



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

Instrument Business Department

MII Specification

Version : V1.02



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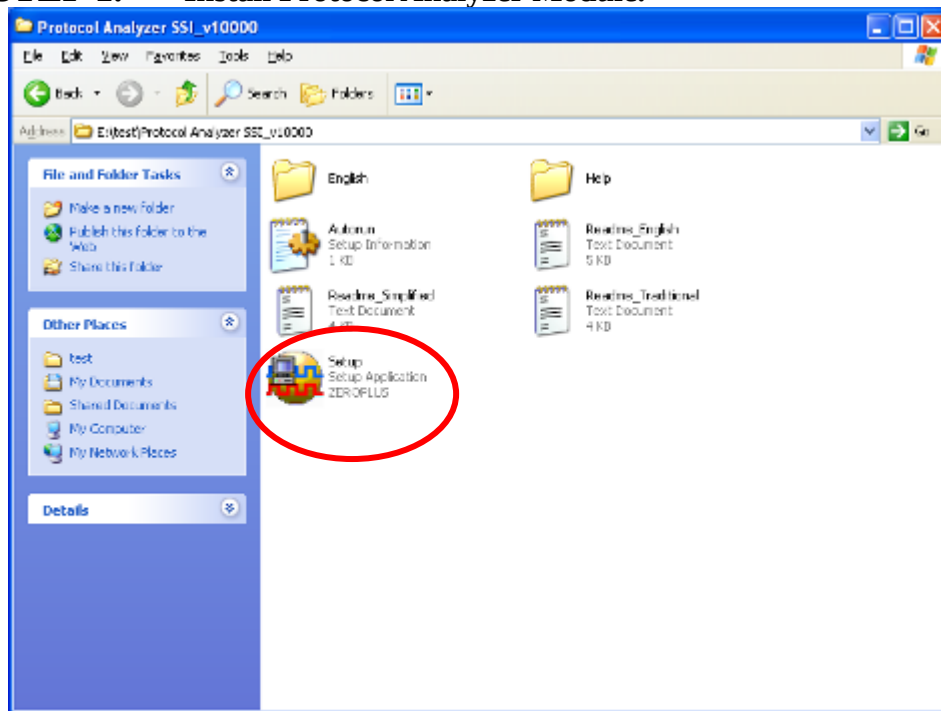
1 Software Installation

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. The 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.

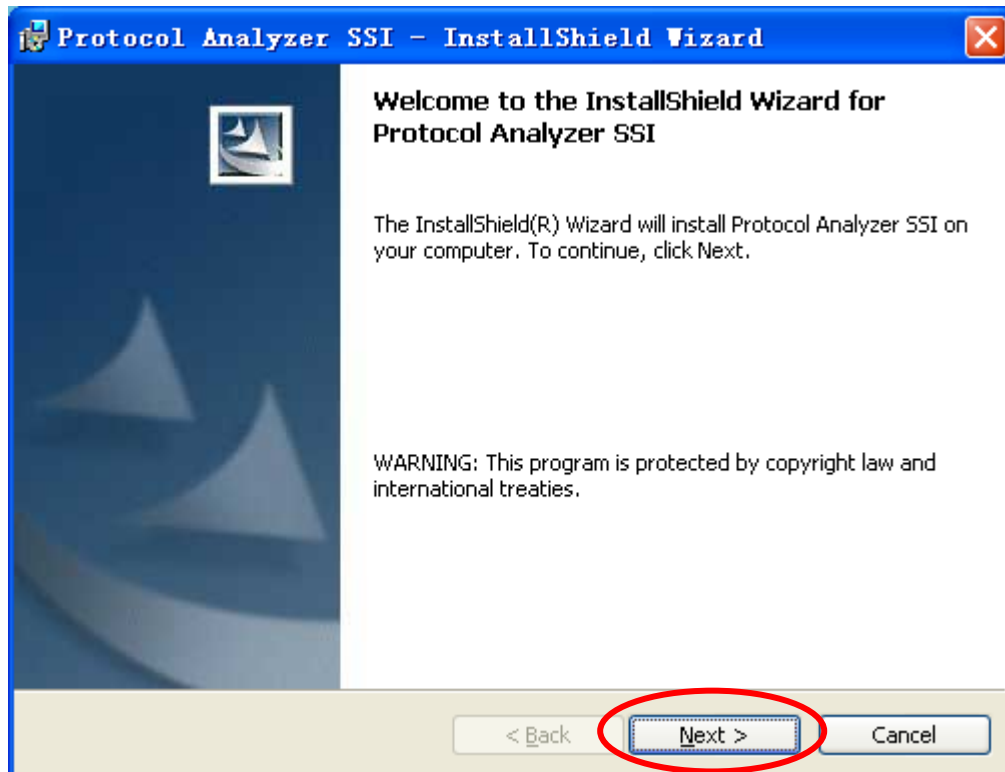


STEP 2. Click Install.

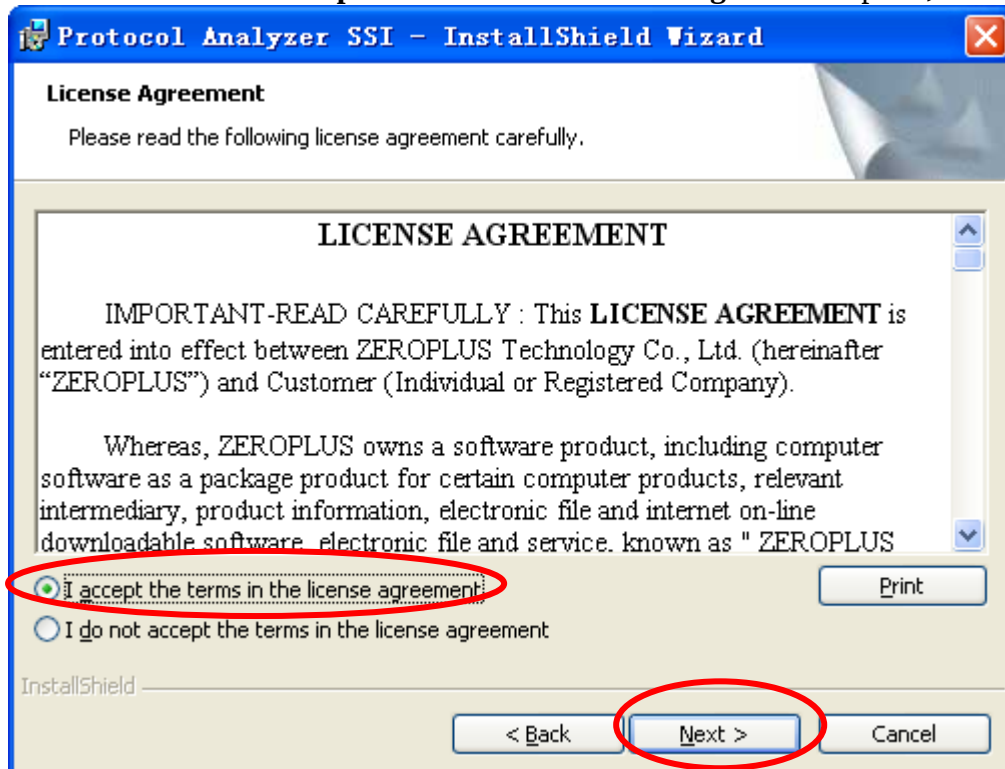




STEP 3. Click Next.



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





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

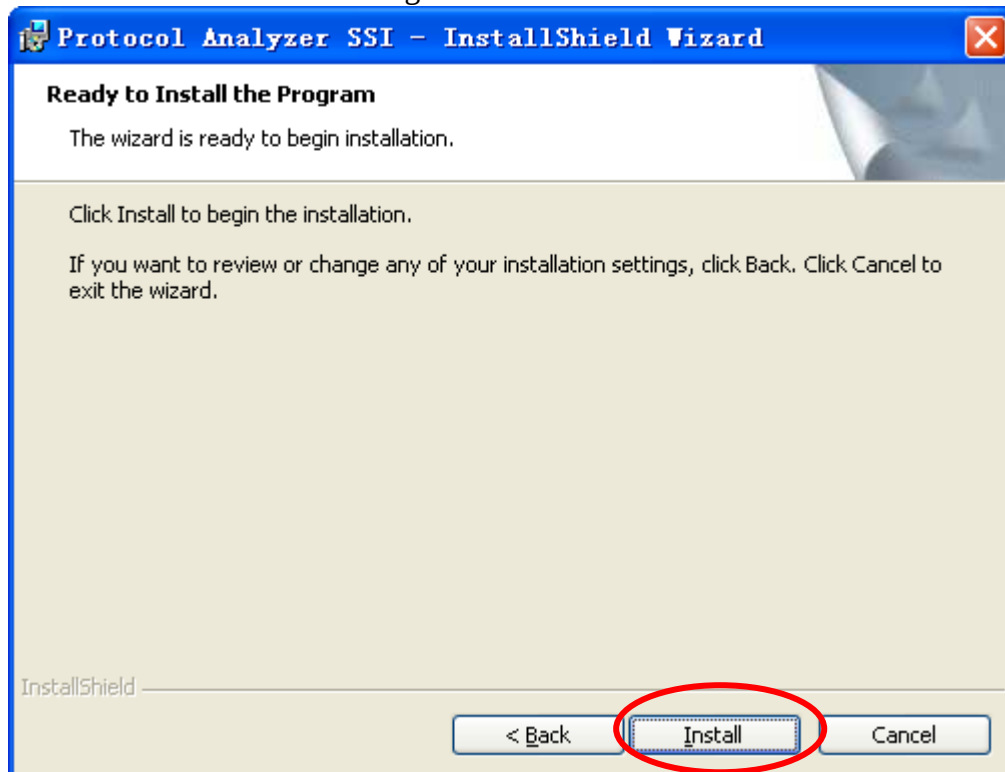
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It has a "Customer Information" header and a sub-header "Please enter your information." Below this, there are two text input fields: "User Name:" with the text "sunshine" and "Organization:" with the text "zeroplus". At the bottom, there is 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 (微软用户)". At the very bottom, there are three buttons: "< Back", "Next >" (which is circled in red), and "Cancel".

