



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

SPECIFICATION

MODEL: JTAG 2.0 Specification

PART NO : B09004

VERSION : V1.04

Approver		Check	Design
GM	PM		

Customer Confirm

* Please fax the file to
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signing .

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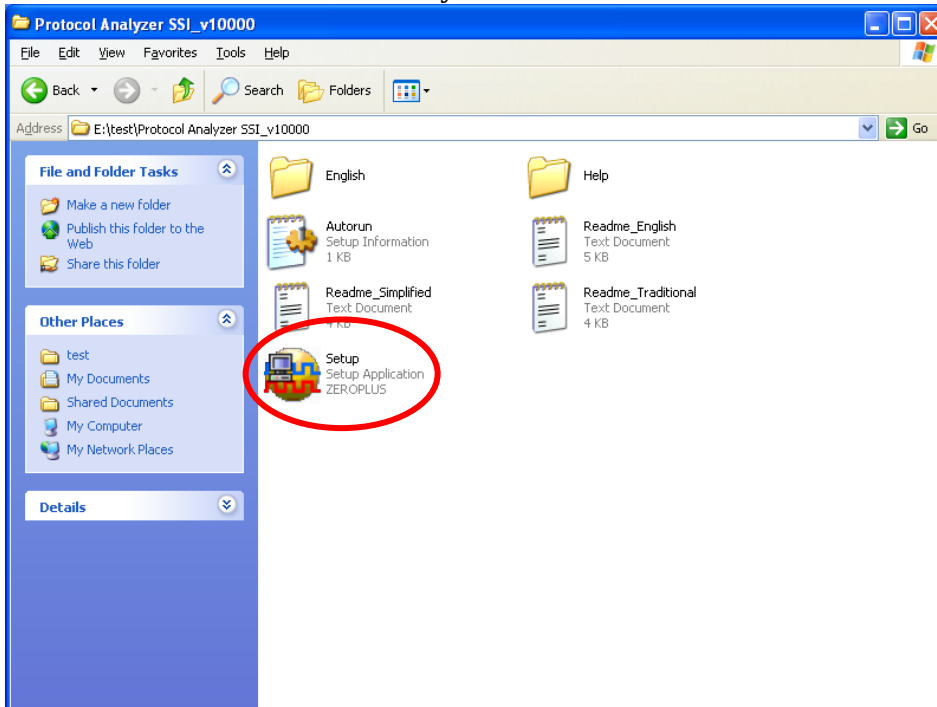
1 Software Installation

Please install the software as the following steps:

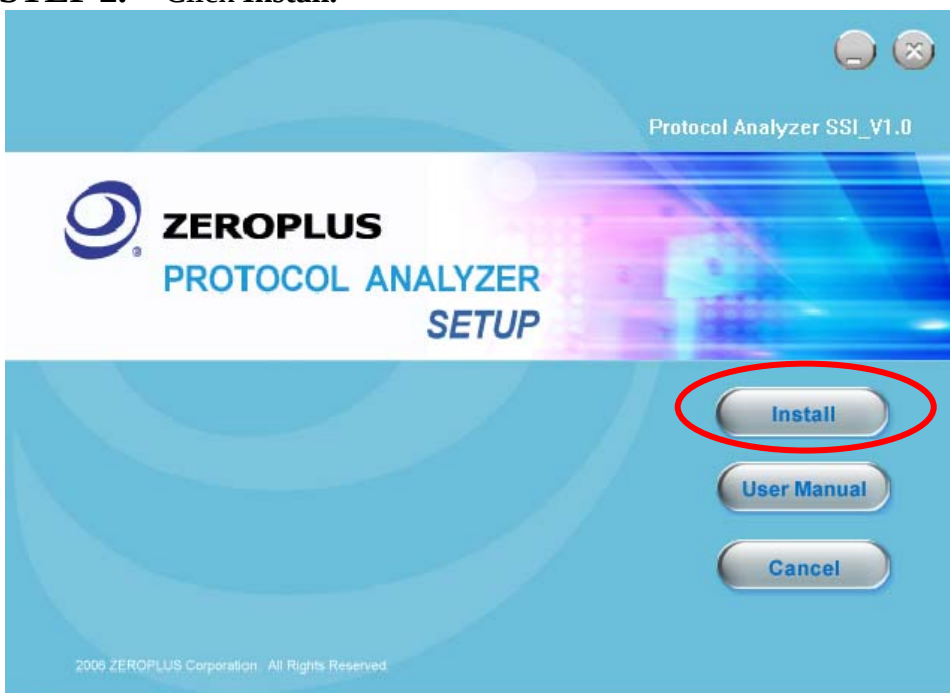
※ Remark: 1. The installation steps for all protocol analyzers are the same; you can complete the installation by following procedures. Following is an example on how to install protocol analyzer SSI.

※ 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.

