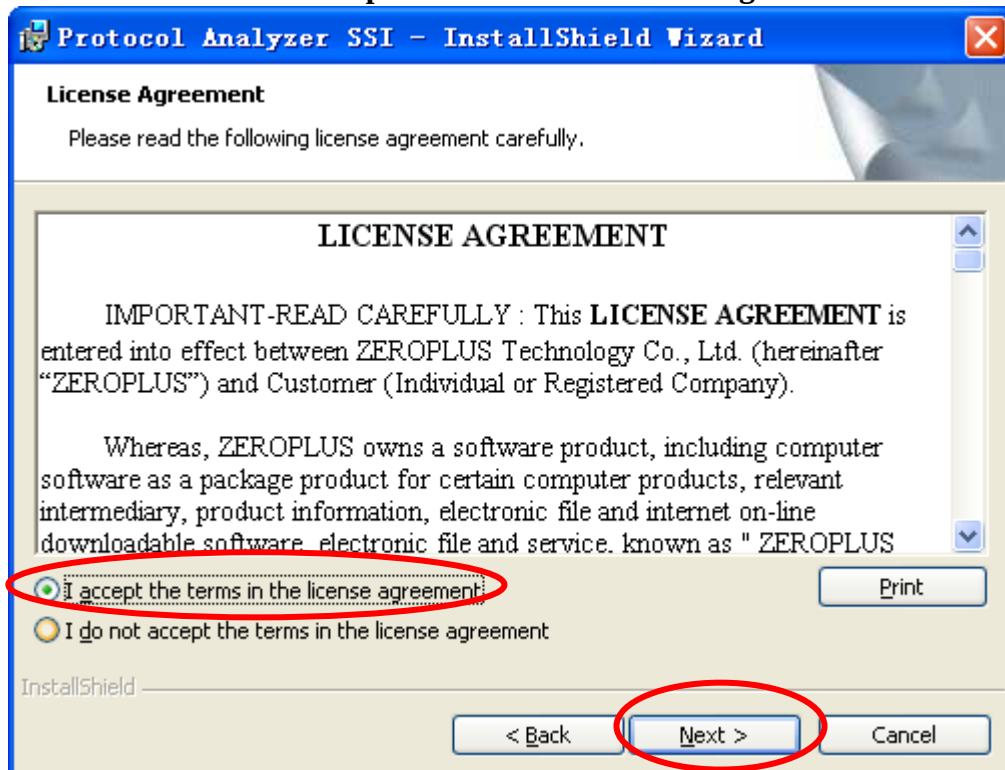




STEP 3. Click Next.



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**.

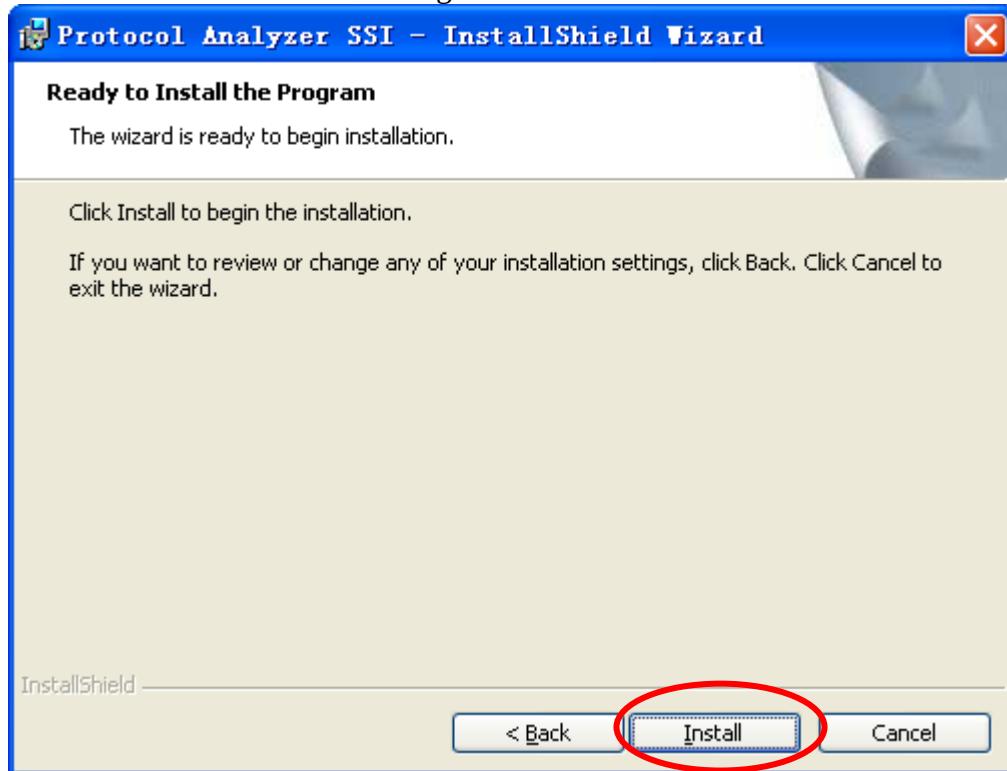
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It has a "Customer Information" section with the instruction "Please enter your information." Below this, there are two text input fields: "User Name:" with the value "sunshine" and "Organization:" with the value "zeroplus". There is also a section "Install this application for:" with two radio button options: "Anyone who uses this computer (all users)" (which is selected) and "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**.

