



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

SPECIFICATION

MODEL: DIGRF Specification

PART NO : B08008

VERSION : V1.10

Approver		Check	Design
GM	PM		

Customer Confirm

* Please fax the file to
ZeroPlus Technology after
signing .



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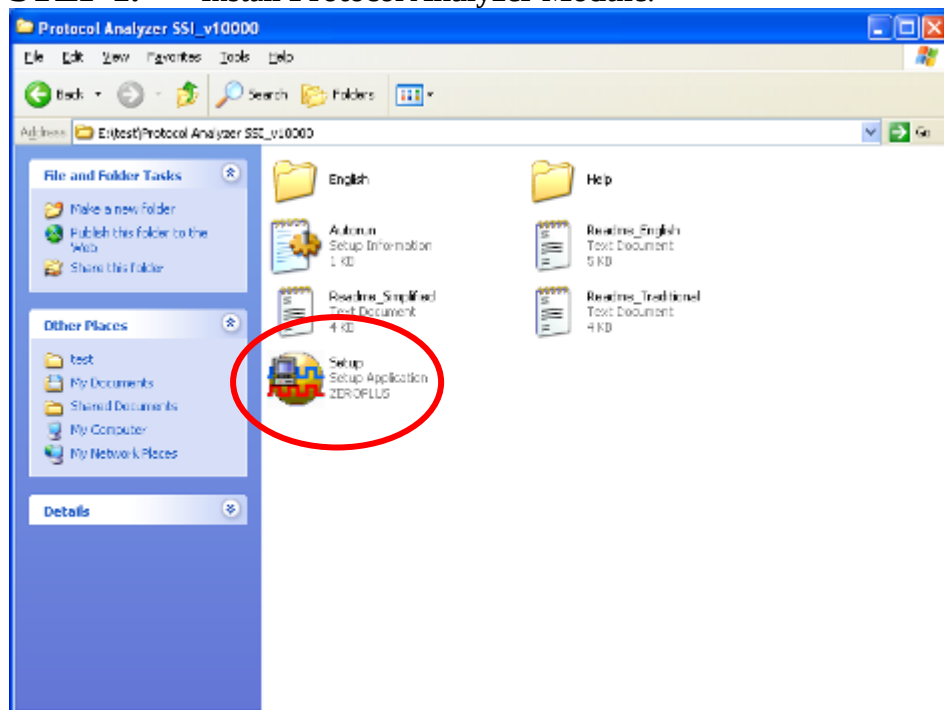


1 Software Installation

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.

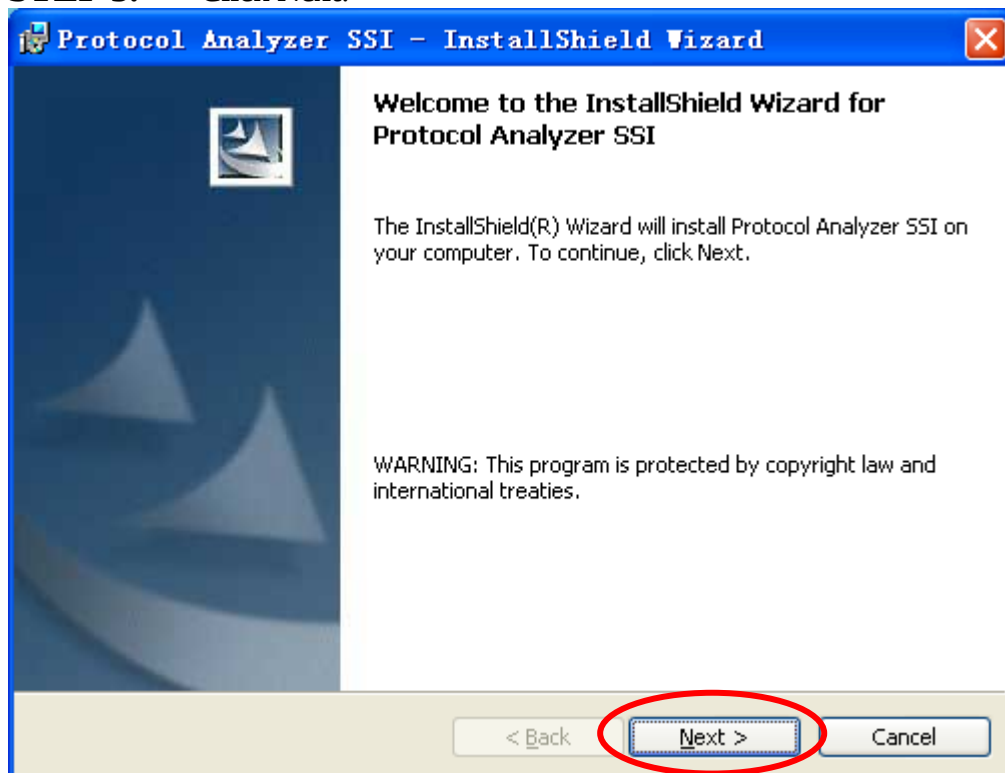


STEP 2. Click Install.