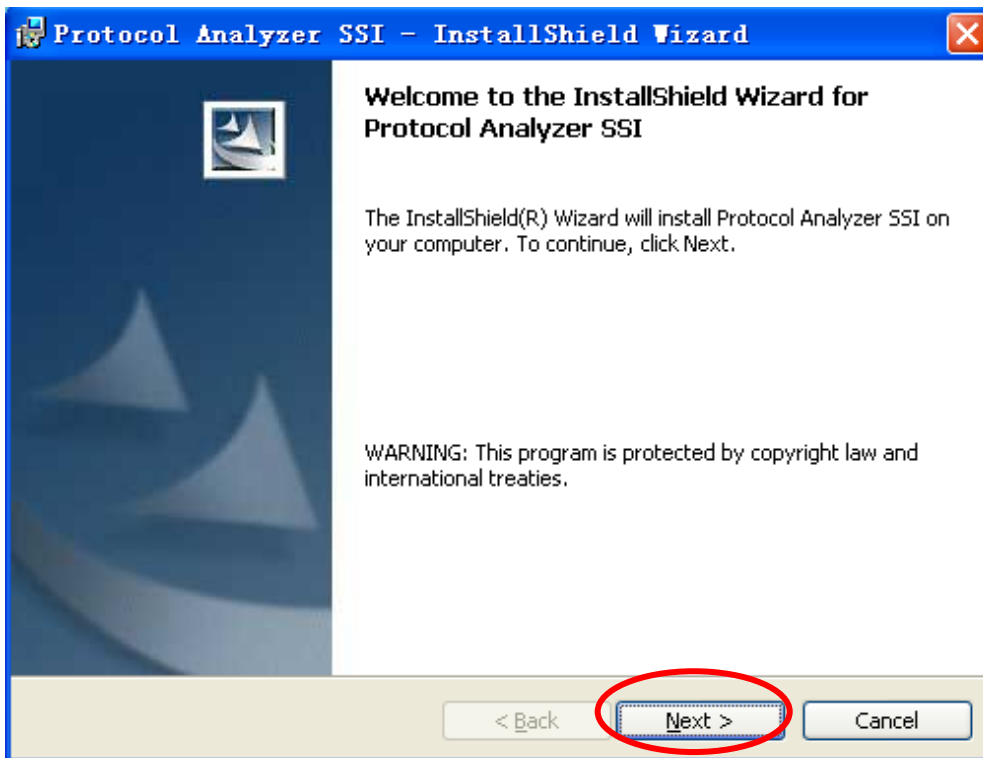


STEP 2. Click Install.





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**.

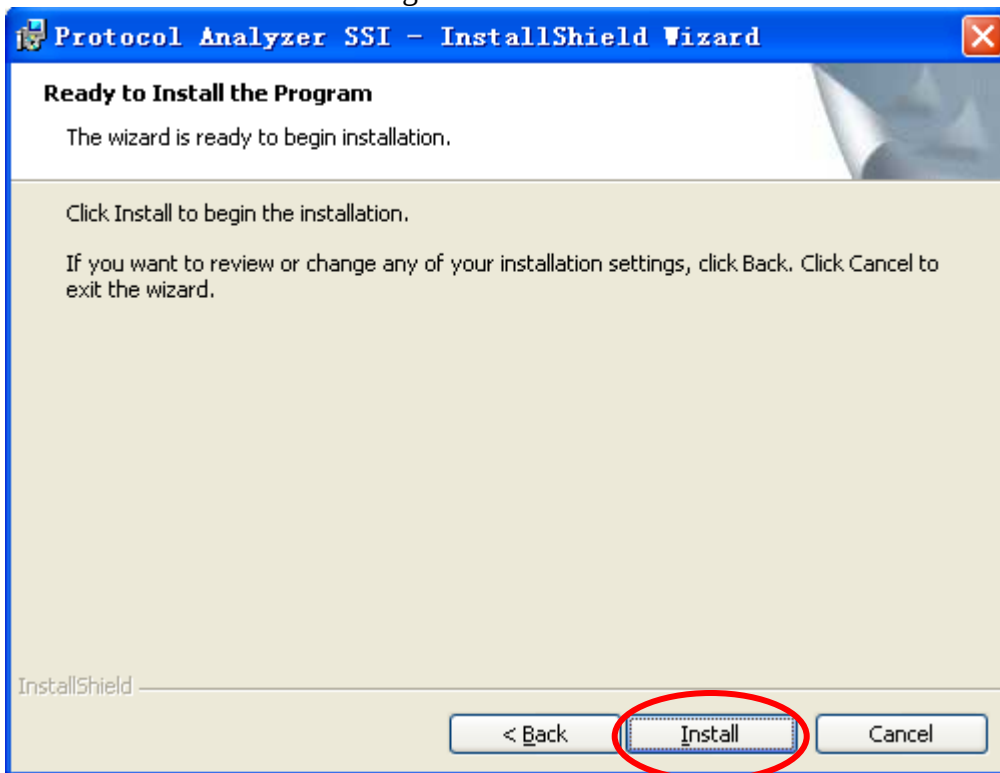
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It contains a section "Customer Information" with the instruction "Please enter your information." Below this are two text input fields: "User Name:" with the value "sunshine" and "Organization:" with the value "zeroplus". There are two radio button options under "Install this application for:": "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".