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

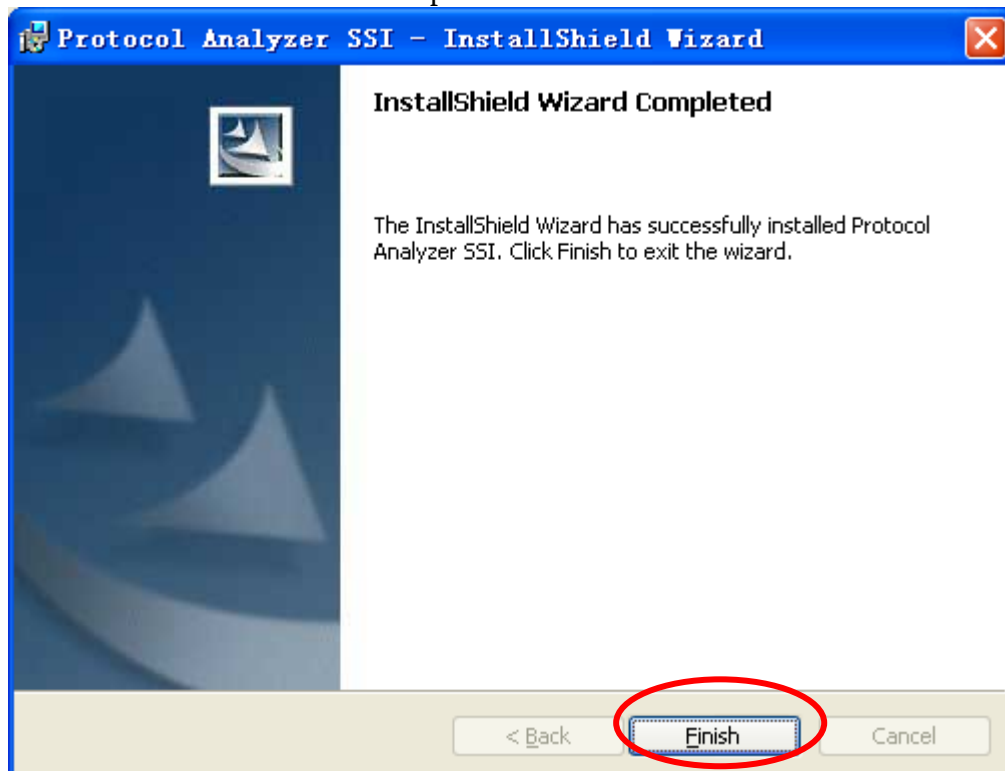
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It has a "Setup Type" header and a sub-header "Choose the setup type that best suits your needs." Below this, there is a text prompt "Please select a setup type." and two options: "Complete" (which is selected and has a description "All program features will be installed. (Requires the most disk space.)") and "Custom" (which 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 >" (which is circled in red), and "Cancel".



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



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

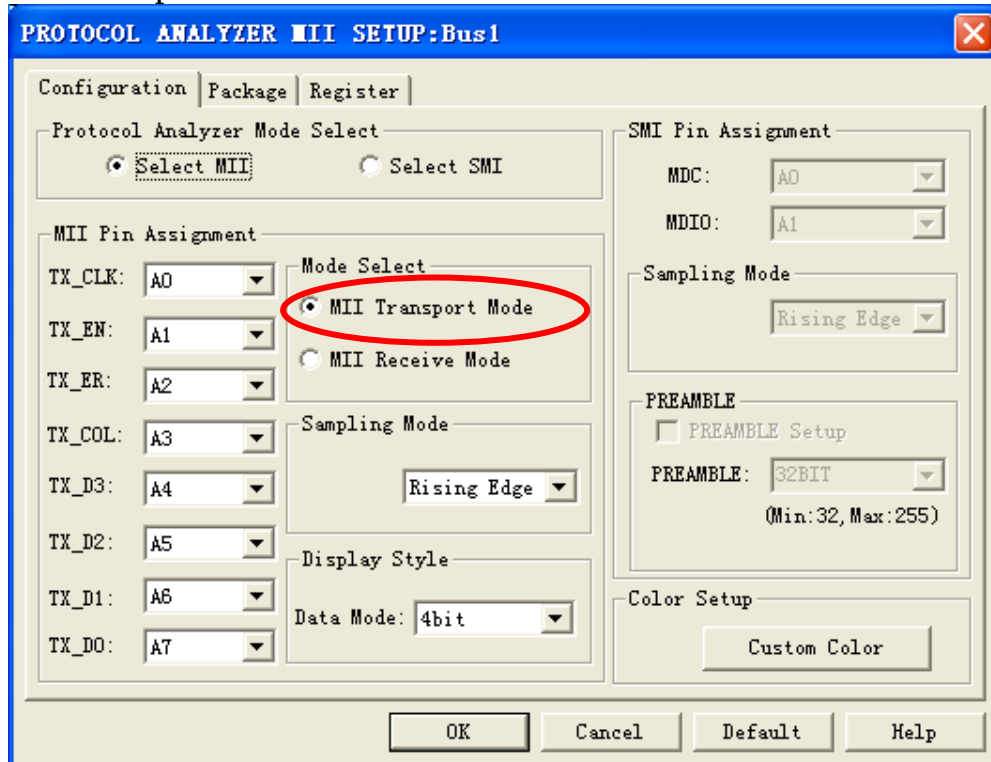




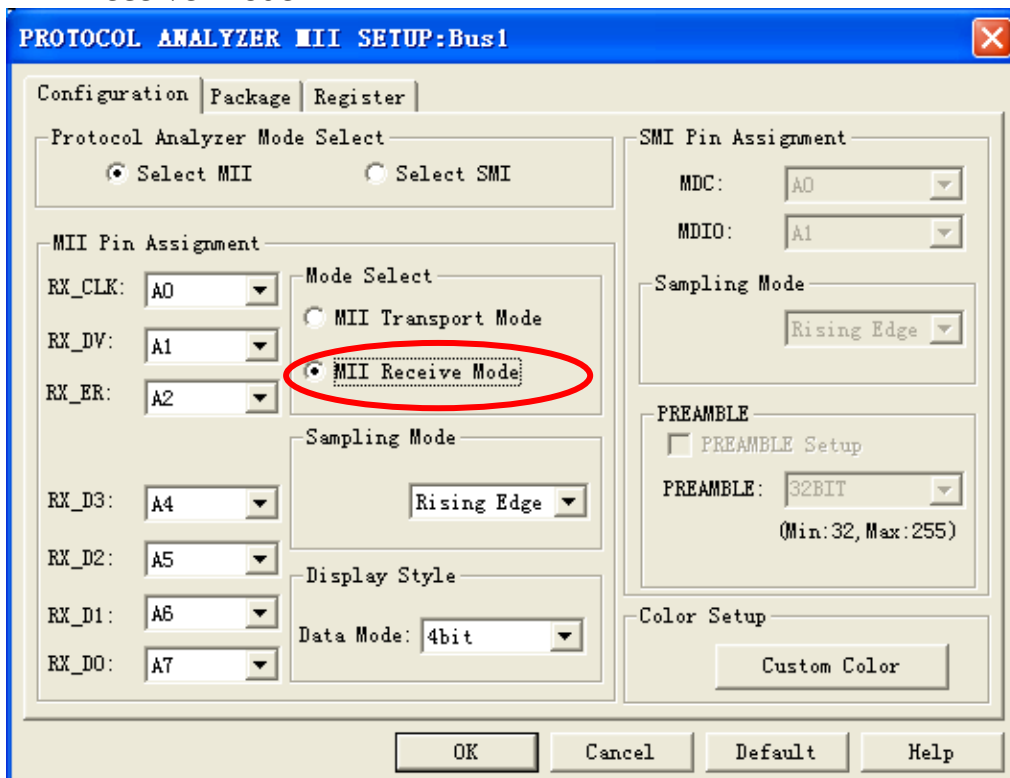
2 User Interface

In the configuration dialog box, please refer to the below images to select options of setting **MII MODULE**.

MII Transport Mode

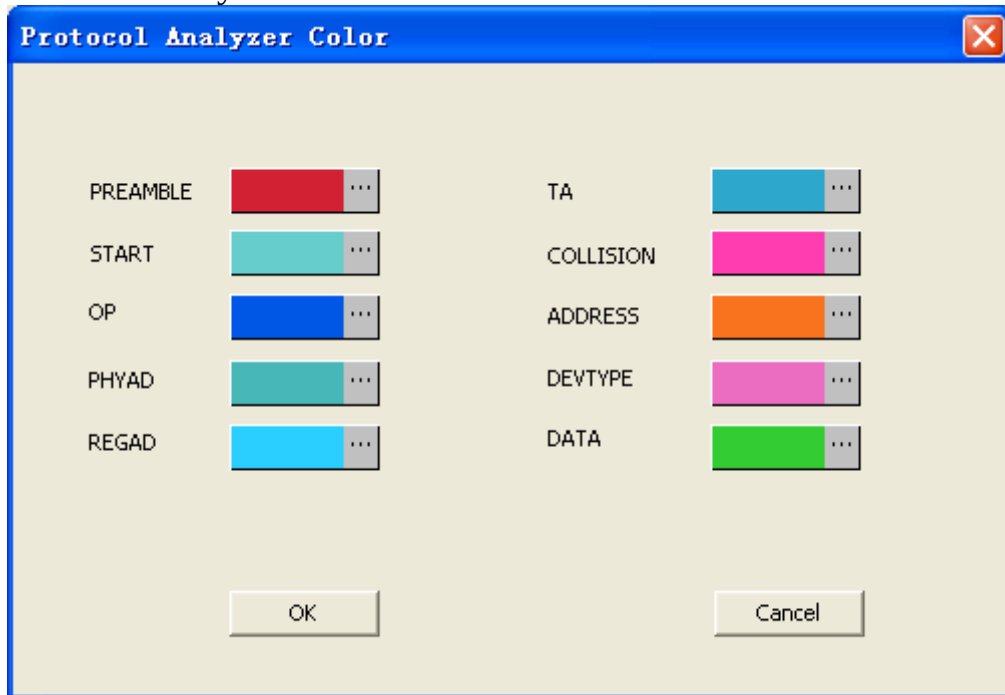


MII Receive Mode





Protocol Analyzer Color



Protocol Analyzer Mode Select:

Select the mode of MII or SMI to decode.

MII Pin Assignment:

Select the channel of the MII mode and set the corresponding channels. It needs eight channels for the Transport Mode of MII to decode, which are TX_CLK, TX_EN, TX_ER, TX_COL and TX_DATA0~TX_DATA3. what's more ,it needs seven channels for the Receive Mode of MII to decode, which are RX_CLK, RX_ER, RX_DV and RX_DATA0~RX_DATA3.

Mode Select:

There are MII Transport Mode and MII Receive Mode for users to select.

Sampling Mode:

There are Rising Edge and Falling Edge for Sampling Mode setting.

Display Style:

Users can choose to display data in 4bit or 8bit.