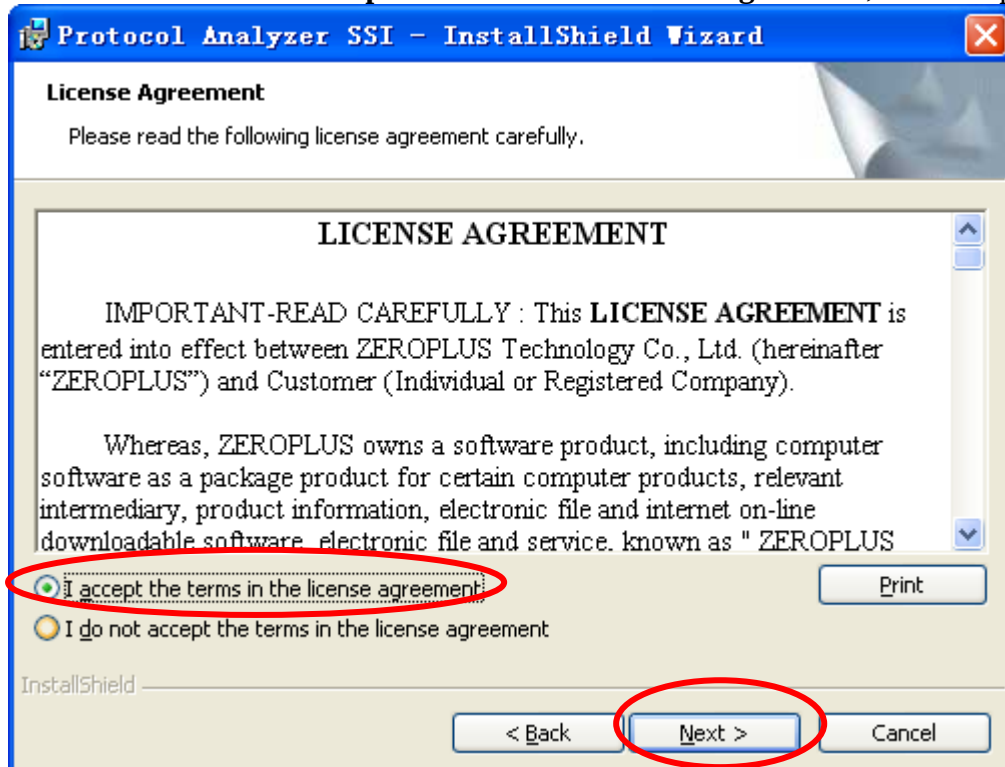




STEP 3. Click Next.



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**.

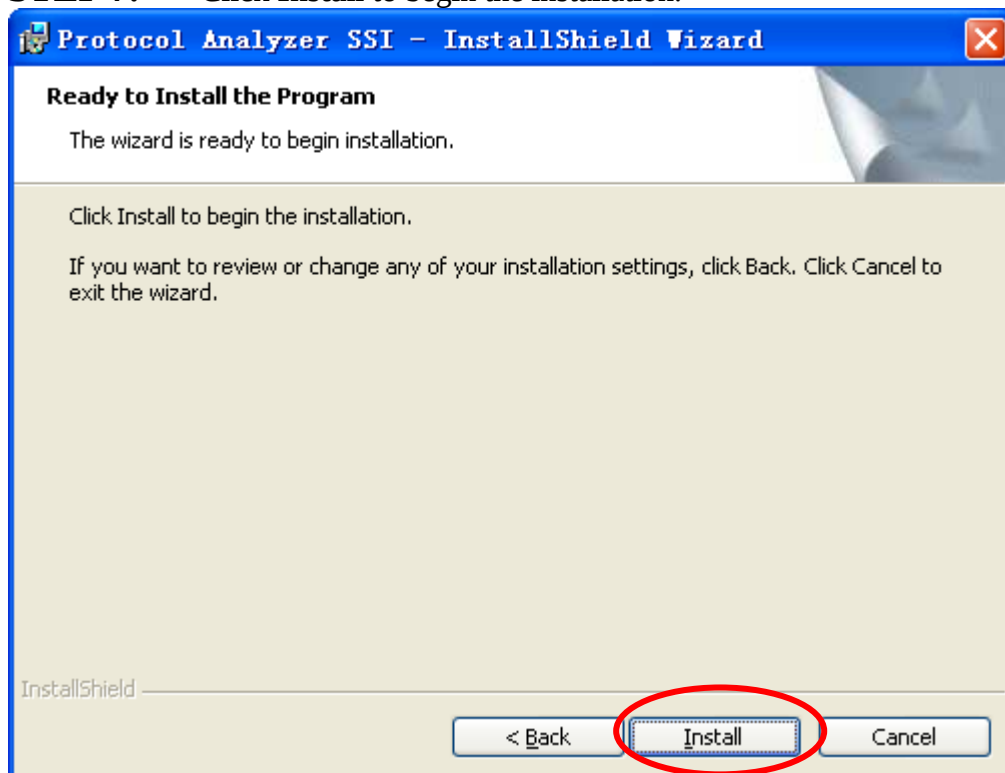
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It has a blue title bar with a close button. The main area is titled "Customer Information" and contains the text "Please enter your information." Below this are two text input fields: "User Name:" with the value "sunshine" and "Organization:" with the value "zeroplus". There are two radio buttons for installation scope: "Anyone who uses this computer (all users)" (selected) and "Only for me (sunshine)". At the bottom, there are three buttons: "< Back", "Next >" (circled in red), and "Cancel". The "InstallShield" logo is in the bottom left corner.