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

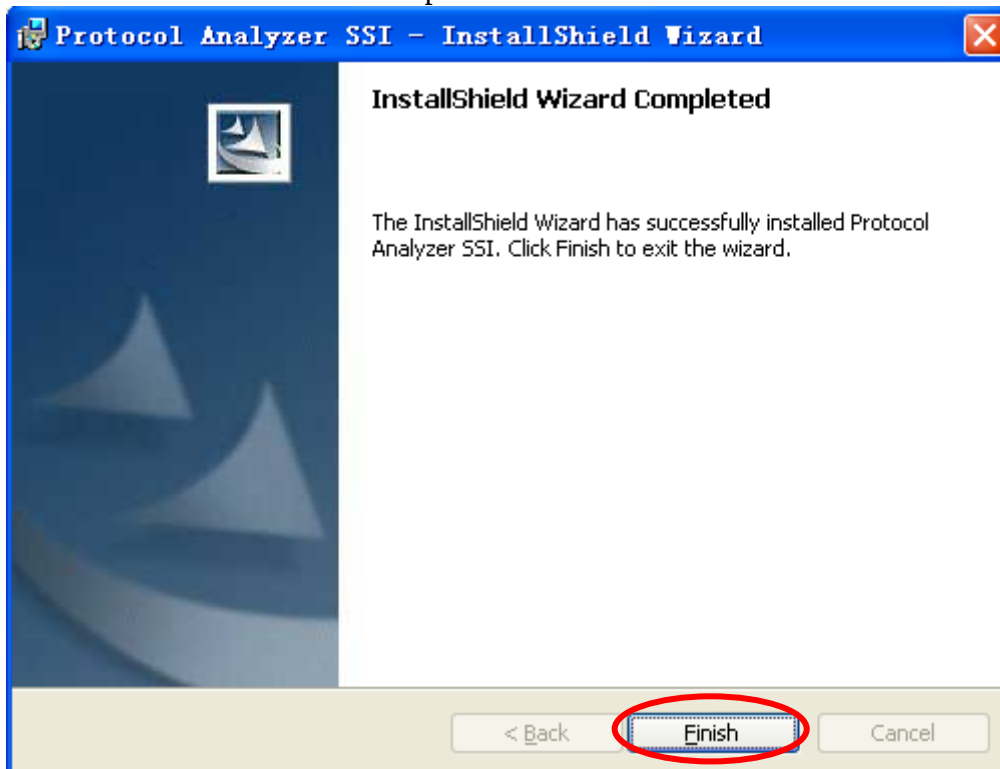
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It contains a section "Setup Type" with the instruction "Choose the setup type that best suits your needs." Below this is the text "Please select a setup type." There are two radio button options: "Complete" (selected) and "Custom". Each option has a small icon and a description. The "Complete" option description is "All program features will be installed. (Requires the most disk space.)". The "Custom" option description is "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 >" (circled in red), and "Cancel".



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



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

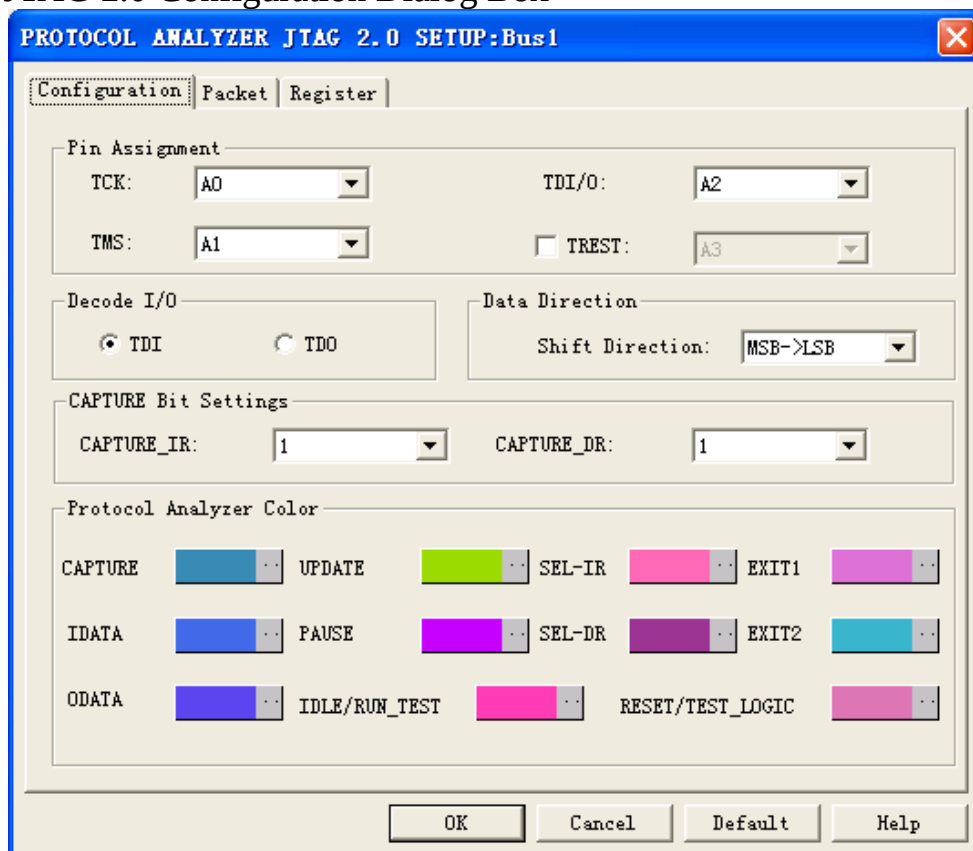




2 User Interface

In the configuration, please refer to the below images to select options of setting JTAG 2.0 module.

JTAG 2.0 Configuration Dialog Box



Pin Assignment:

When the TREST key isn't activated, JTAG 2.0 has three lines (There are TCK, TDI/O and TMS). Hereinto, all the channels can be selected from their pull-down menus. And the default of TCK is A0; the default of TDI/O is A2; the default of TMS is A1.

TREST:

TREST can be selected, and the default of TREST isn't activated.

Decode I/O:

Decode I/O has two decoding modes in the above dialog box, TDI and TDO. Users can select either one as their requirements.

Data Direction:

The **Shift Direction** can be selected from its pull-down menu, MSB->LSB and LSB->MSB, and the default direction is MSB->LSB.