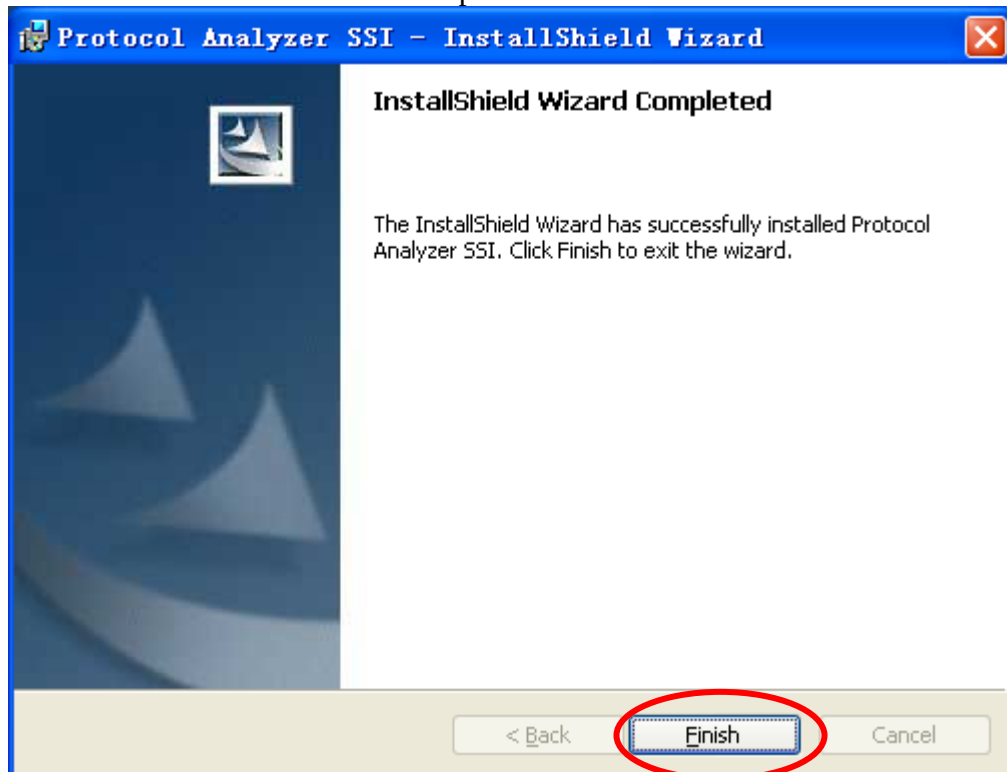
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It has a "Setup Type" section with the instruction "Choose the setup type that best suits your needs." Below this, there is a text input field "Please select a setup type." There are two radio button options: "Complete" (which is selected) and "Custom". The "Complete" option has a description: "All program features will be installed. (Requires the most disk space.)" and is accompanied by a small icon of a computer with a red 'X'. The "Custom" option has a description: "Choose which program features you want installed and where they will be installed. Recommended for advanced users." and is accompanied by a small icon of a computer with a red 'X'. 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.