SMI Pin Assignment:

Set the corresponding channels for MDC and MDIO in the SMI mode.

PREAMBLE:

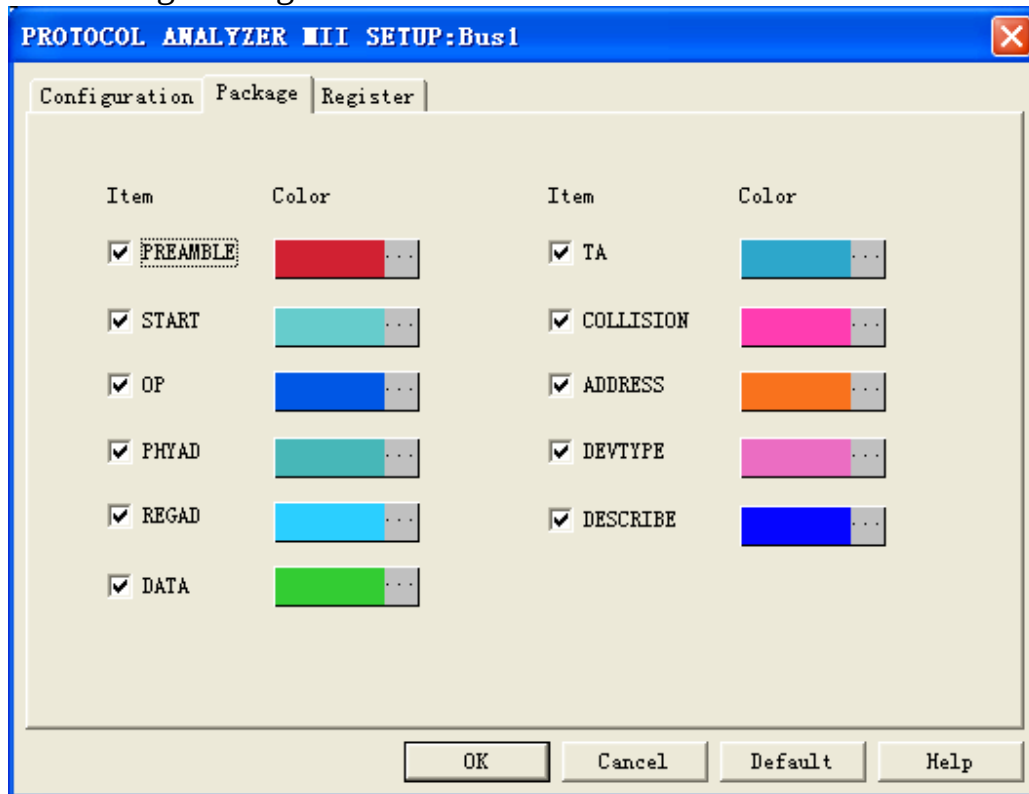
Set the Bit value of PREAMBLE.

Protocol Analyzer Color:

Users can set the protocol analyzer color according to their own requirements.

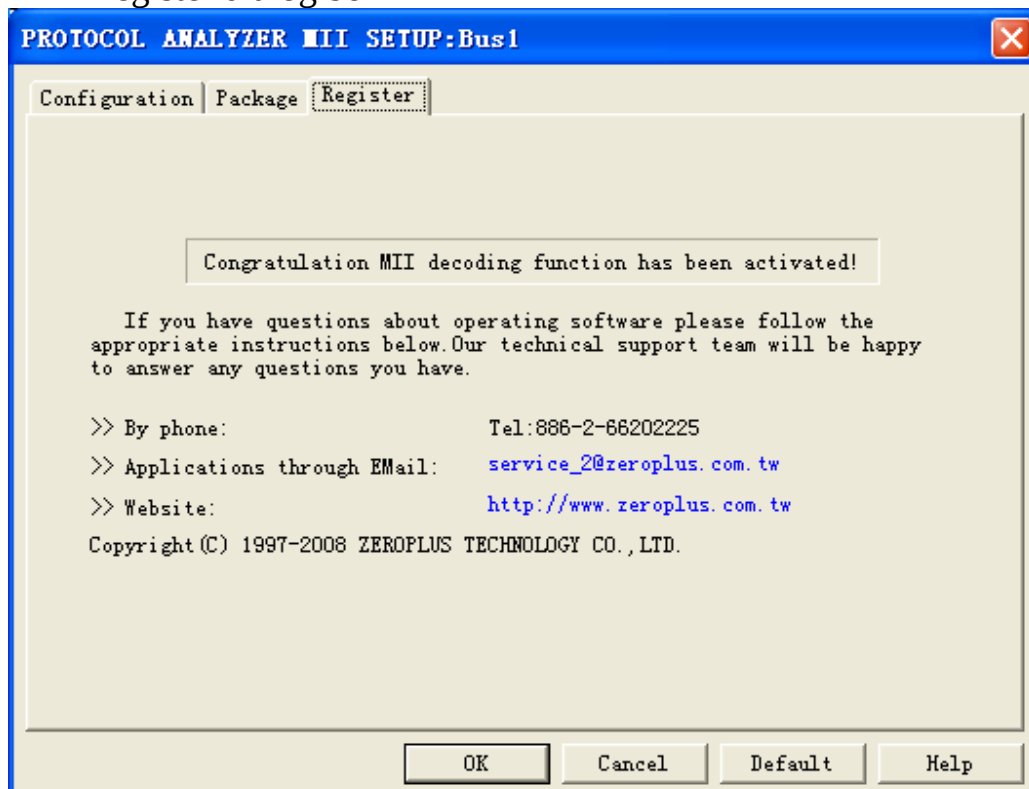


MII Package dialog box



In the package dialog box, users can decide which items are to be displayed and set protocol analyzer color according to their own requirements.

MII Register dialog box

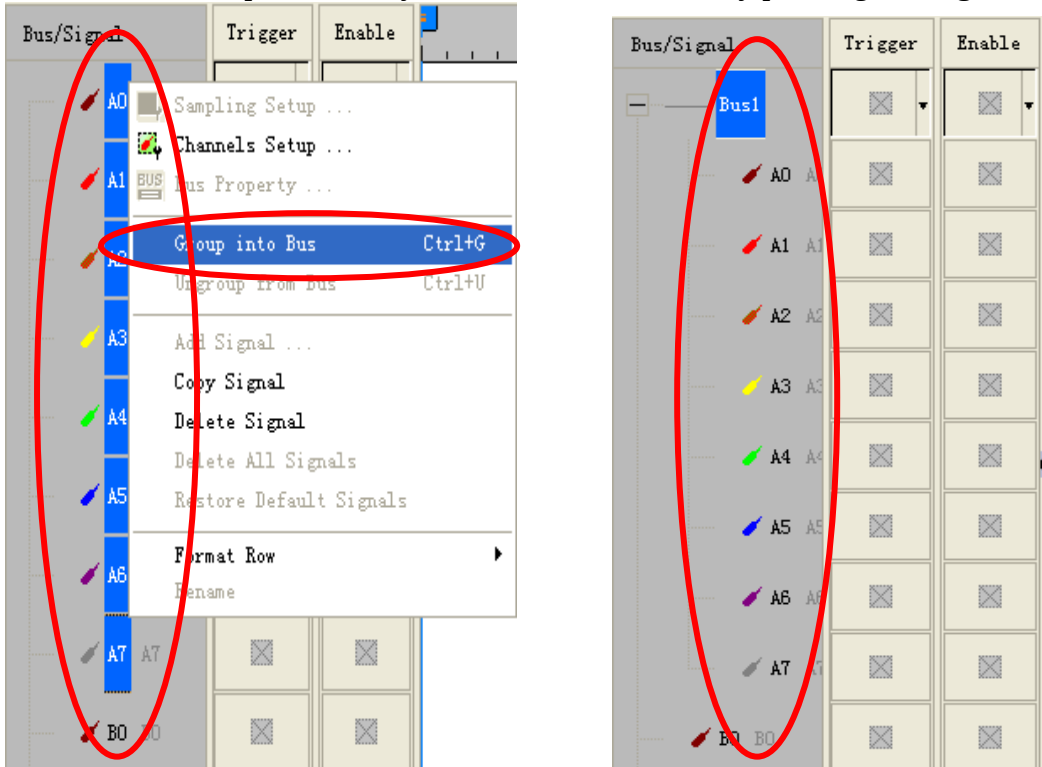


There is written ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

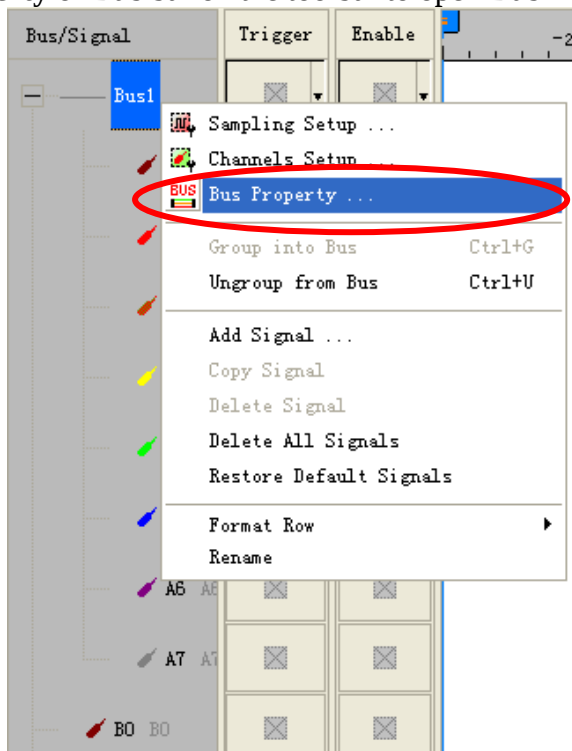


3 Operating Instructions

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

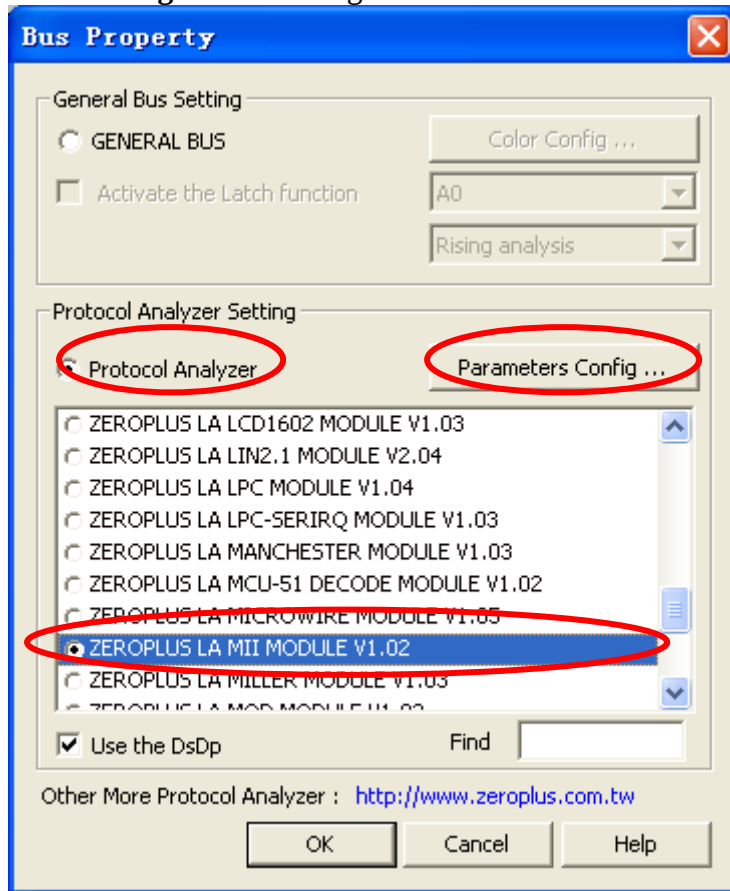


STEP 2. Select **Bus1**, then press **Right key** on the mouse to list menu, then press **Bus Property** or **Bus bar** on the toolbar to open **Bus Property** dialog box.