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

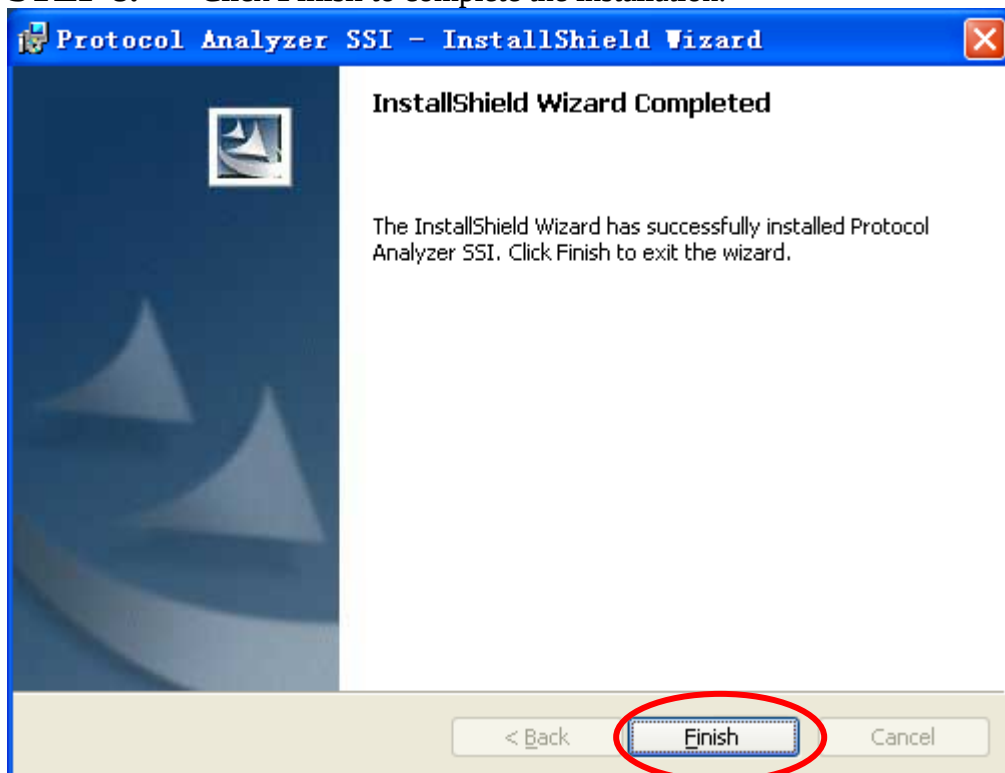
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It has a blue title bar with a close button. The main area is titled "Setup Type" and contains the text "Choose the setup type that best suits your needs." Below this is the text "Please select a setup type." There are two radio buttons: "Complete" (selected) and "Custom". The "Complete" option has a description: "All program features will be installed. (Requires the most disk space.)" and an 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 an icon of a computer with a red 'X'. At the bottom, there are three buttons: "< Back", "Next >" (circled in red), and "Cancel". The "InstallShield" logo is in the bottom left corner.



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



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

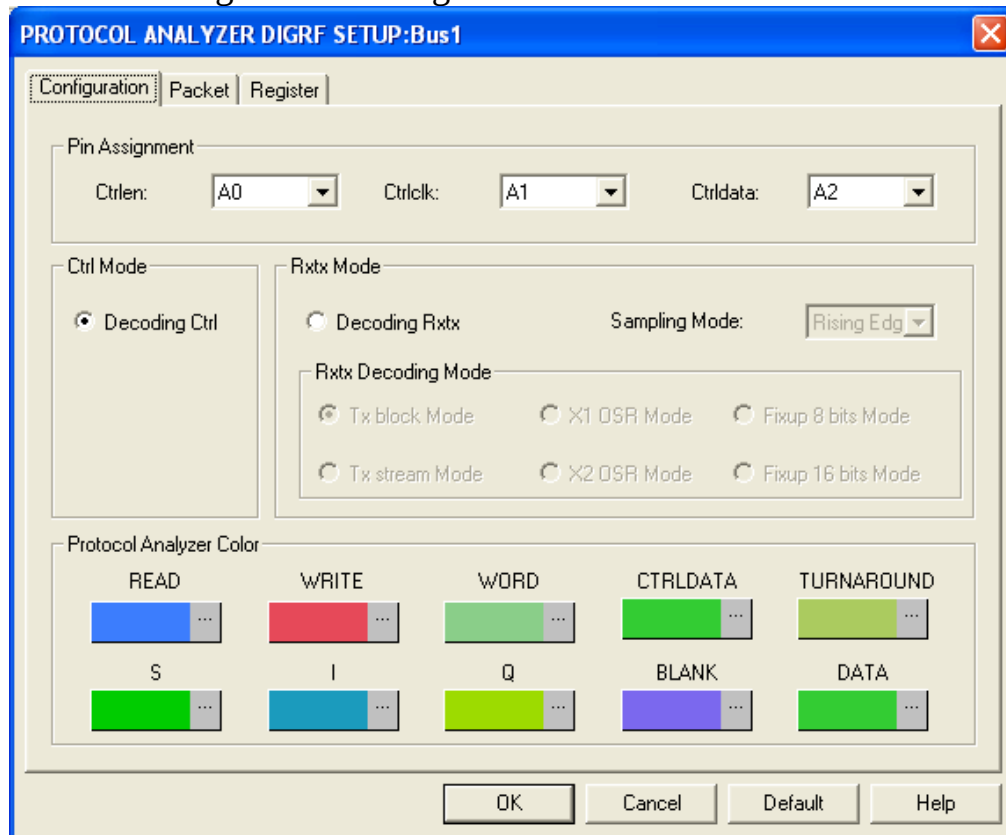




2 User Interface

Please refer to the below images to select options of setting **DIGRF** module.

DIGRF Configuration Dialog Box



Pin Assignment:

Ctrlen: Set the usable Enable line channel (The channel is Rxtxen in the Decoding Rxtx).

Ctrlclk: Set the usable CLK channel (The channel is Sysclk in the Decoding Rxtx).

Ctrldata: Set the usable data channel (the channel is Rxtxdata in the Decoding Rxtx).

Ctrl Mode: Decoding Ctrl command.

Rxtx Mode: Decoding Rxtx. It can be divided into six kinds of Rxtx Decoding Mode, which are Tx block Mode, Tx stream Mode, X1 OSR Mode, X2 OSR Mode, Fixup 8 bits Mode, Fixup 16 bits Mode.