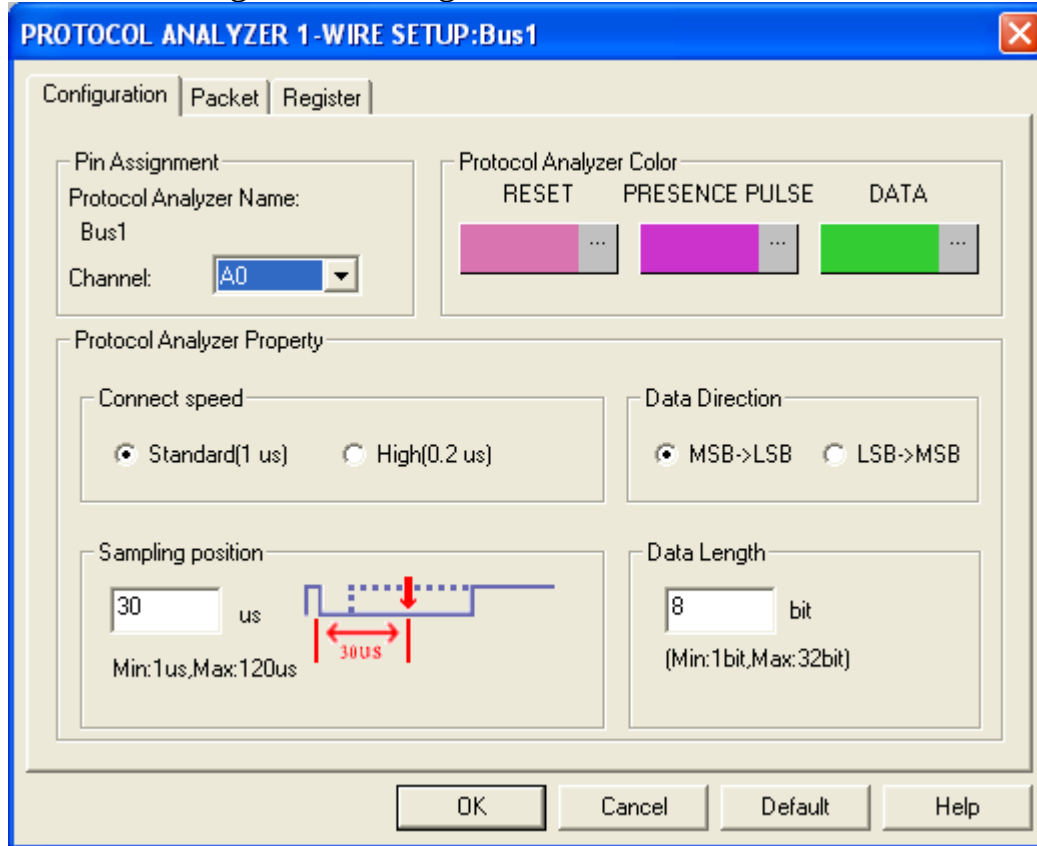




2 User Interface

Please refer to the below images about the **1-WIRE** setup.

1-WIRE Configuration dialog box



Pin Assignment: Because 1-WIRE has only one channel as the signal line, the field setup has only two kinds.

Protocol Analyzer Name: Protocol Analyzer Name is OWIO.

Channel: The default is A0.

Data Direction:

MSB->LSB: From high position to low position

LSB->MSB: From low position to high position

Connect speed:

1.Standard: 1us

2.High: 0.2us

Sampling position: 30us

Data Length: 8bit

Protocol Analyzer Color:

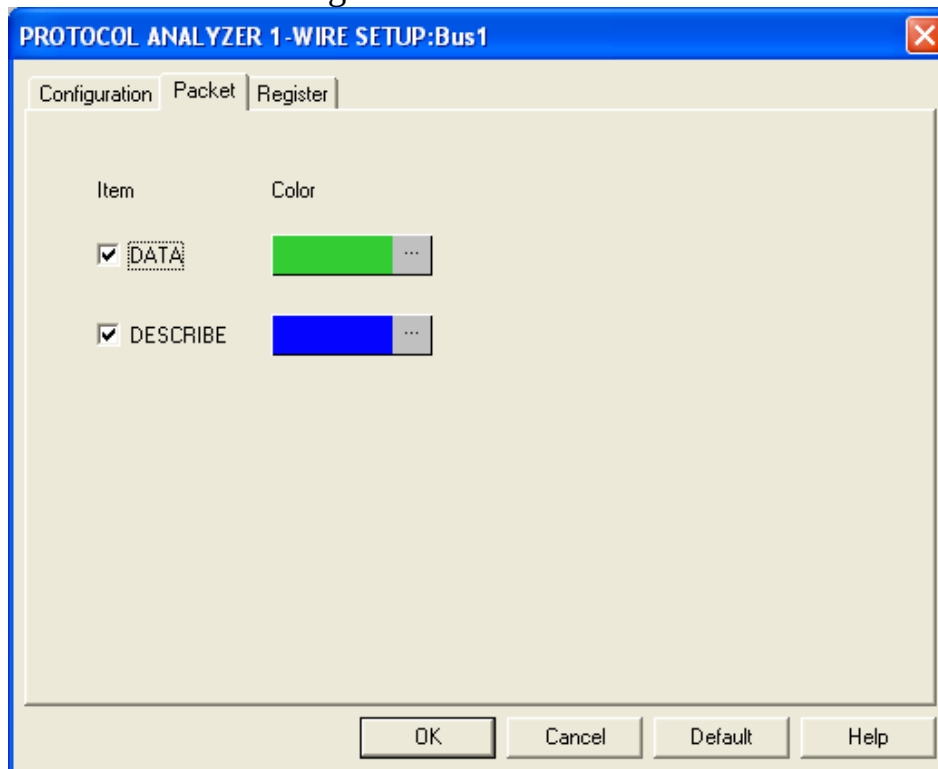
1.RESET

2.PRESENCE PULSE

3.DATA

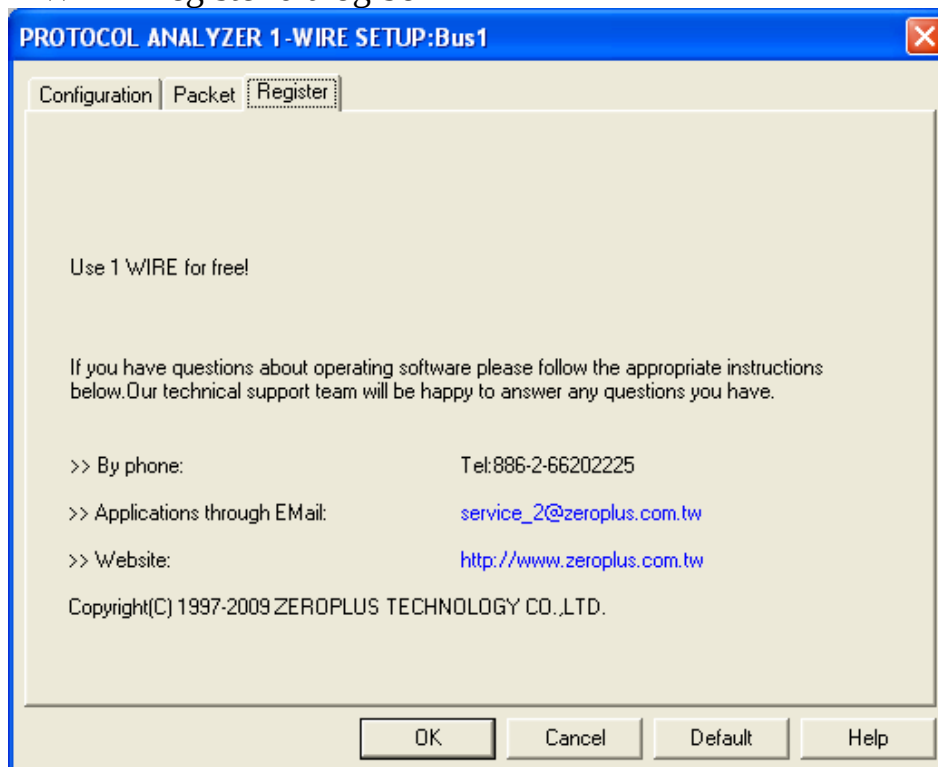


1-WIRE Packet dialog box



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

1-WIRE Register dialog box

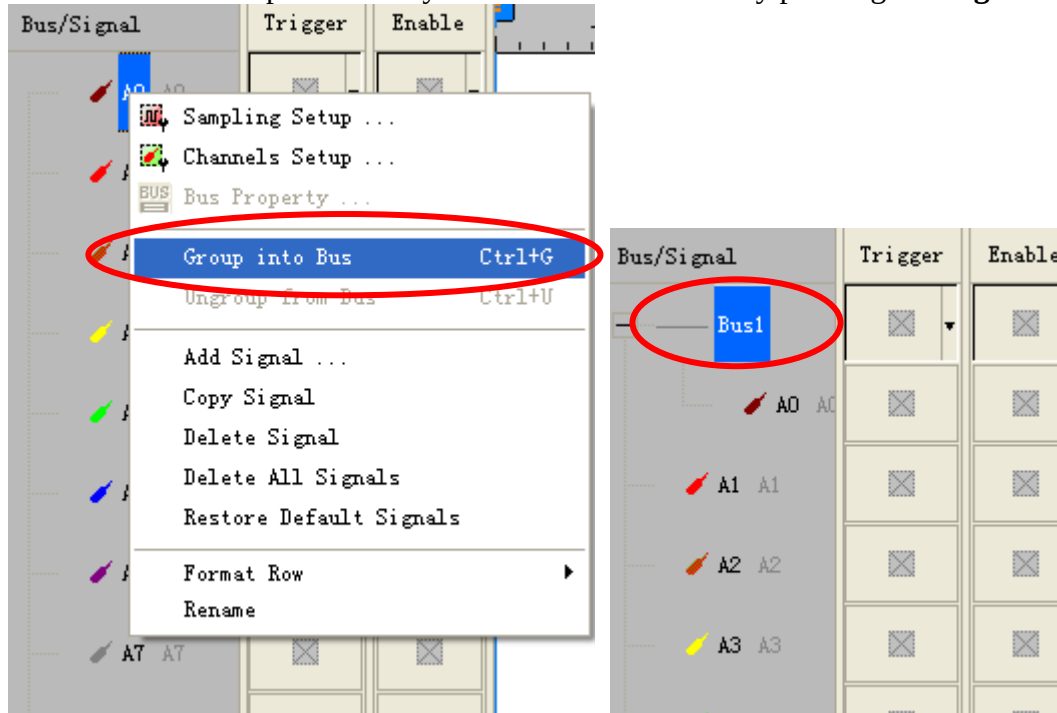


There is ZeroPlus company information. If you have questions about software operations, you can contact ZeroPlus by Telephone or Email.