CAPTURE Bit Settings:

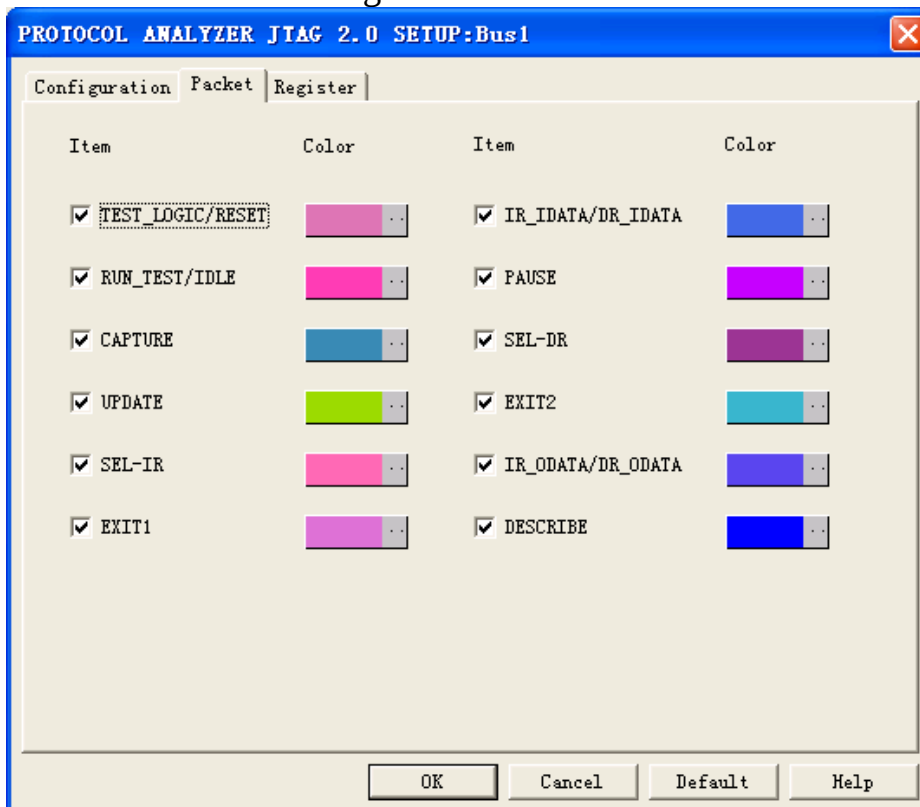
Users can select the CAPTURE_IR and CAPTURE_DR, and the selectable value is from "1" to "10"; the default is "1".

Protocol Analyzer Color:

The **Protocol Analyzer Color** can be varied by users.