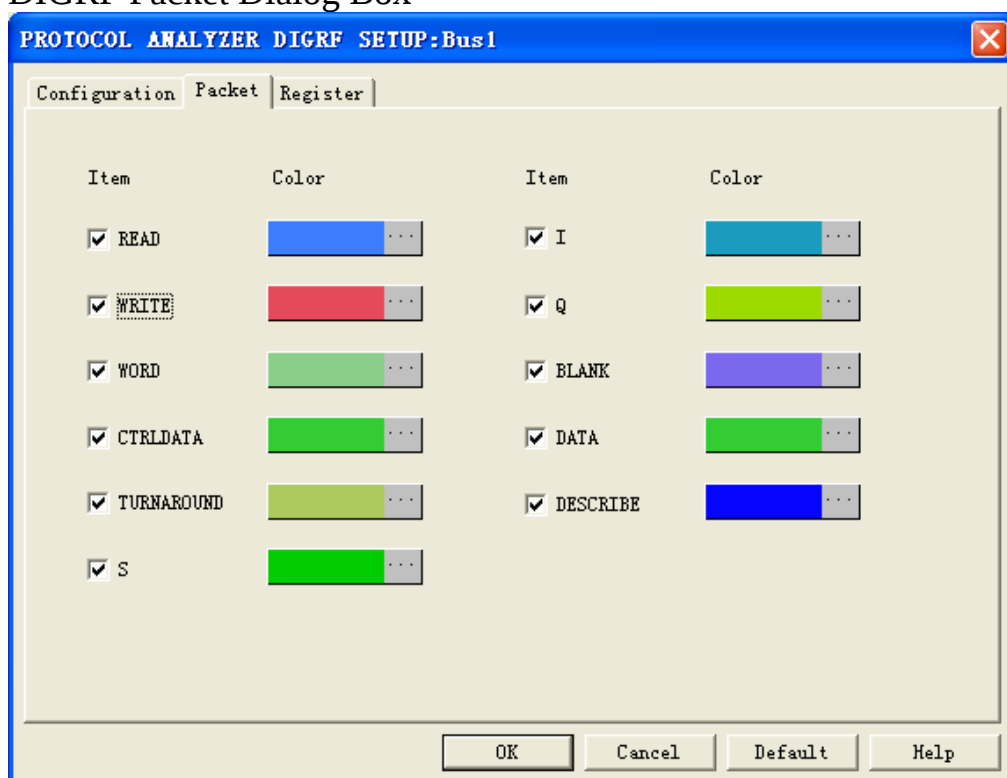
Sampling Mode: To set up the Sampling Mode is RISING edge or FALLING edge.

Protocol Analyzer Color

Users can set and vary the color of the items according to their requirements.

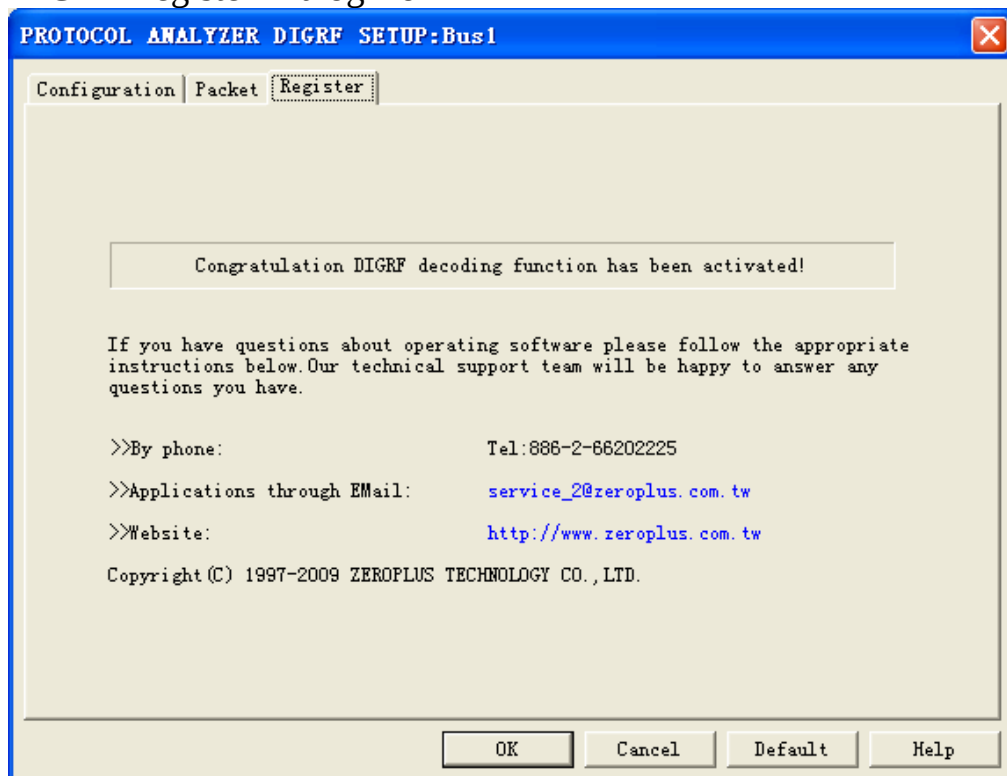


DIGRF Packet Dialog Box



In the packet part, users can vary the displayed item and its color.