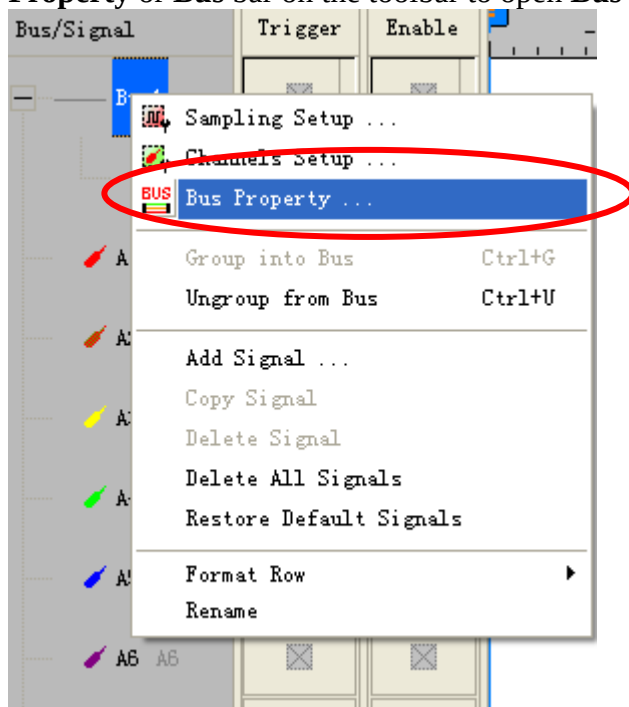


3 Operating Instructions

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

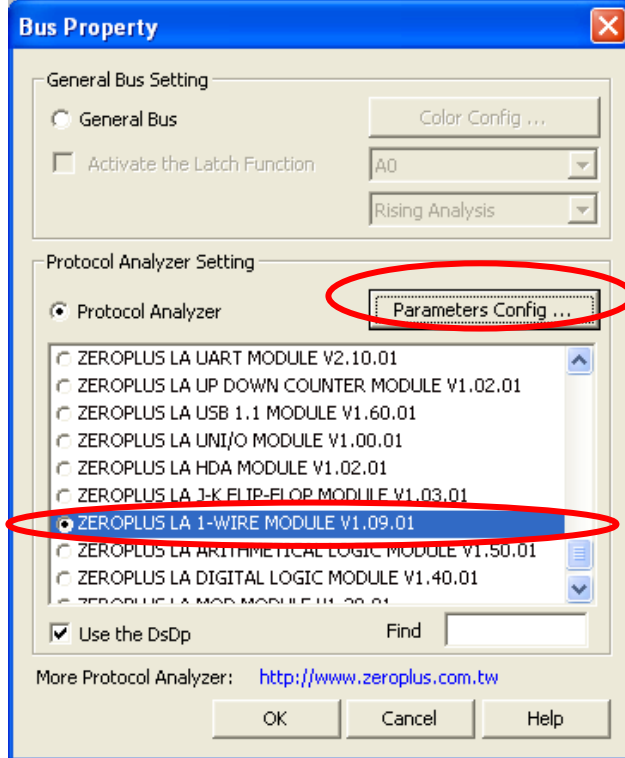


STEP 2. Select **Bus1**, then press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** bar on the toolbar to open **Bus Property** dialog box.

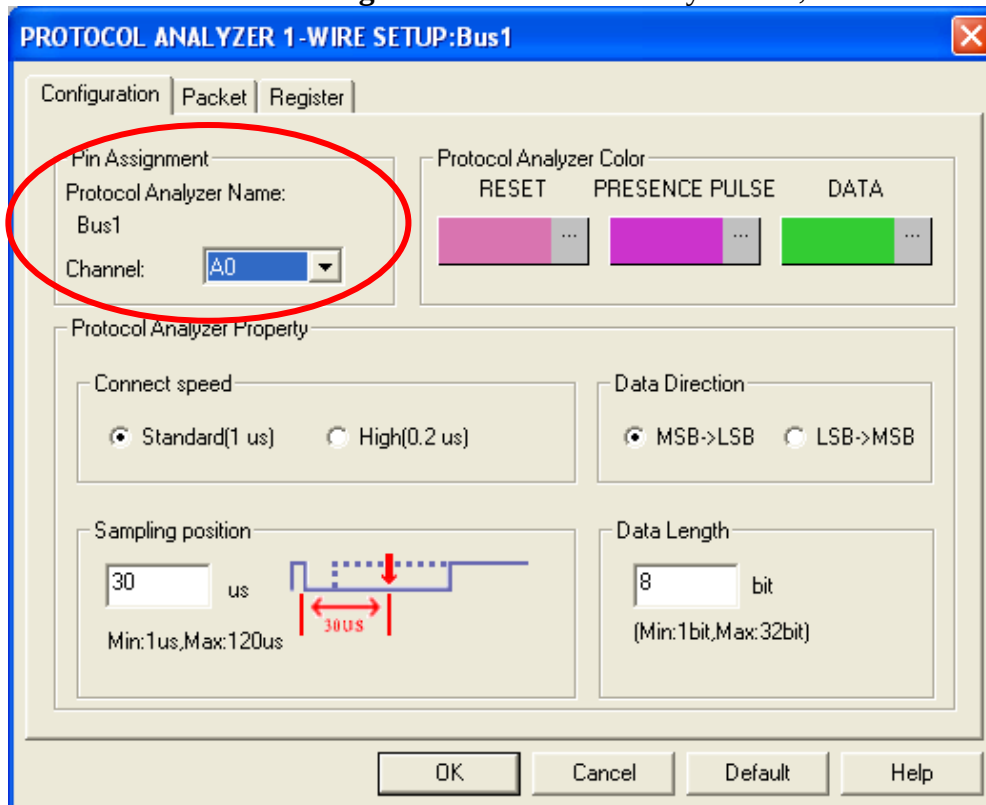




STEP 3. Protocol Analyzer 1-WIRE setting. Click Protocol Analyzer and choose ZEROPLUS LA 1-WIRE MODULE V1.09.01, then click **Parameters Configuration**.