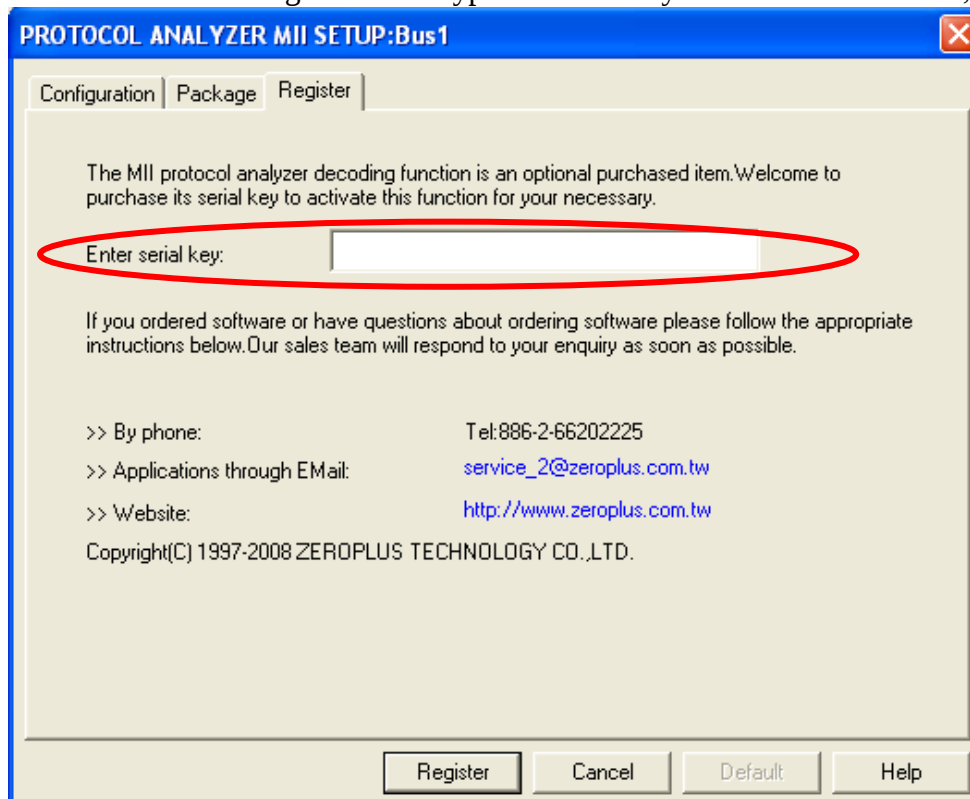




STEP 3. For Protocol Analyzer MII Parameters Configuration, select Protocol Analyzer, and then select **ZEROPLUS LA MII MODULE V1.02**. Next click **Parameters Configuration** to open **Parameters Configuration** dialog box.

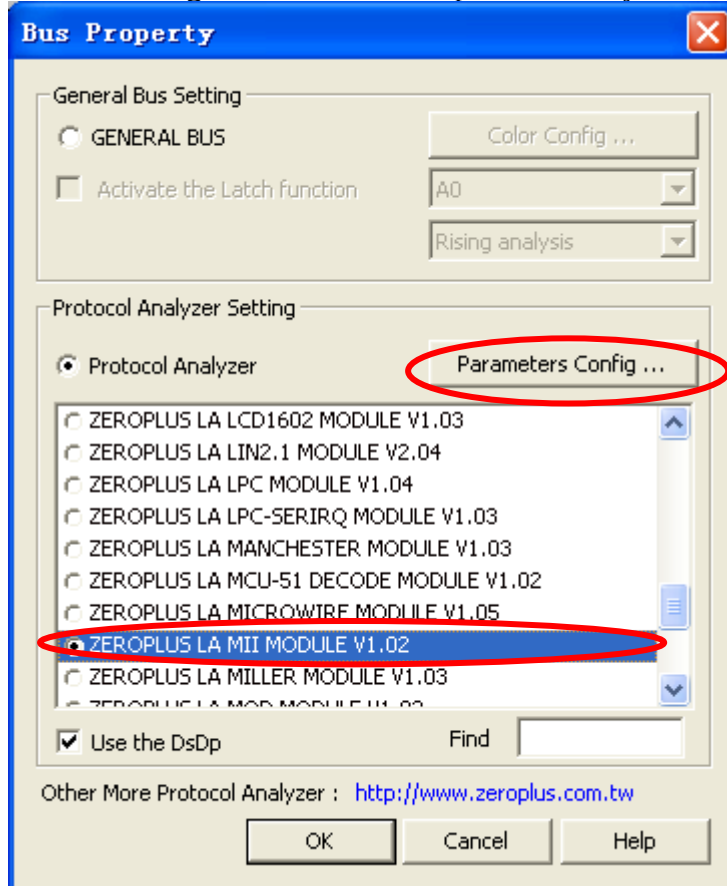


STEP 4. Click Register tab to type the serial key number of **MI1** .Then, press **Register**.

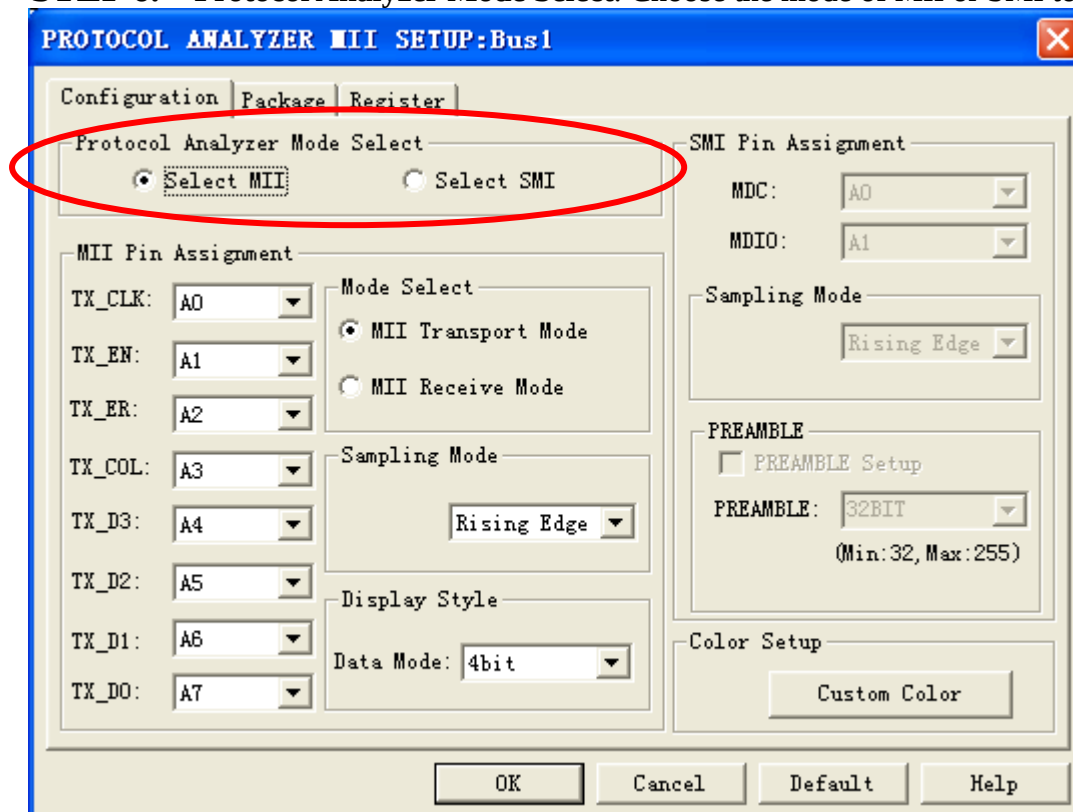




STEP 5. After completing **Register**, come back to the **Bus property** dialog box, then click the **Parameters Configuration** to start the protocol analyzer MII setup.