DIGRF Register Dialog Box

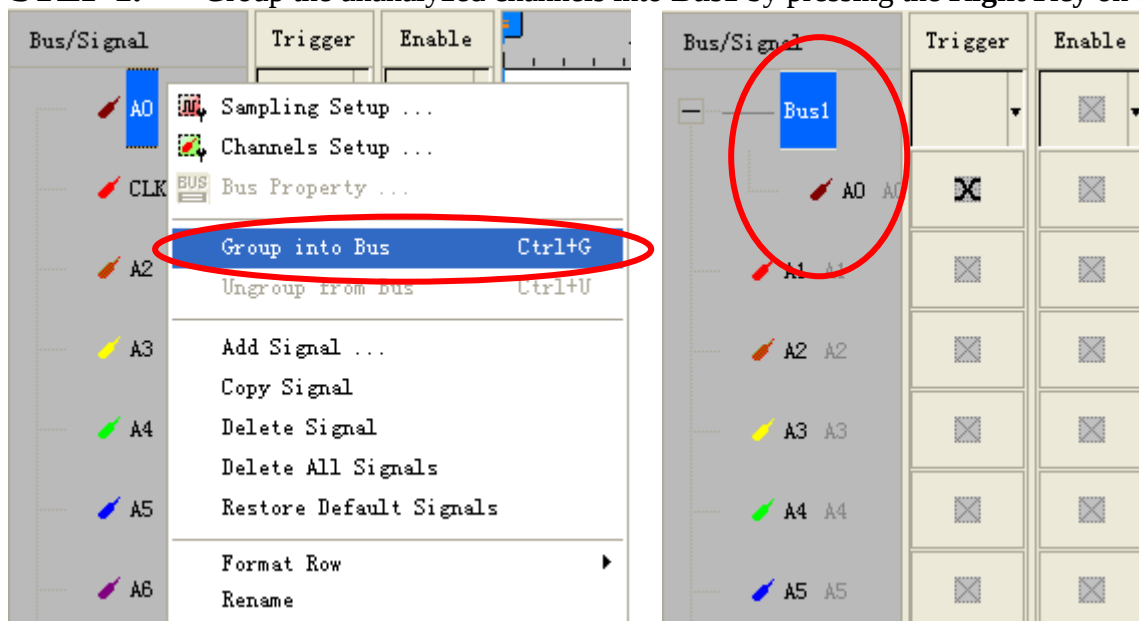


There is ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

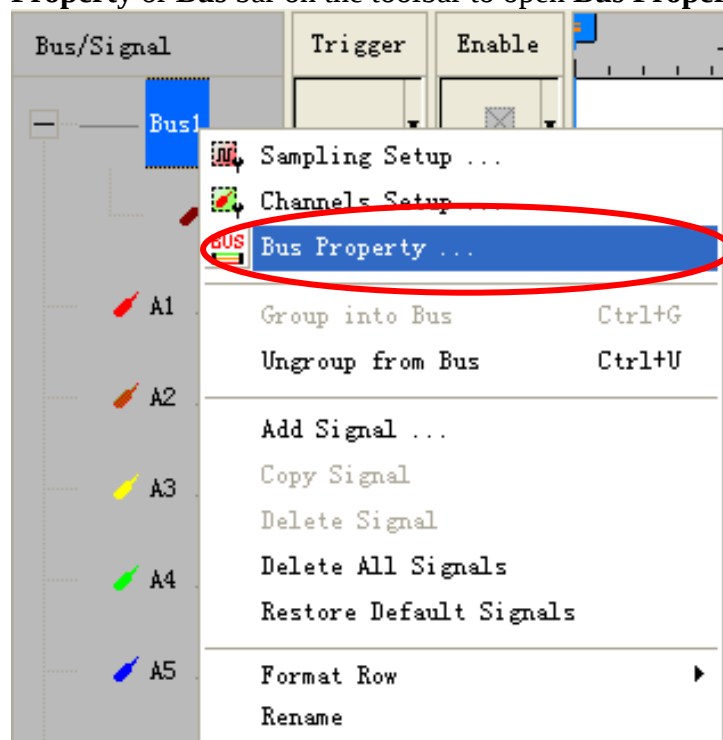


3 Operating Instructions

STEP 1. Group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse.

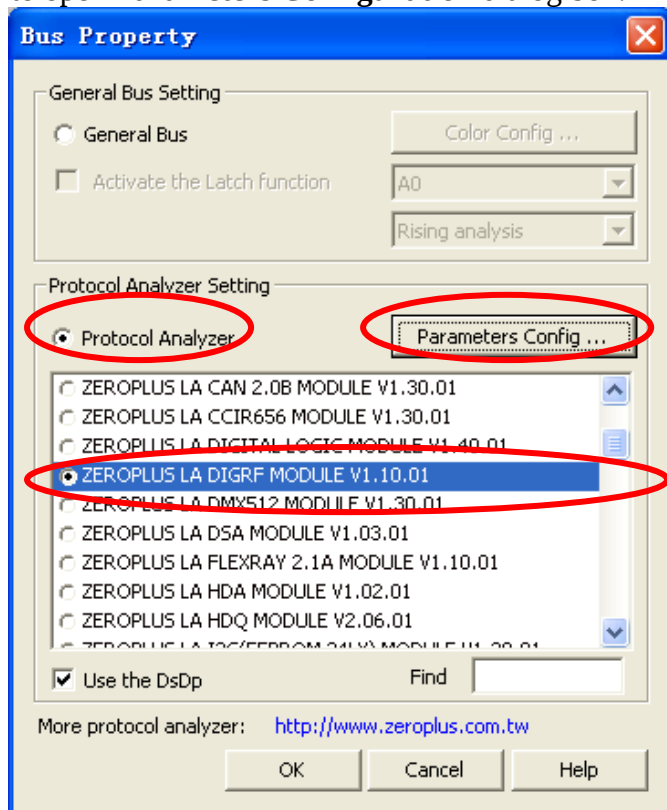


STEP 2. Select **Bus1**, then press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** bar on the toolbar to open **Bus Property** dialog box.