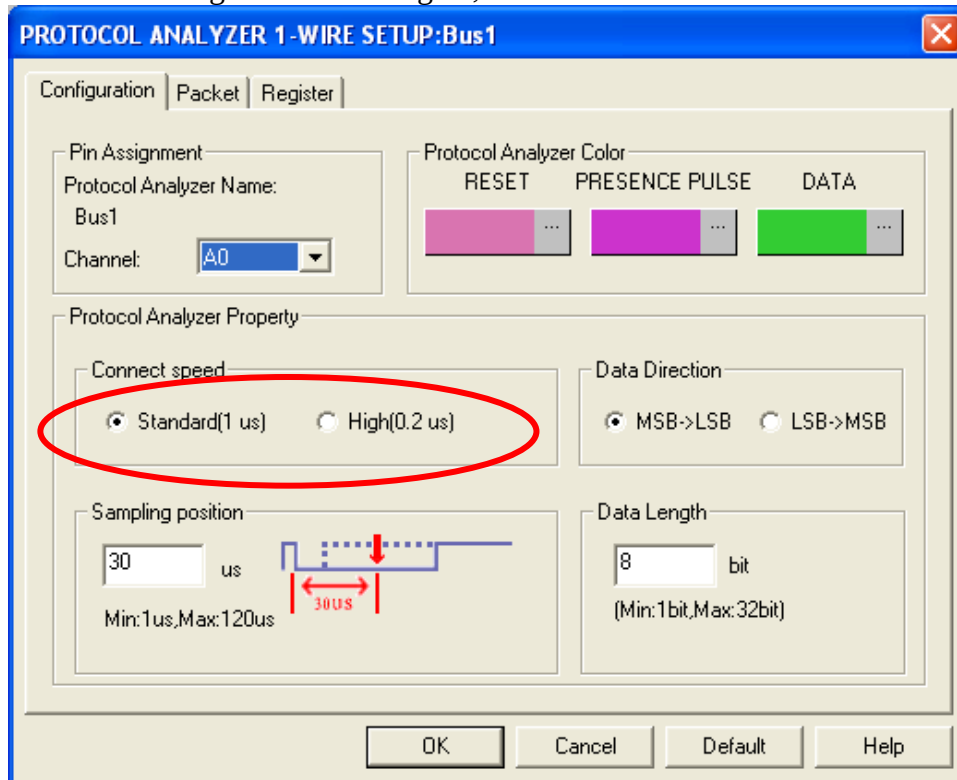


STEP 4. Set Pin Assignment. 1-WIRE has only one IO; set Channel to the connected IO.

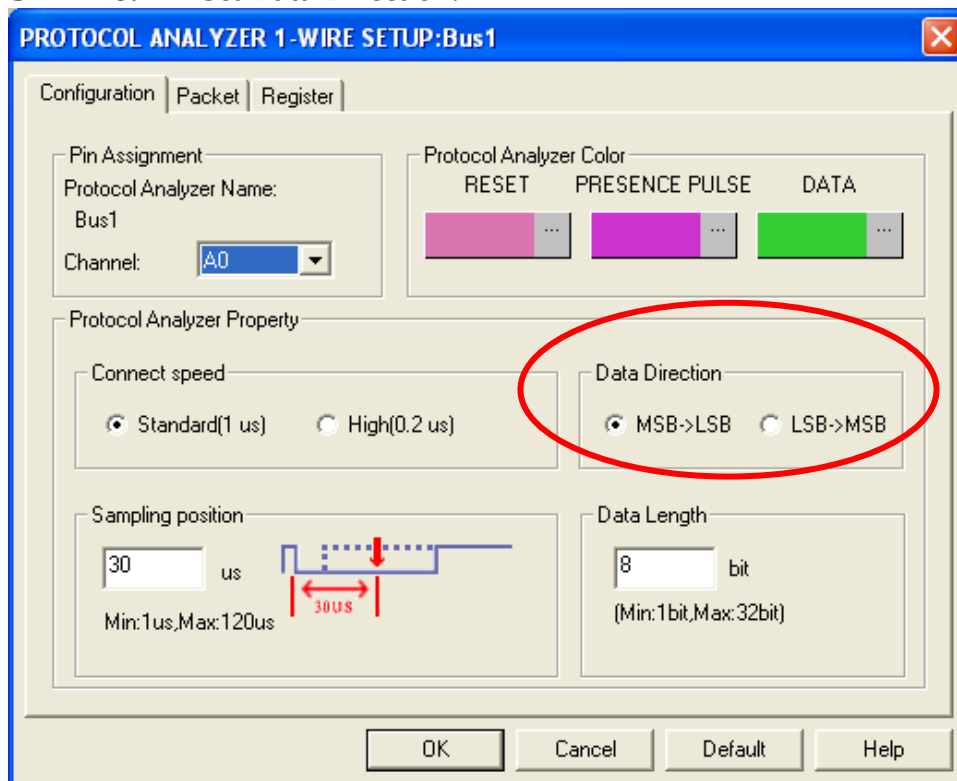




STEP 5. Set **Connect speed**. 1-WIRE has two modes, which are Standard and High, which are set according to the tested signal; the default is Standard.