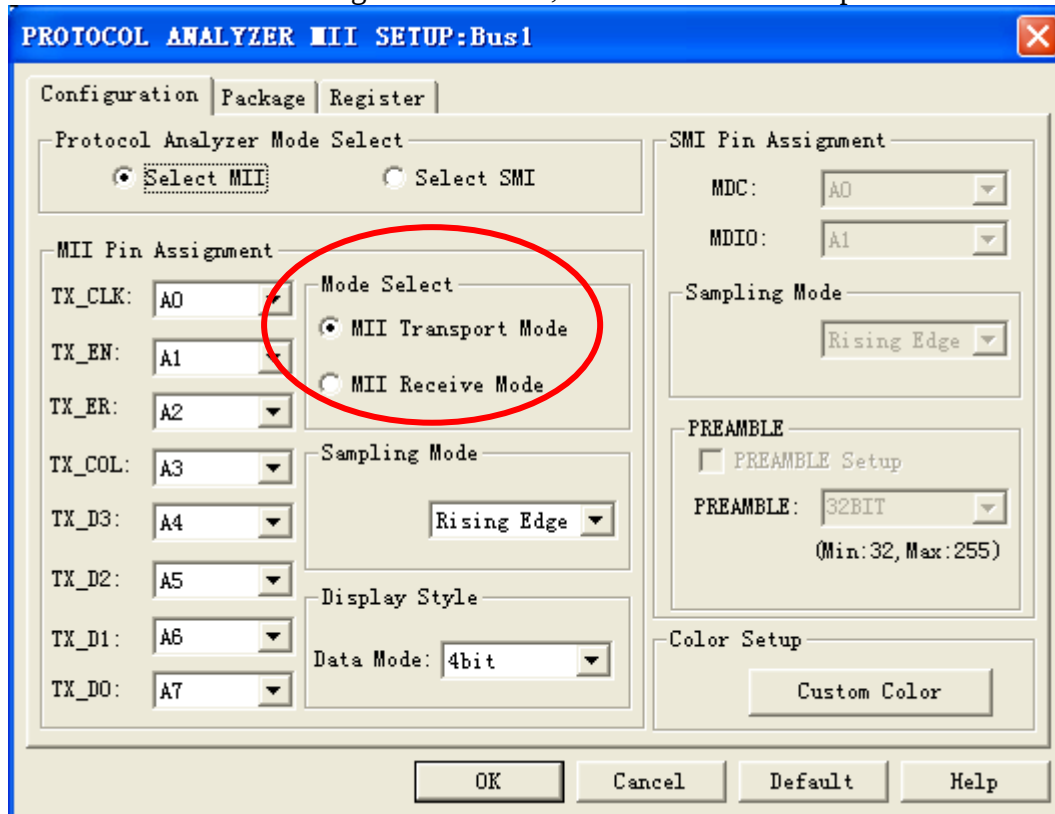


STEP 6. Protocol Analyzer Mode Select. Choose the mode of MII or SMI to decode.

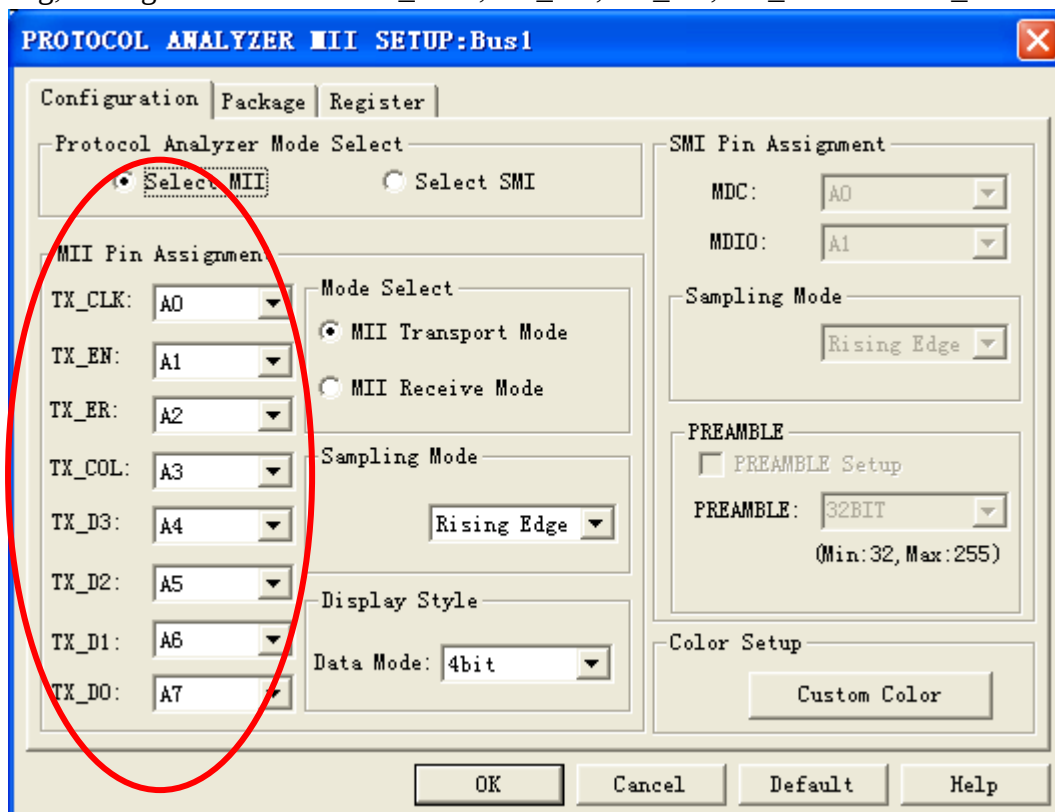




STEP 7. After selecting the MII mode, choose the MII Transport Mode or MII Receive Mode.

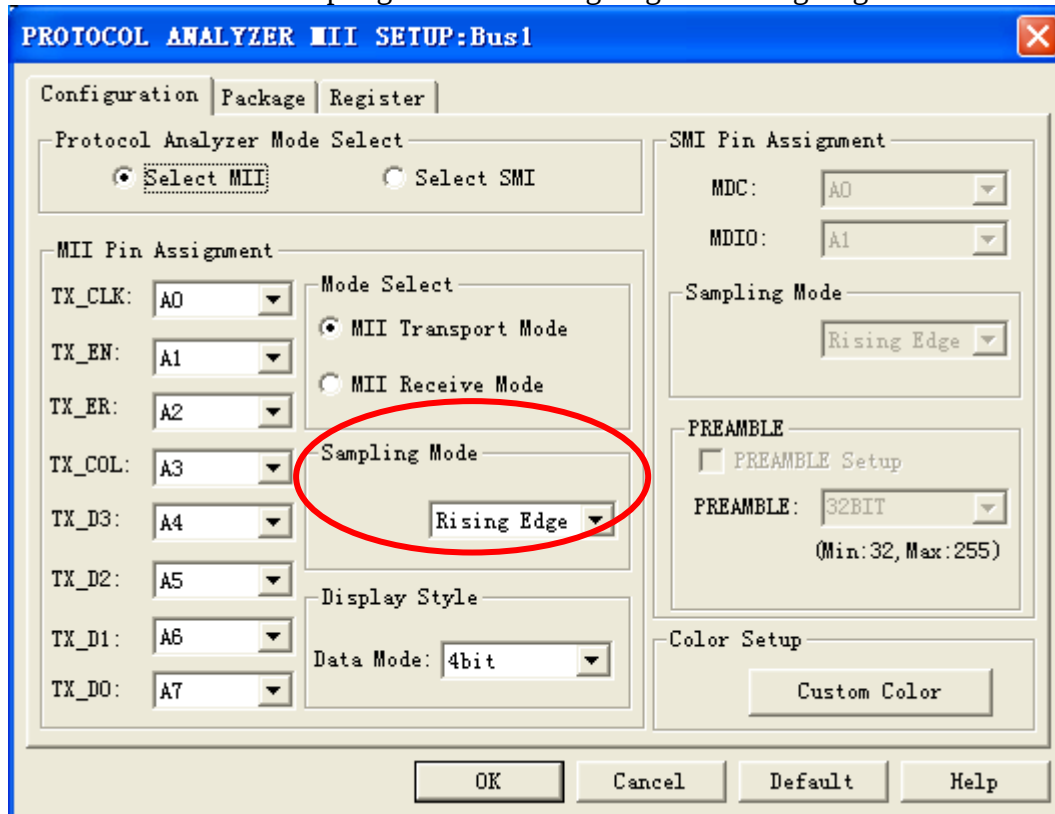


STEP 8. If selecting **MII Transport Mode**, users need to set eight corresponding channels for decoding; the eight channels are TX_CLK, TX_EN, TX_ER, TX_COL and TX_DATA0~TX_DATA3.

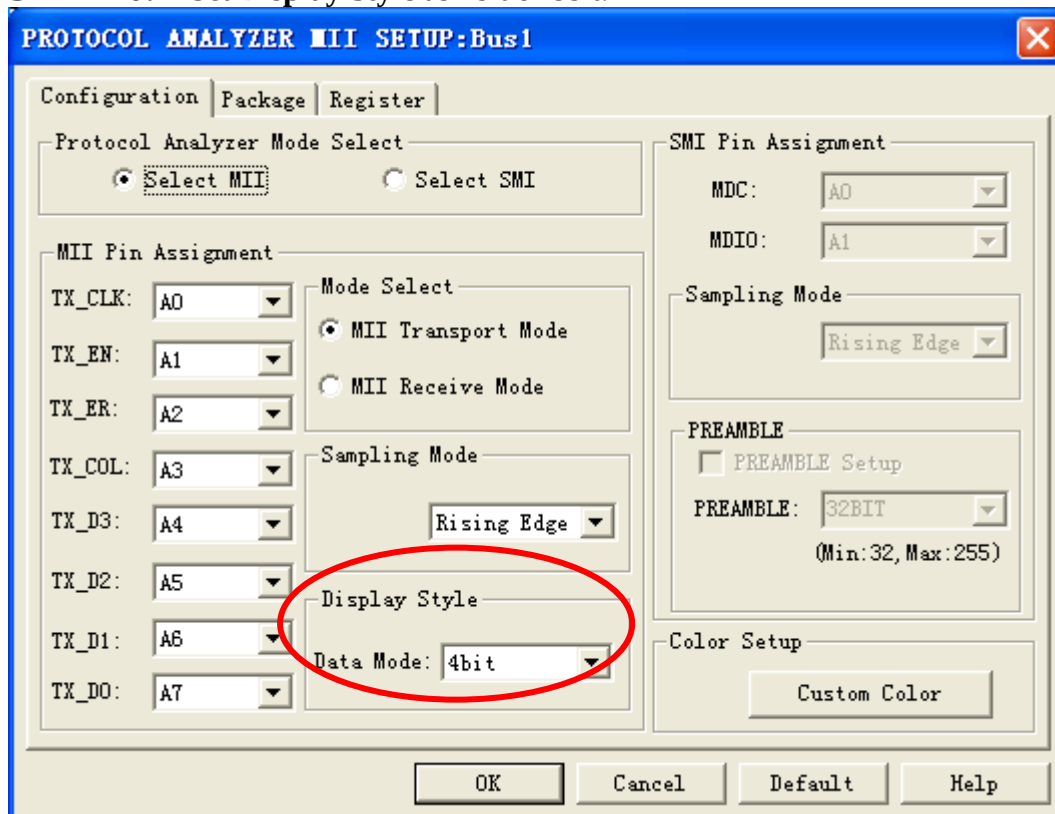




STEP 9. Set the Sampling Mode as Rising Edge or Falling Edge.