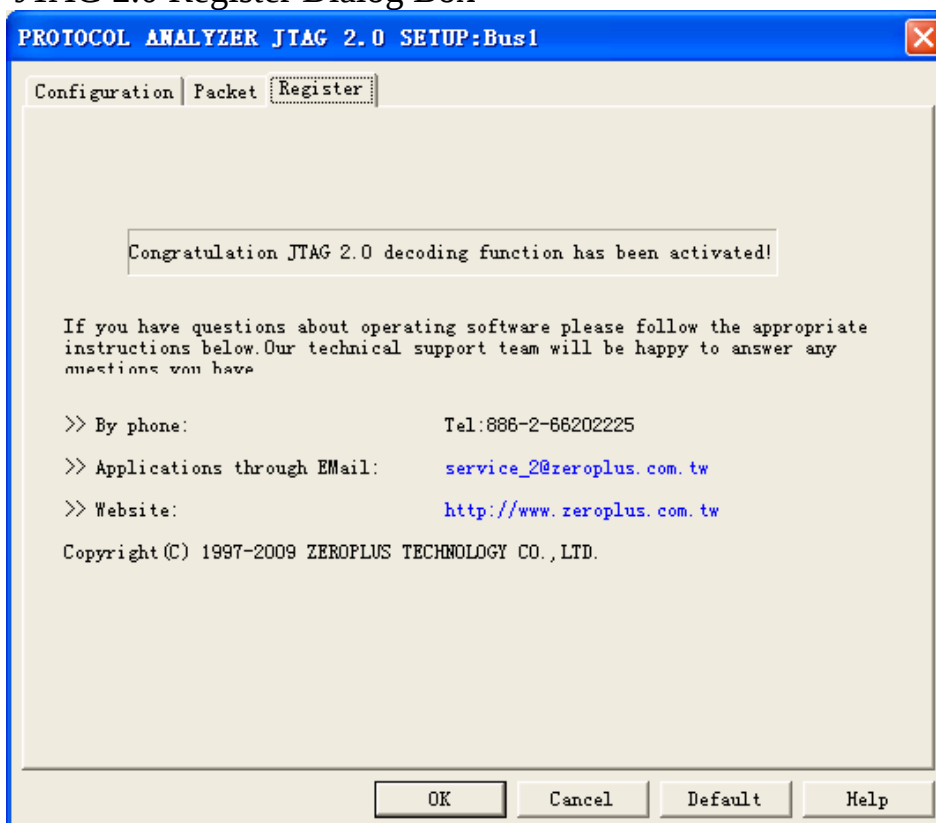


JTAG 2.0 Packet Dialog Box



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

JTAG 2.0 Register Dialog Box

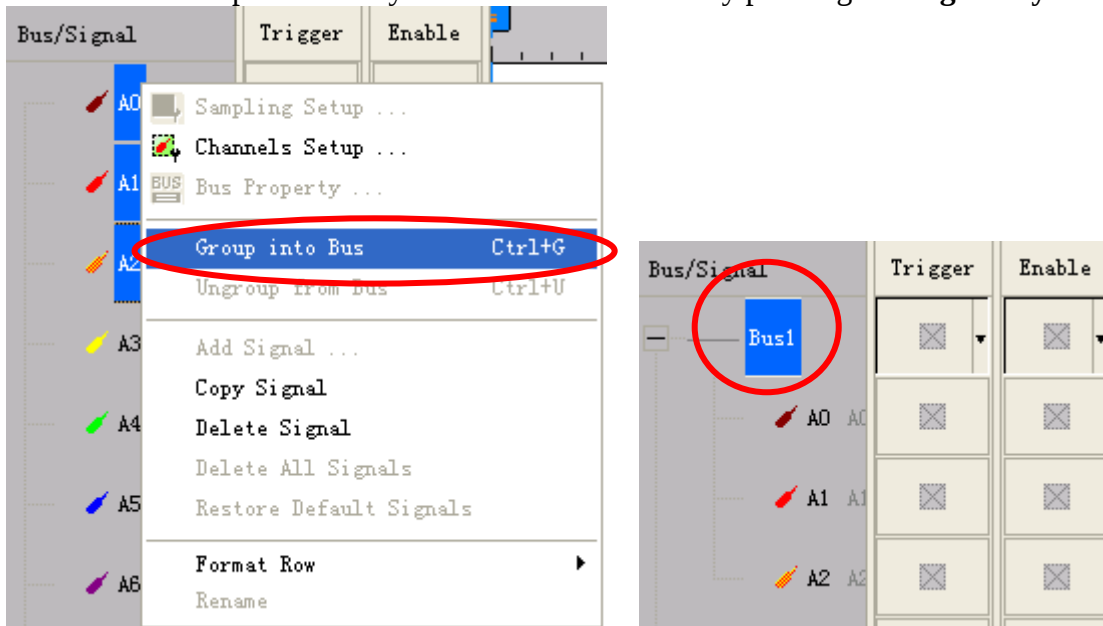


There is written ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

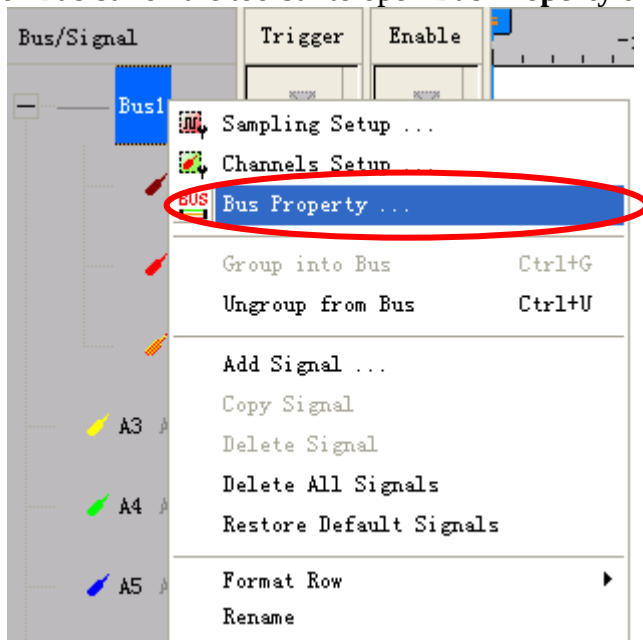


3 Operating Instructions

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

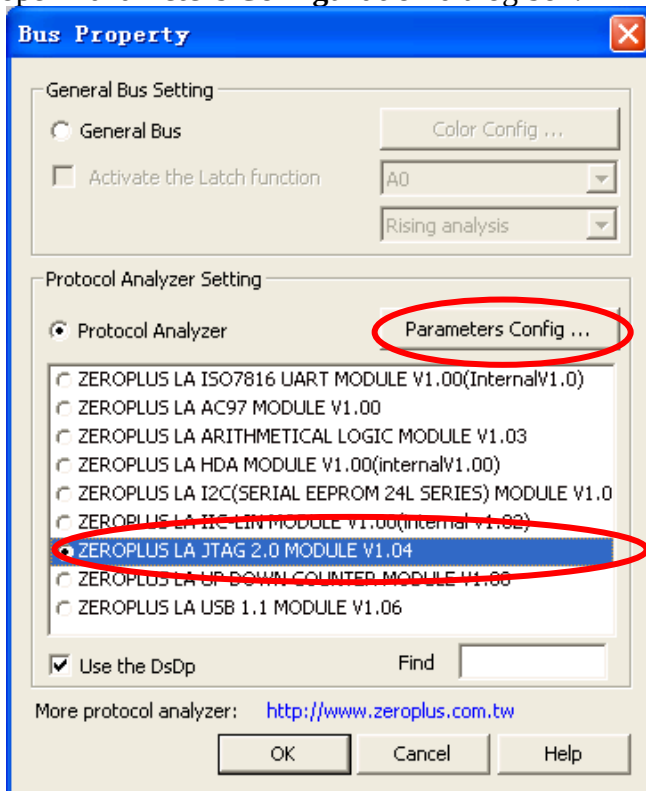


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** bar on the toolbar to open **Bus Property** dialog box.