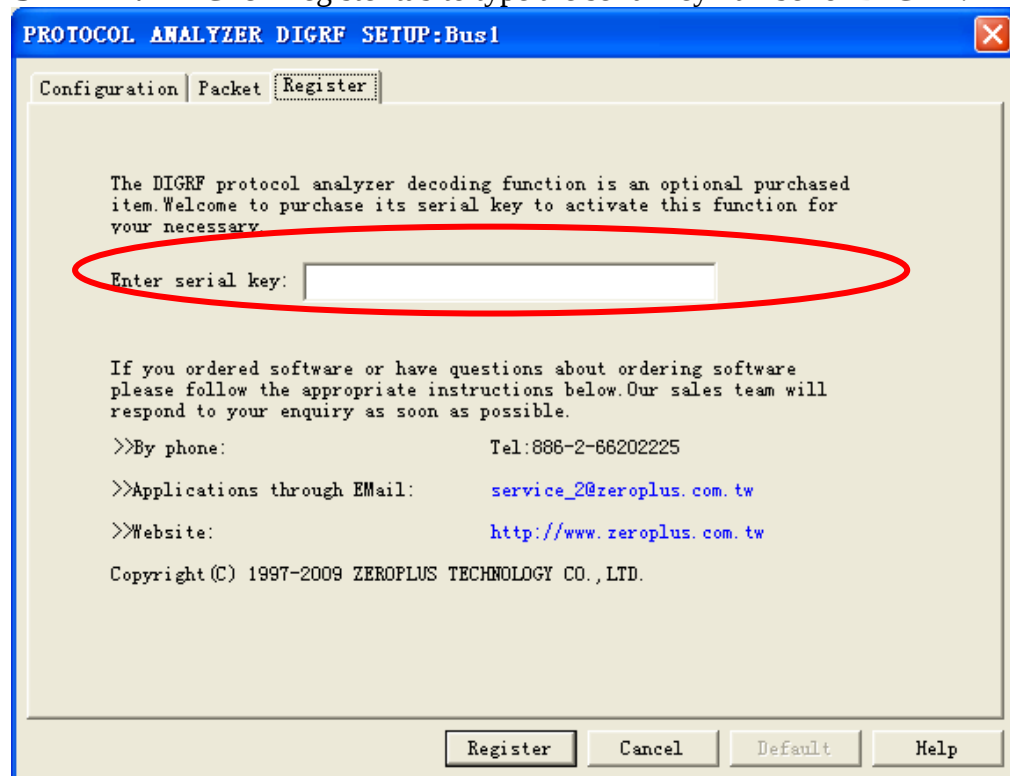




STEP 3. For Protocol Analyzer DIGRF Parameters Configuration, select Protocol Analyzer, then select **ZEROPLUS LA DIGRF MODULE V1.10.01**. Next click **Parameters Configuration** to open **Parameters Configuration** dialog box.

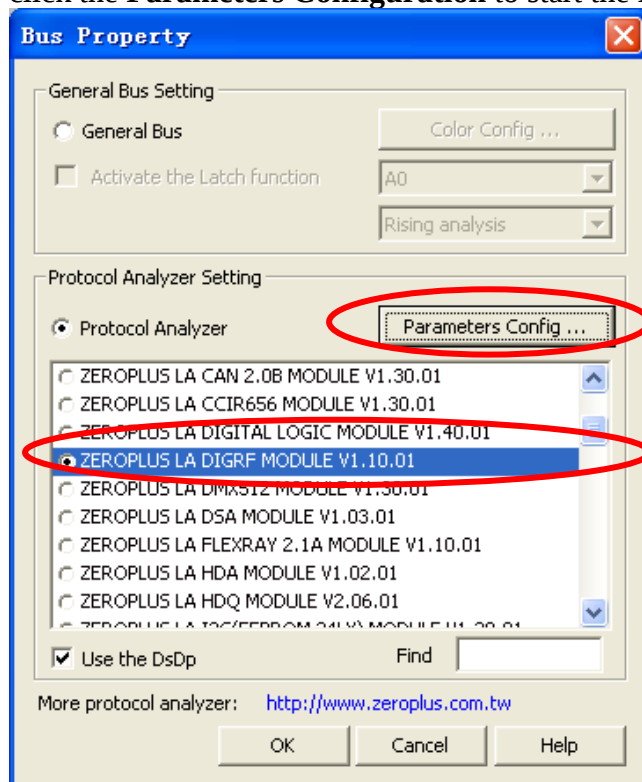


STEP 4. Click Register tab to type the serial key number of **DIGRF**. Then, press **Register**.

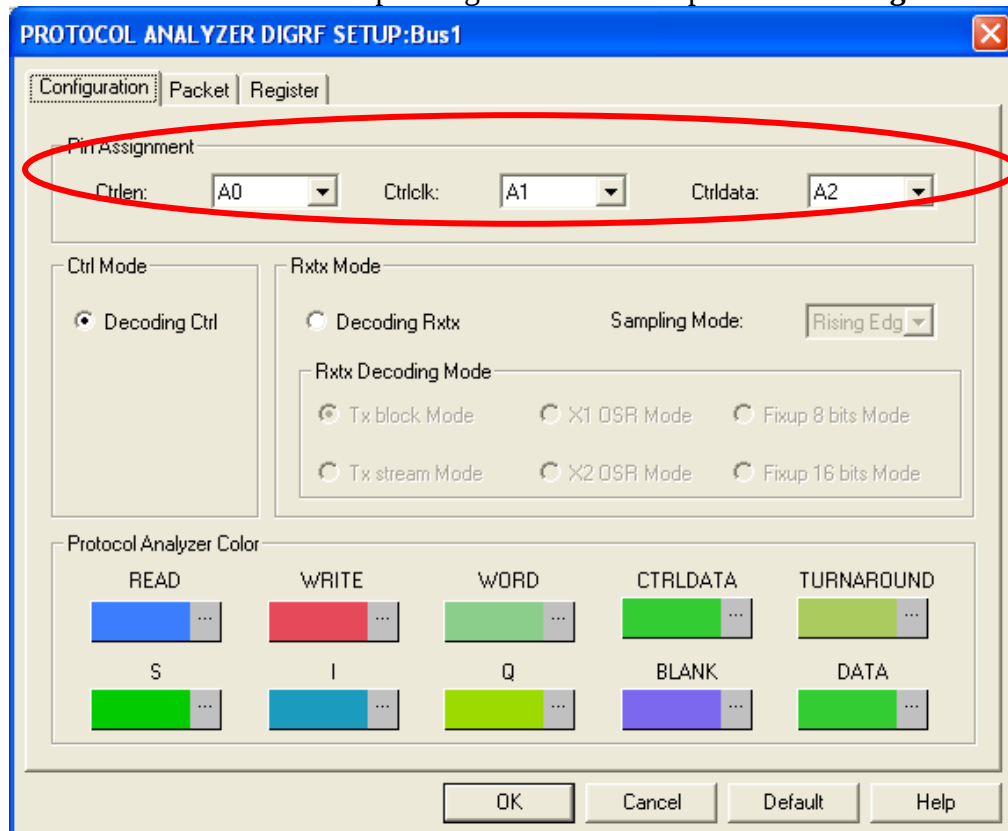




STEP 5. After completing **Register**, come back to the **Bus Property** dialog box, and then click the **Parameters Configuration** to start the Protocol Analyzer DIGRF setup.