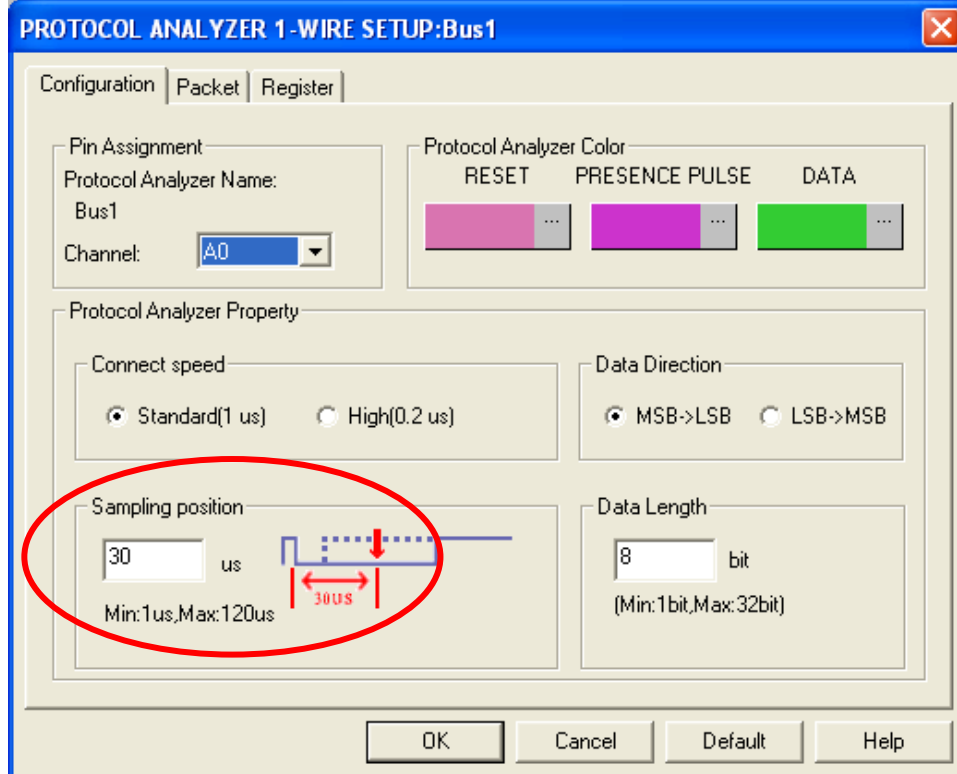


STEP 6. Set **Data Direction**.

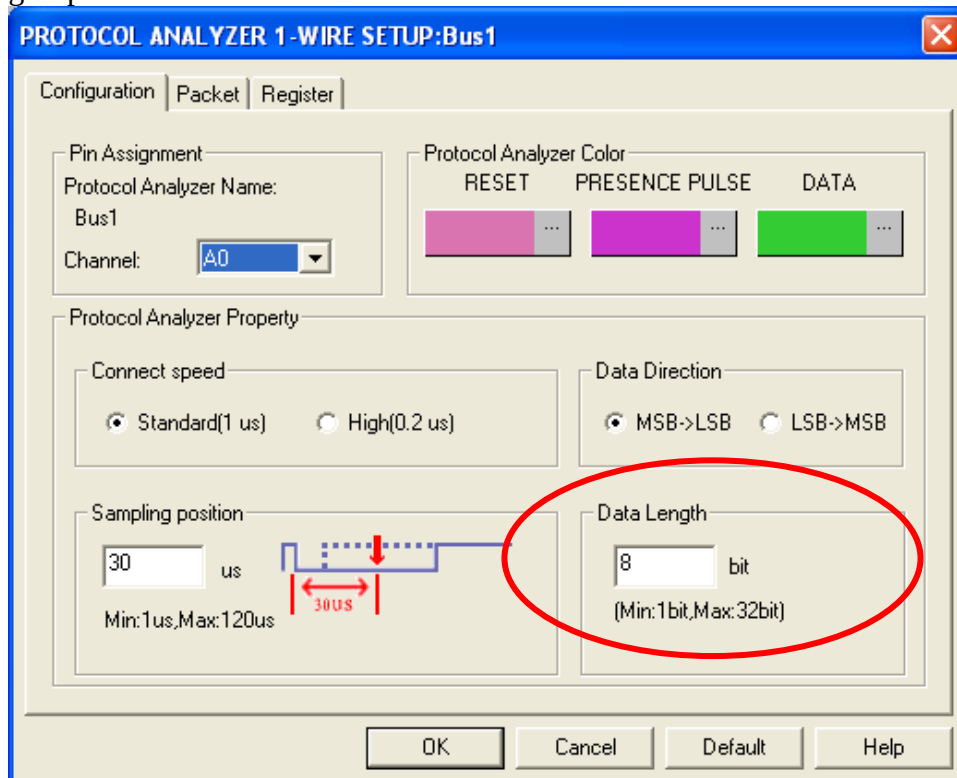




STEP 7. Set **Sampling position**. When the signal cannot be decoded, this option can be used to switch the sampling position of 1-WIRE mildly; the default is 30us.