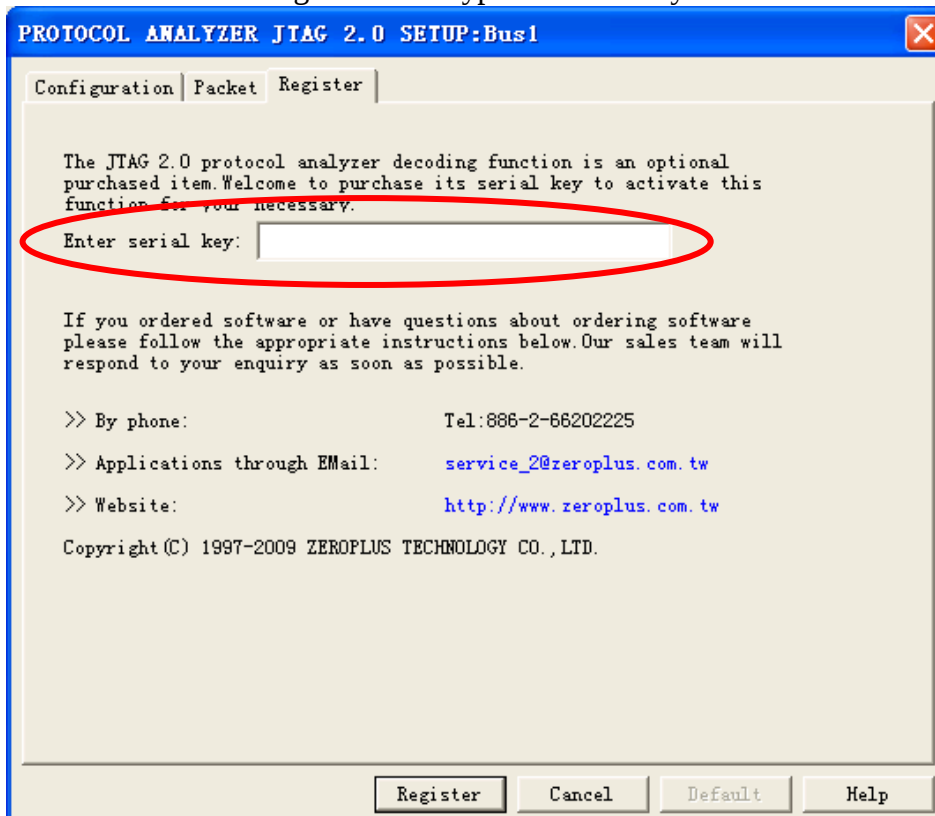




STEP 3. For Protocol Analyzer JTAG 2.0 Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA JTAG 2.0 MODULE V1.04**. Next click **Parameters Configuration** to open **Parameters Configuration** dialog box.

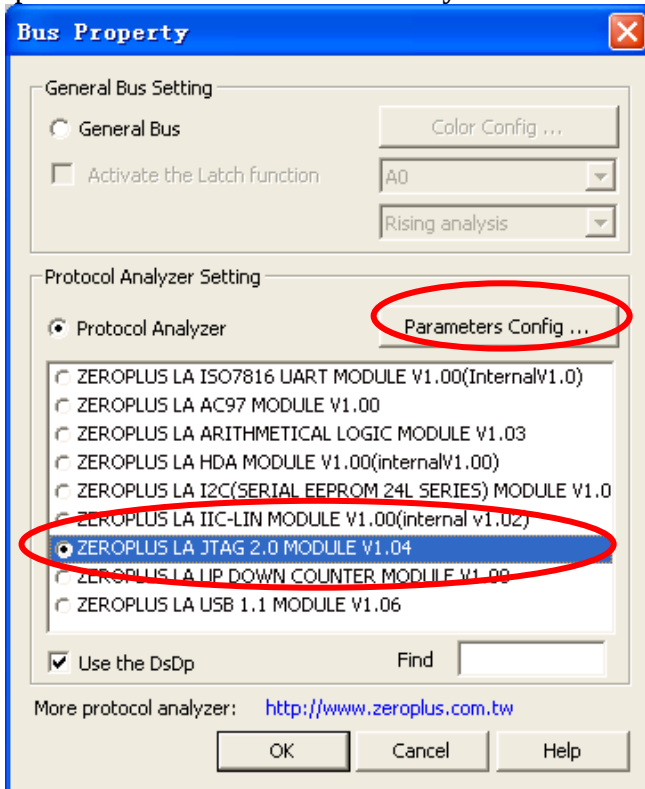


STEP 4. Press Register tab to type the serial key number of JTAG 2.0. Then, press **Register**.