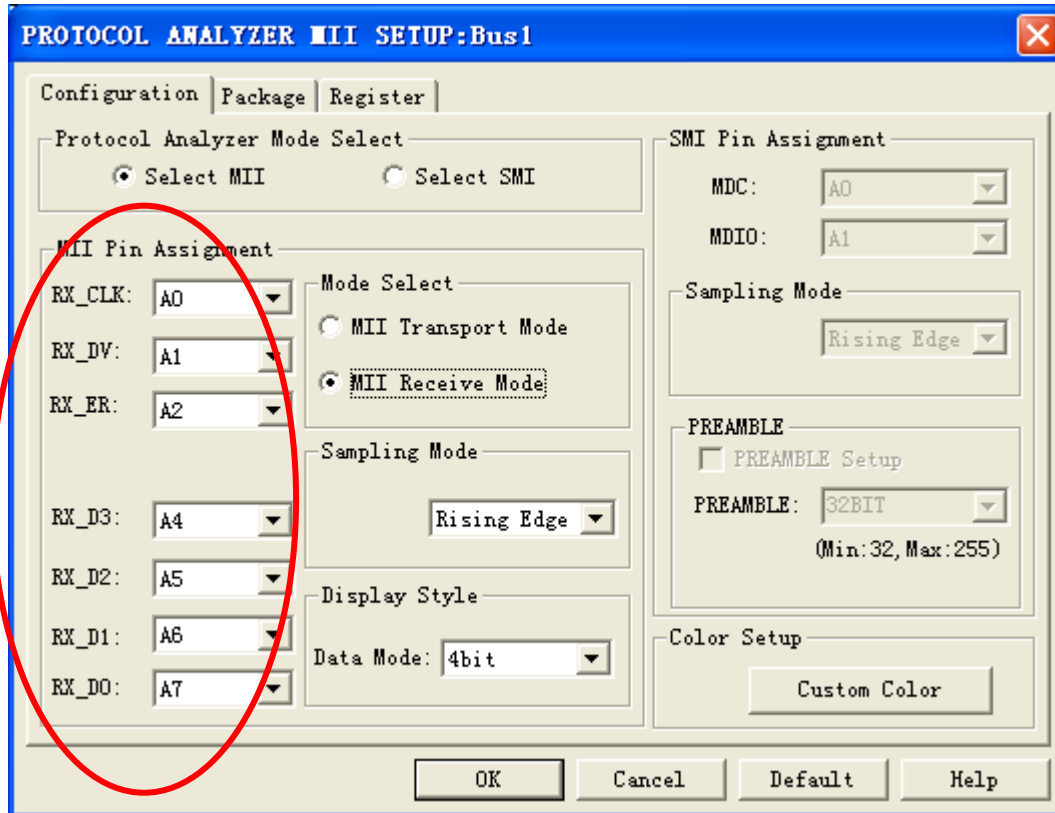


STEP 10. Set Display Style as 4bit or 8bit.

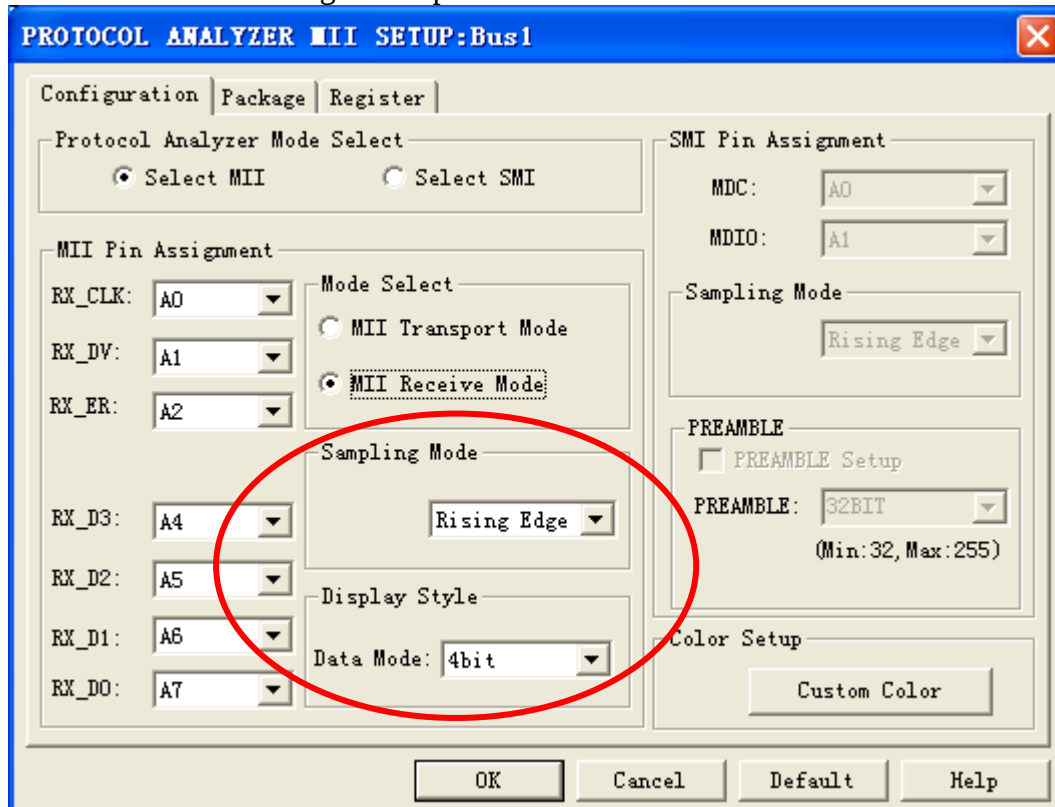




STEP 11. If selecting **MII Receive Mode**, users needs to set seven corresponding channels for decoding; the seven channels are RX_CLK, RX_ER, RX_DV and RX_DATA0~RX_DATA3.

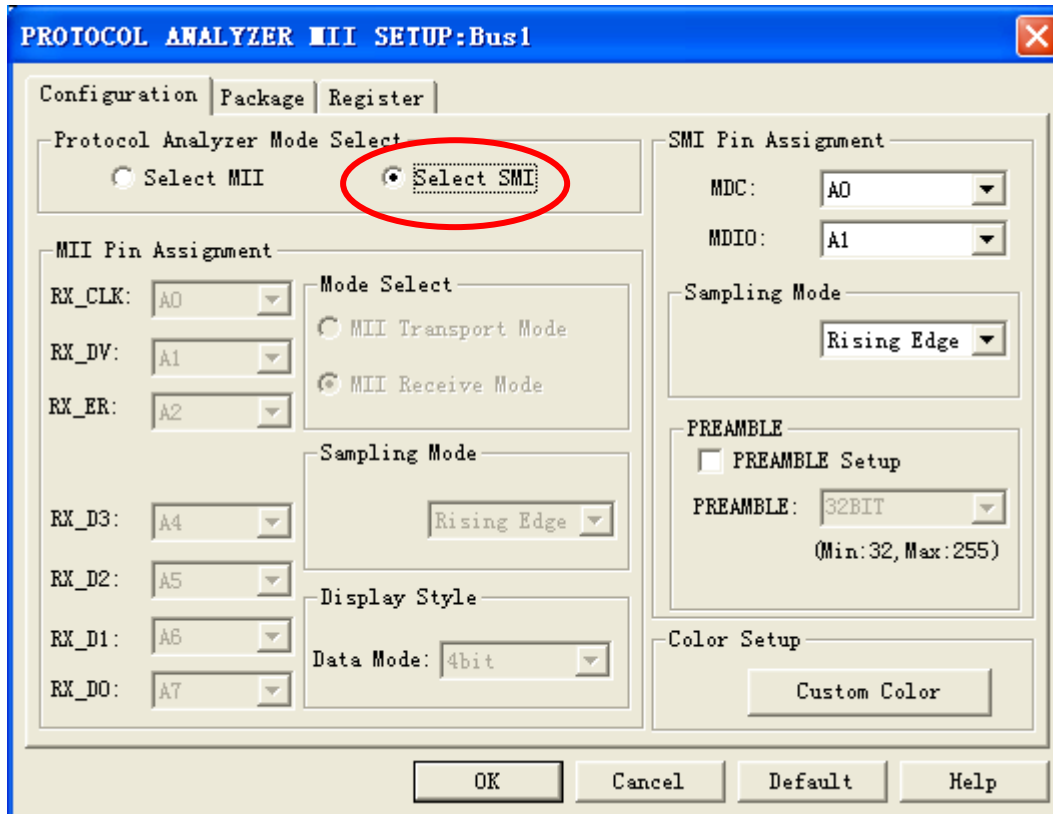


STEP 12. The setting of this part is the same as STEP 9 and STEP 10.

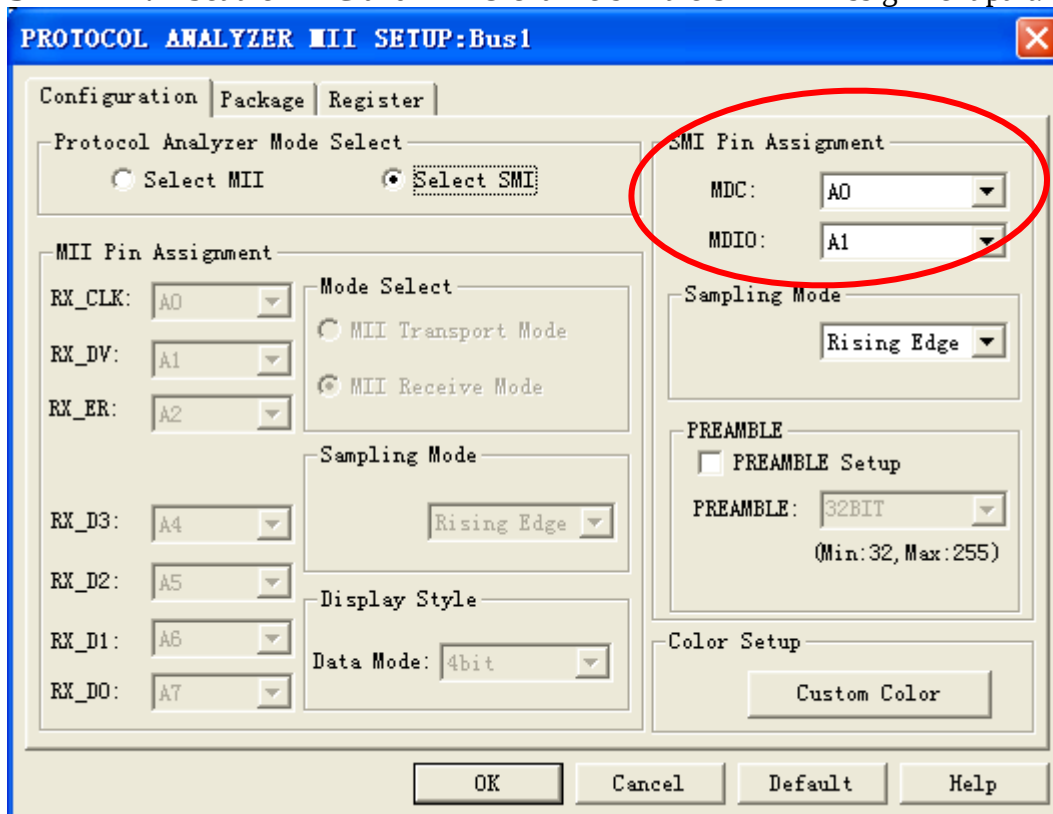




STEP13. Set SMI mode.

