



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

SPECIFICATION

MODEL: 025-LAP-ST7669-M

PART NO: _____

VERSION: V1.07

Approver		Check	Design
GM	PM		

Customer Confirm

*Please fax the file to ZeroPlus Technology after signing.

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Revision History

Revision No.	History	Page No.	Date	Reviser
V1.05	Renew the Version No.	14	2009-06-30	Kelly
V1.06	Add the functions of the Instruction Decoding and Data Format	14	2009-11-18	Kelly
V1.07	1. Add the Software Download and the Software Register 2. Modify the Interface	2~21	2011-01-17	Sunshine



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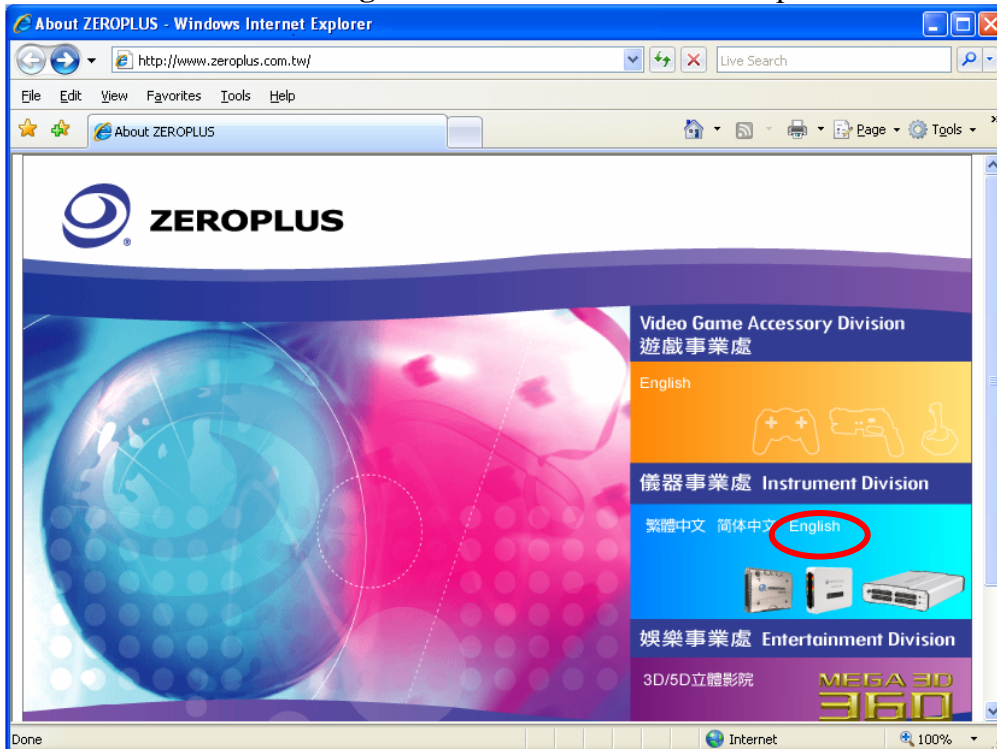
1 Software Download

Please install the software as the following steps:

Remark: 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.