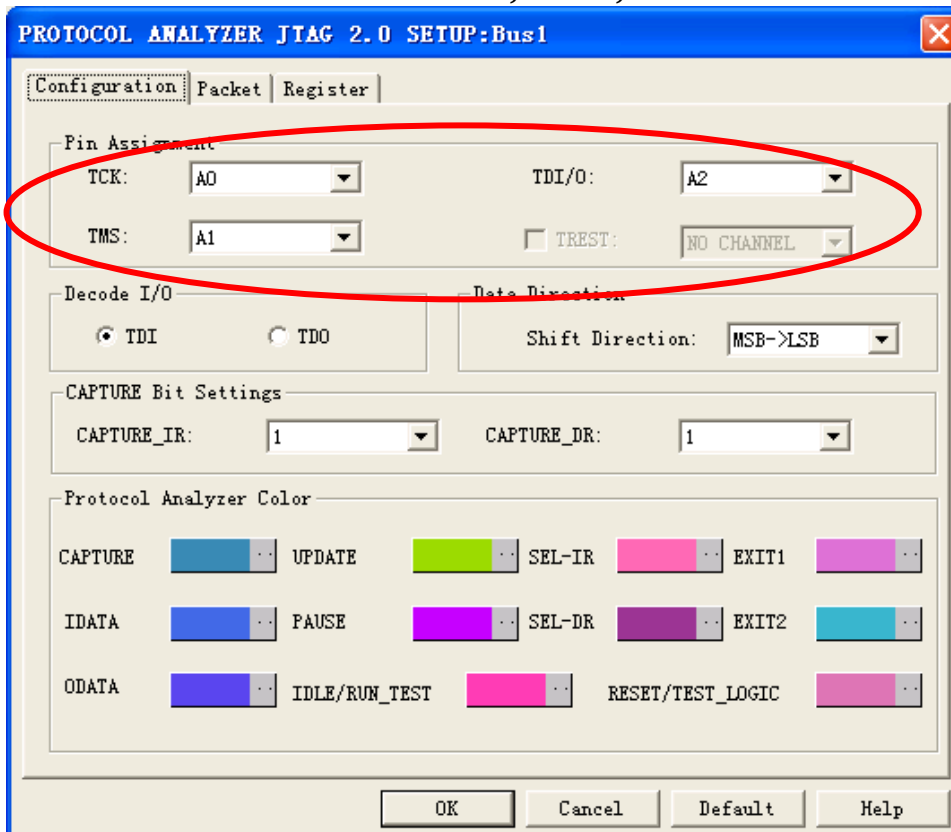




STEP 5. Click **Parameters Configuration** again, and open the configuration dialog box to set the parameters for the **Protocol Analyzer JTAG 2.0**.

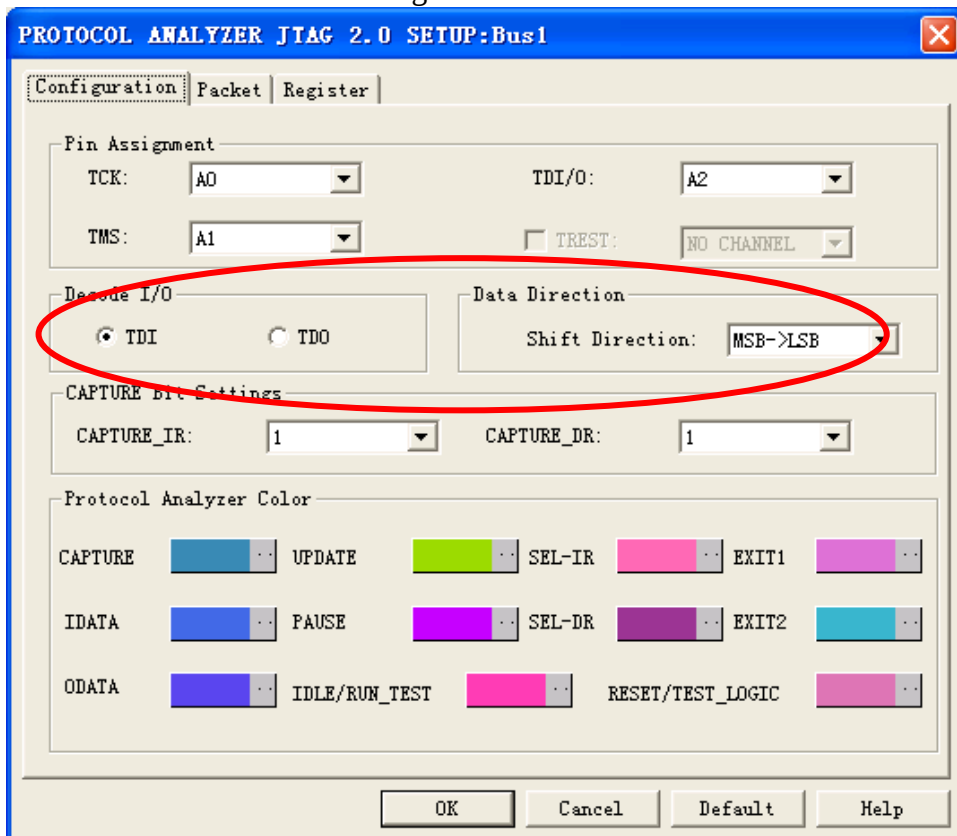


STEP 6. Set the channels for **TCK**, **TDI/O**, **TMS** and **TREST** in **Pin Assignment** section.