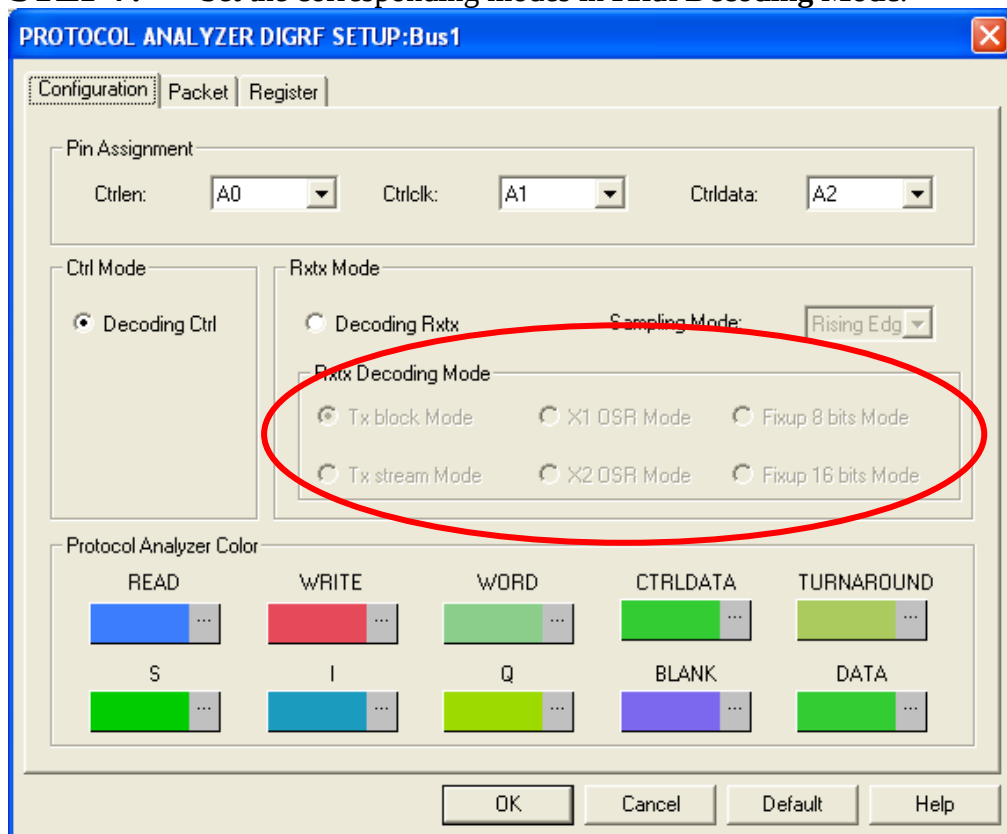


STEP 6. Set the corresponding channels in the part of **Pin Assignment**.

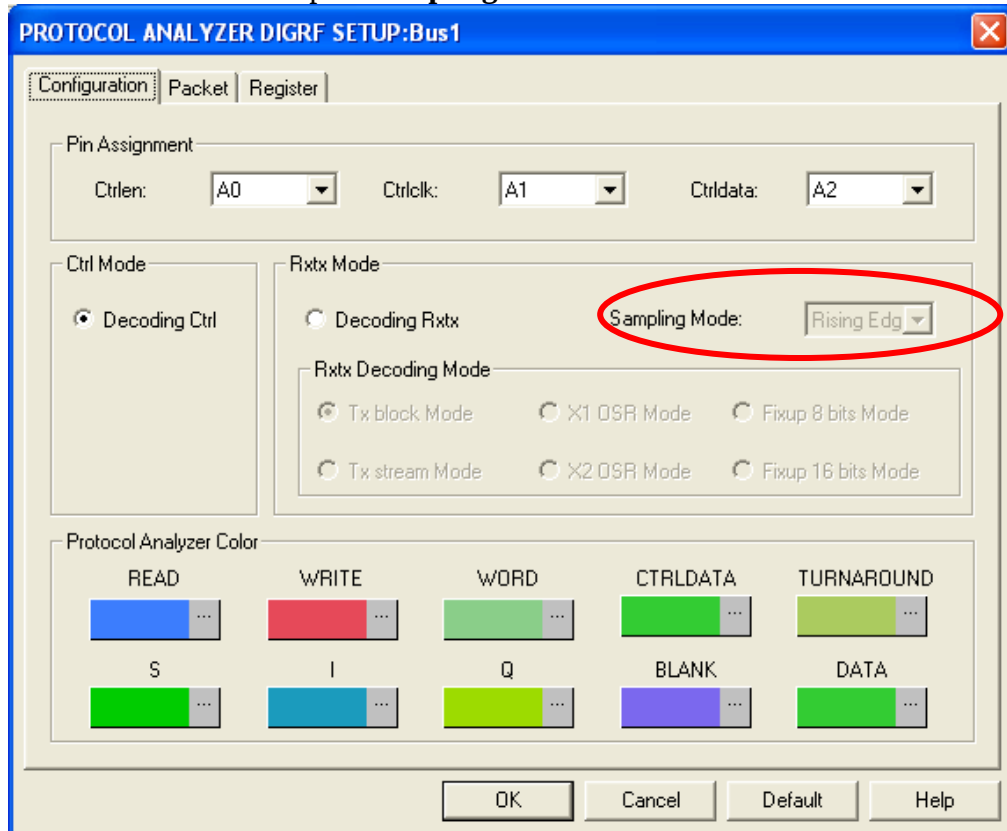




STEP 7. Set the corresponding modes in **Rtxx Decoding Mode**.