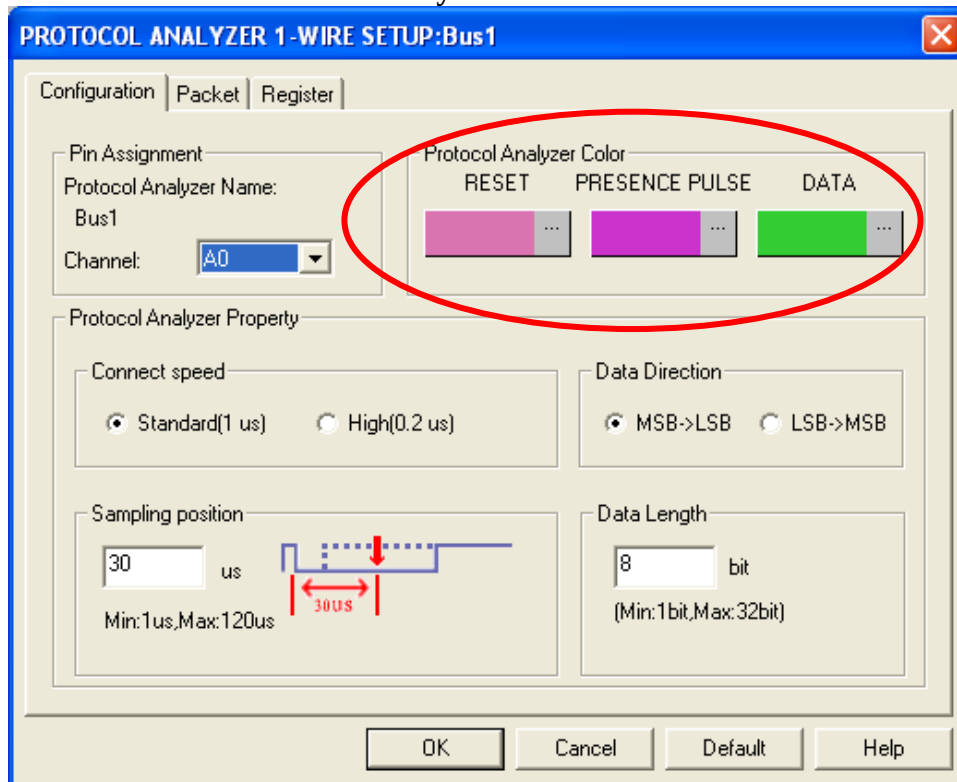


STEP 8. Set **Data Length**. This function can change the bit number of data combined to one group. The default is 8bit. The maximum value is 32bit.

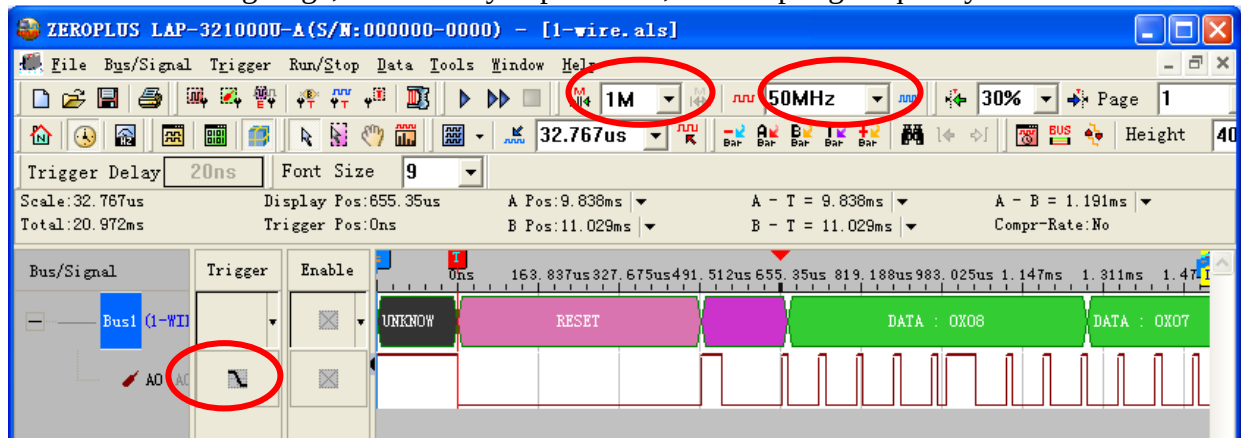




STEP 9. Set Protocol Analyzer Color.



STEP 10. The following is the finished protocol analyzer coding picture. The trigger condition is Falling Edge; the memory depth is 1M; the sampling frequency is 50MHz.





The below picture is the waveform display with the packet list.