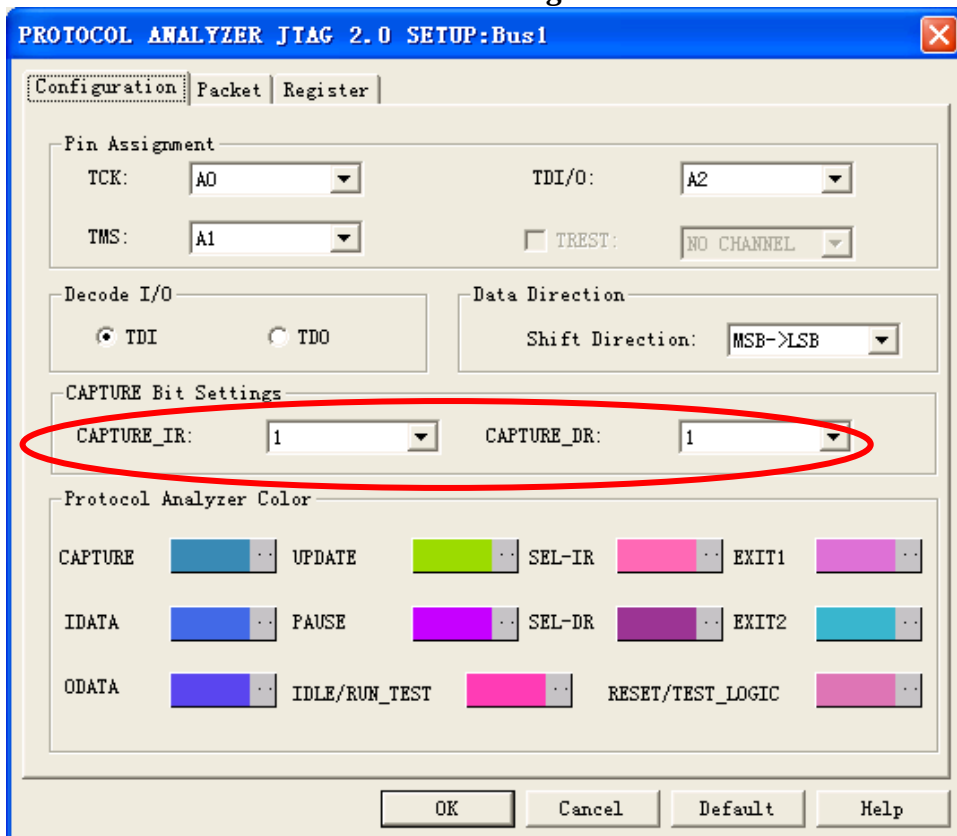




STEP 7. Select the decoding mode of **Decode I/O** and the **Data Direction**.

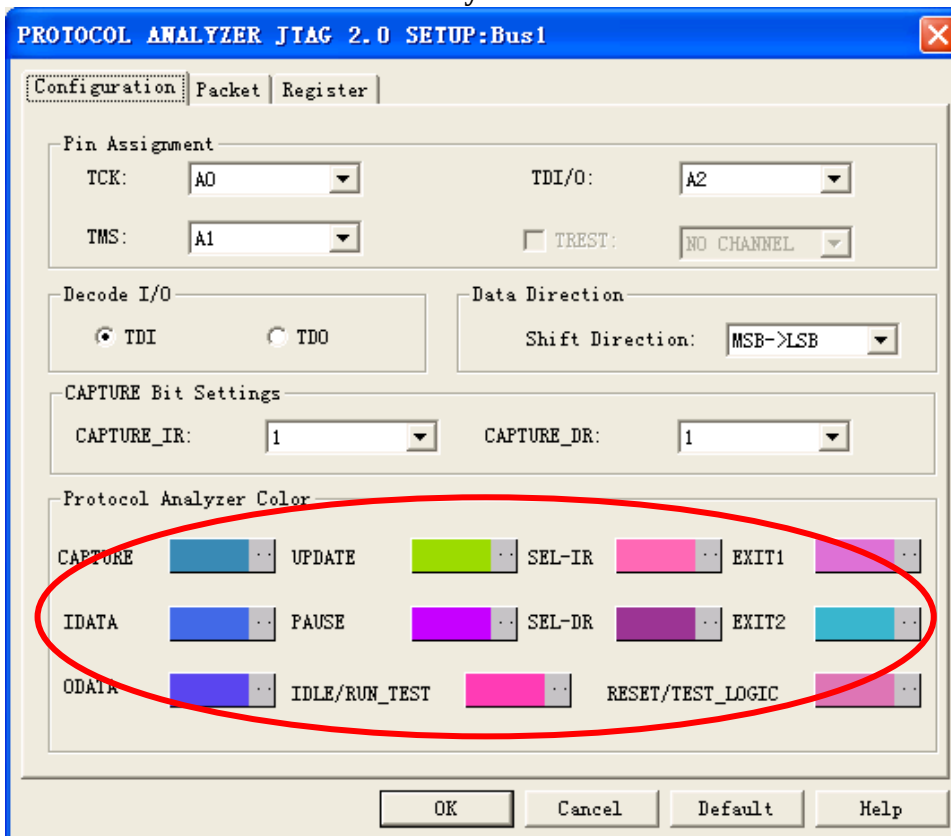


STEP 8. Set the **CAPTURE Bit Settings**.



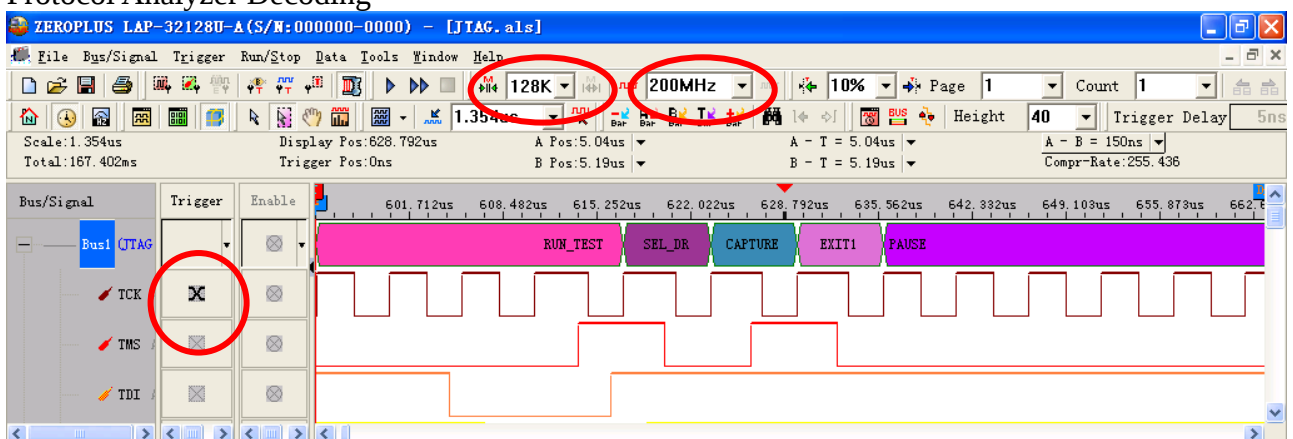


STEP 9. Set the Protocol Analyzer Color.



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