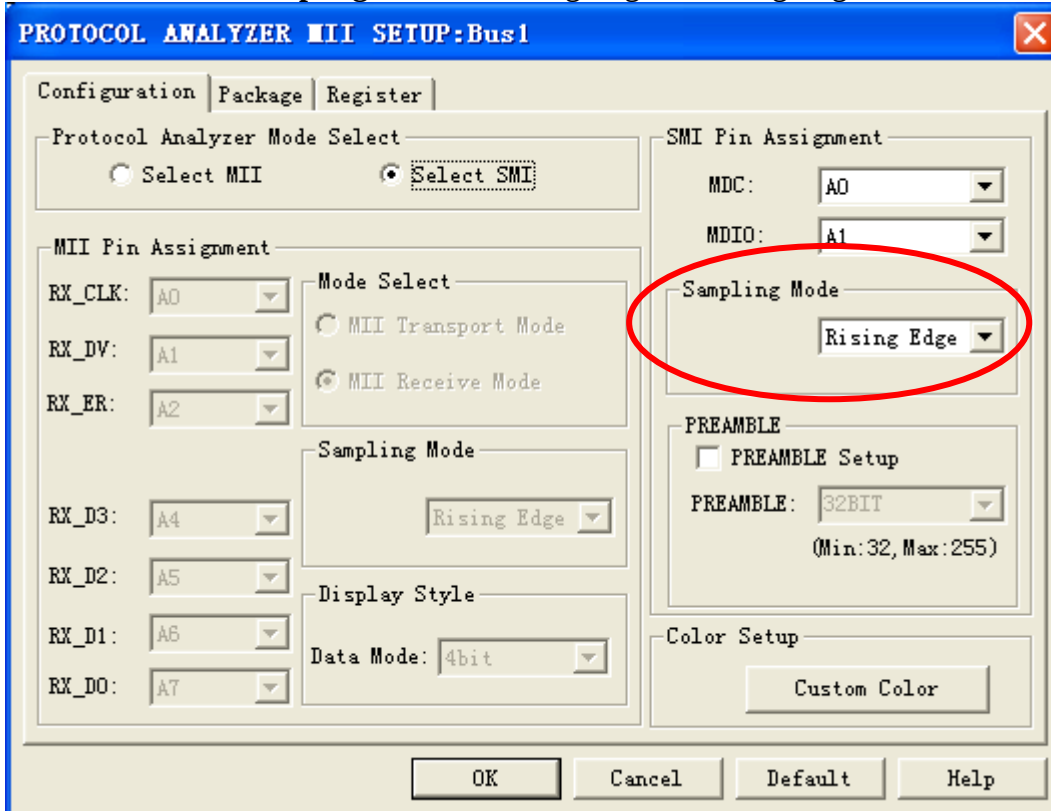


STEP 14. Set the MDC and MDIO channels in the SMI Pin Assignment part.

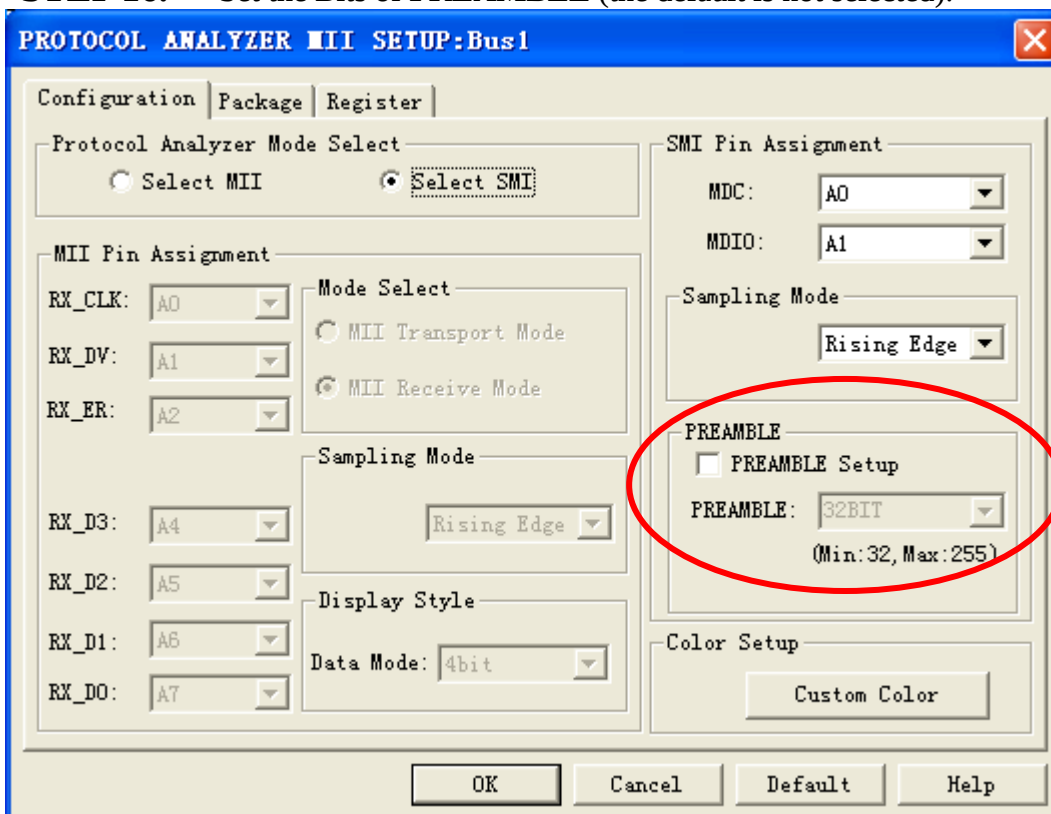




STEP 15. Set **Sampling Mode** as Rising Edge or Falling Edge in the SMI mode.

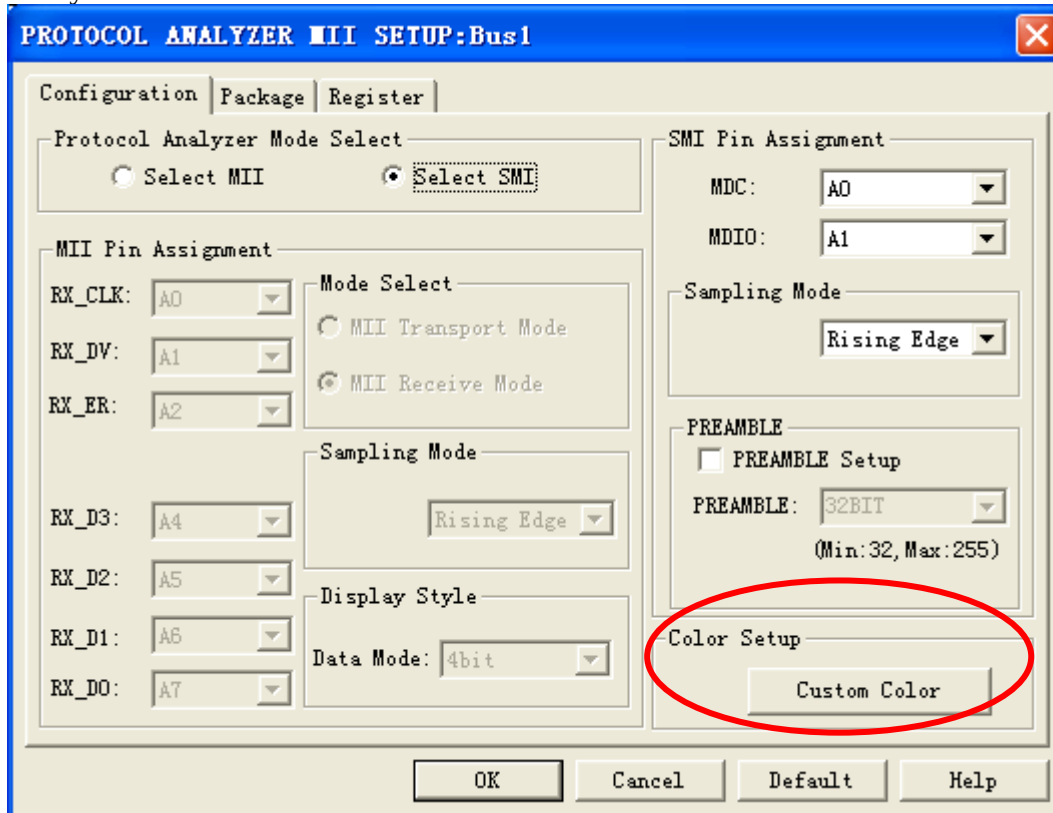


STEP 16. Set the Bits of **PREAMBLE** (the default is not selected).