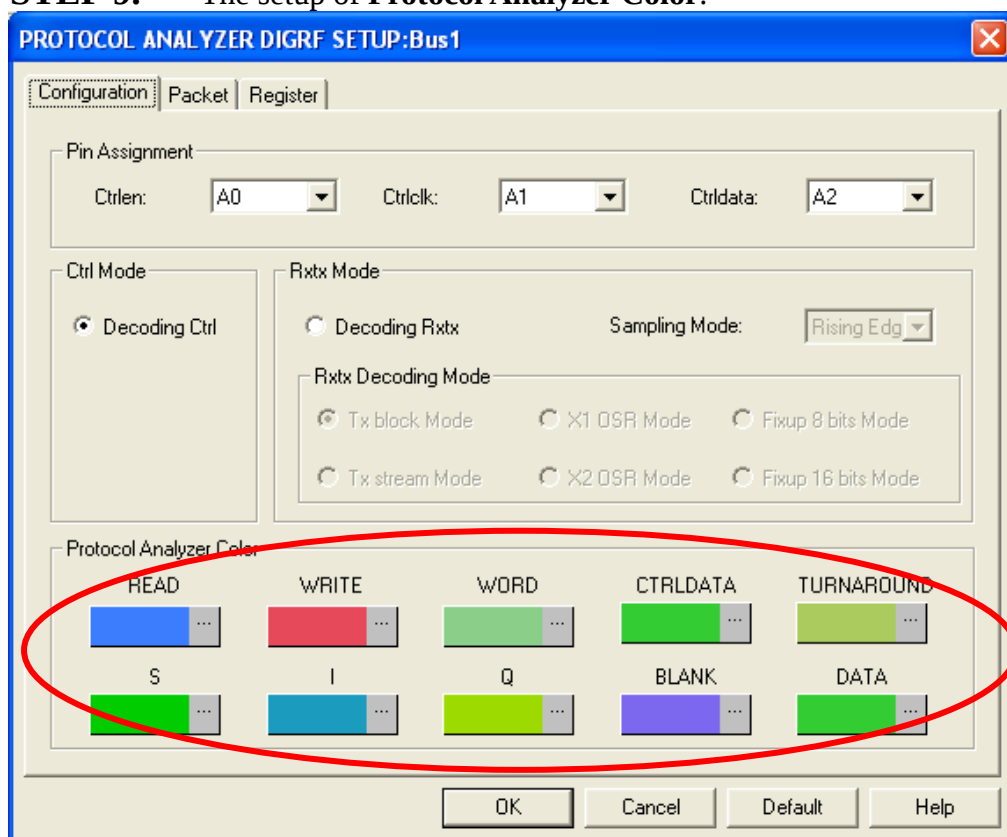


STEP 8. The setup of **Sampling Mode**.



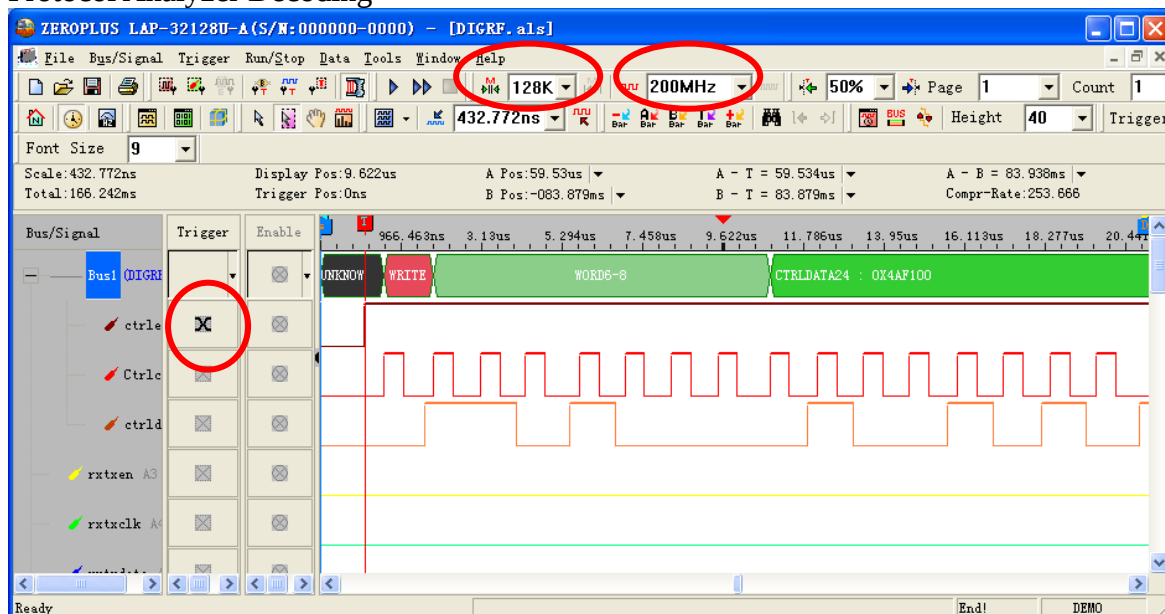


STEP 9. The setup of Protocol Analyzer Color.



STEP 10. Following pictures show the completion of the protocol analyzer decoding and the packet list. The trigger condition is set as Either Edge; the memory depth is 128K; the sampling frequency is 200MHZ.

Protocol Analyzer Decoding





Packet List