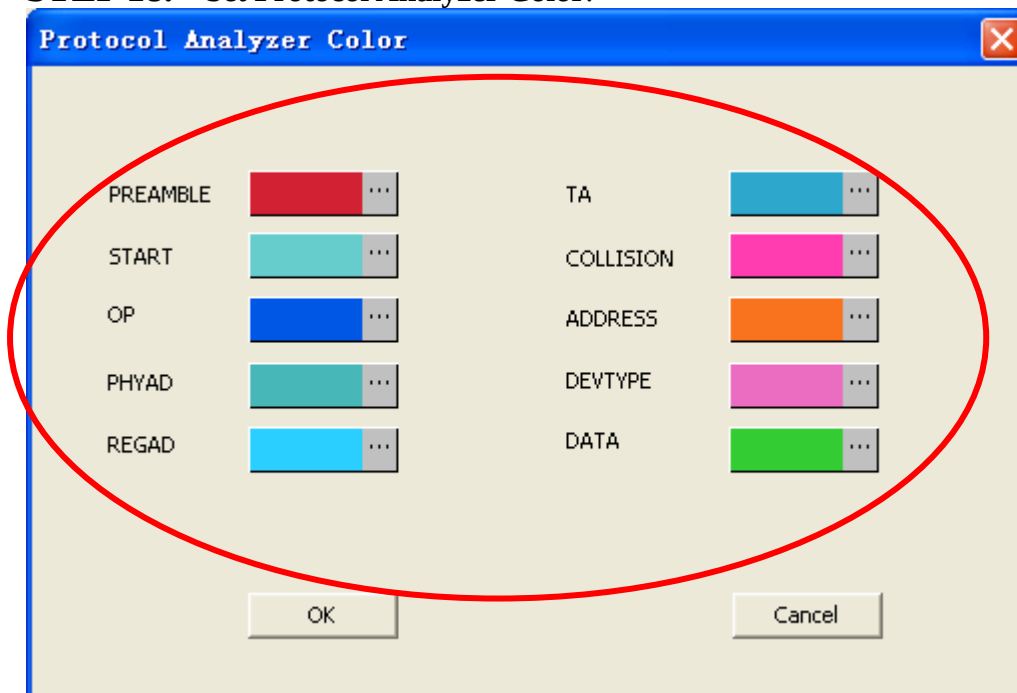




STEP 17. Before setting Protocol Analyzer Package Color, users need to choose Protocol Analyzer Color first.



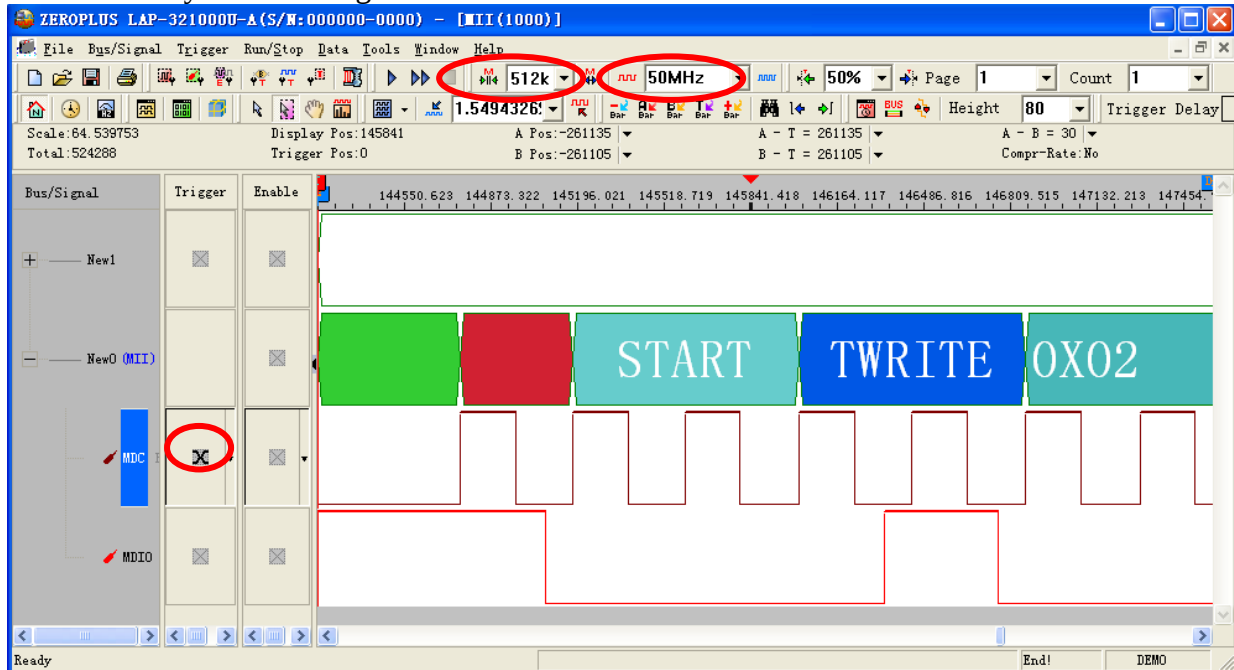
STEP 18. Set Protocol Analyzer Color.



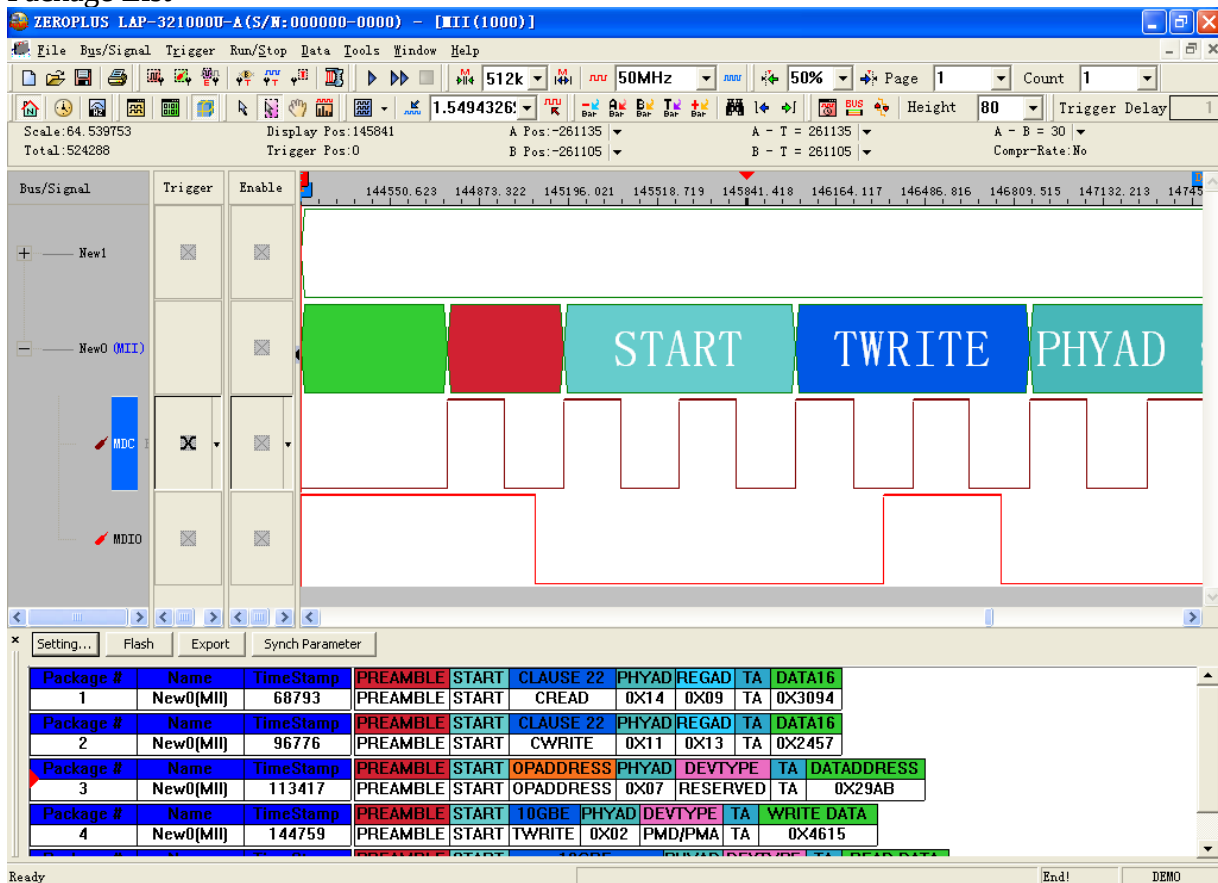


STEP 19. Following pictures show the completion of the protocol analyzer decoding and the package list for MII in the SMI mode. The Trigger condition is set as Either Edge; the Memory depth is 512K; the Sampling frequency is 50MHZ.

Protocol Analyzer Decoding



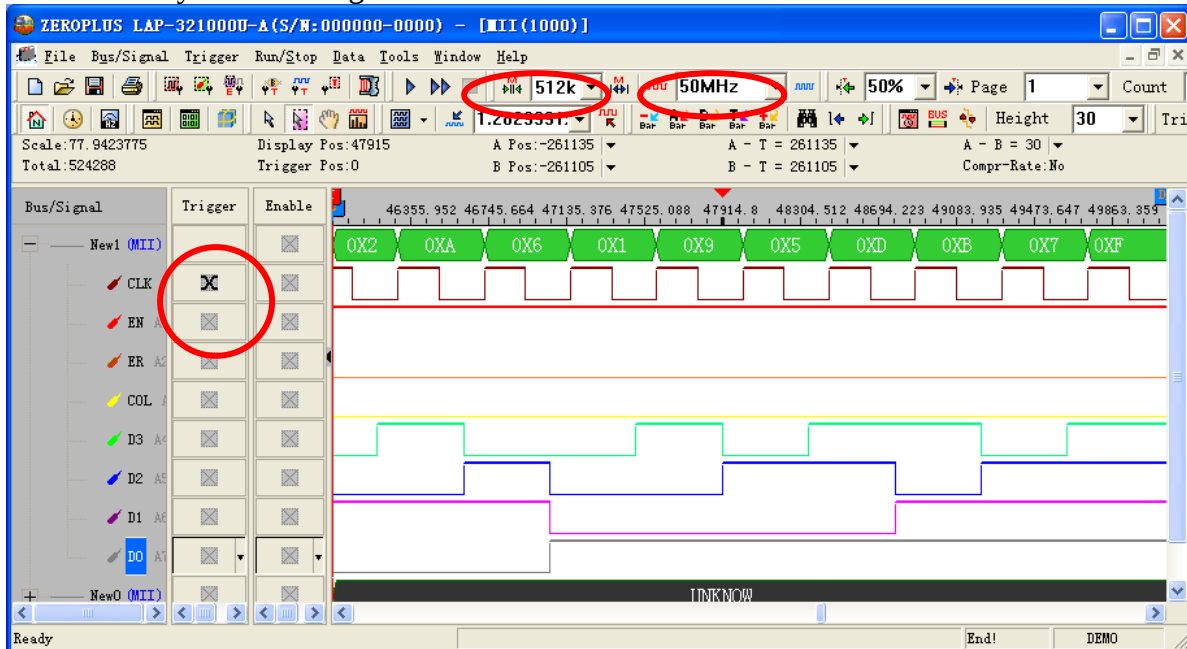
Package List





STEP 20. Following pictures show the completion of the protocol analyzer decoding and the package list for MII in the MII mode. The Trigger condition is set as Either Edge; the Memory depth is 512K; the Sampling frequency is 50MHZ.

Protocol Analyzer Decoding



Package List