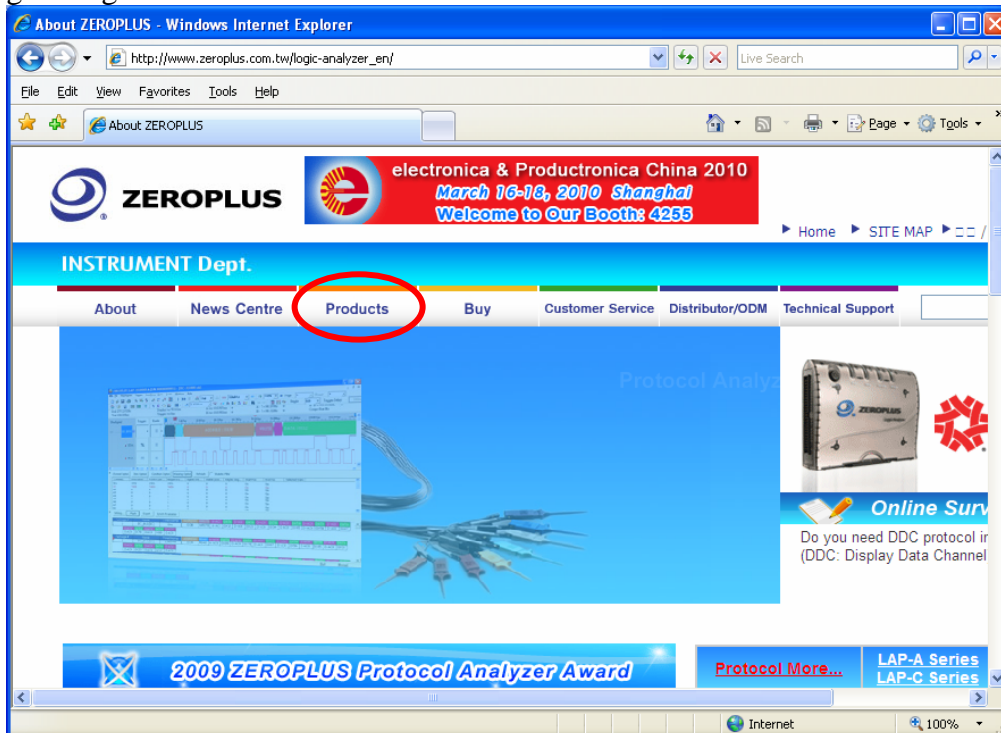
STEP 1. Visit the website of ZeroPlus: <http://www.zeroplus.com.tw>.

STEP 2. Click the **English** in the Instrument Division part on the Homepage.

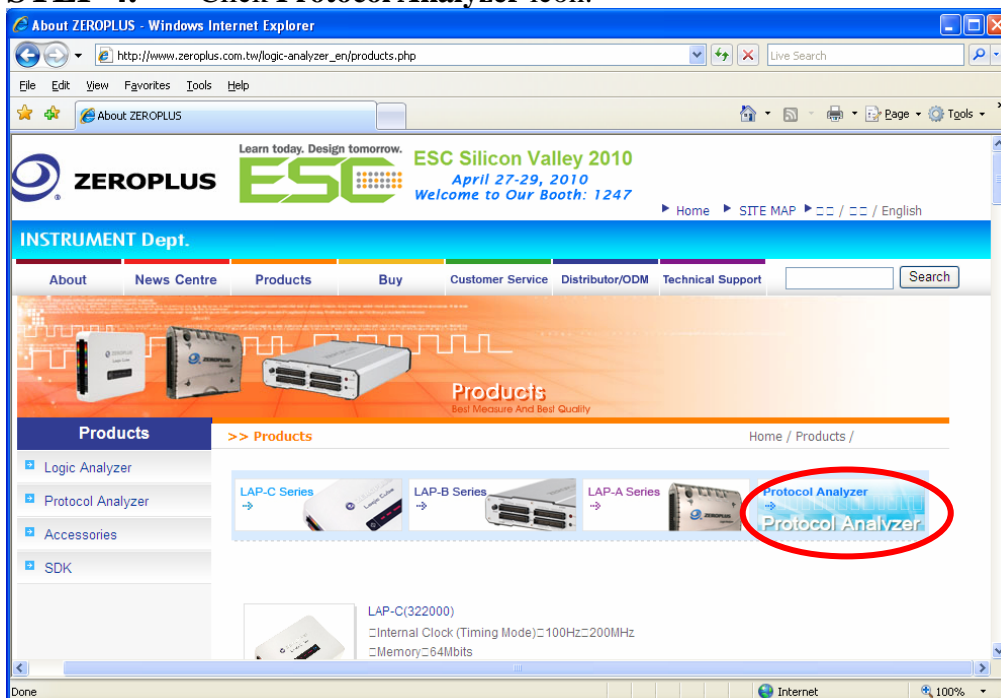




STEP 3. Click **Products** menu or select **Protocol Analyzer** item from its pull-down menu to go straight to STEP 5.

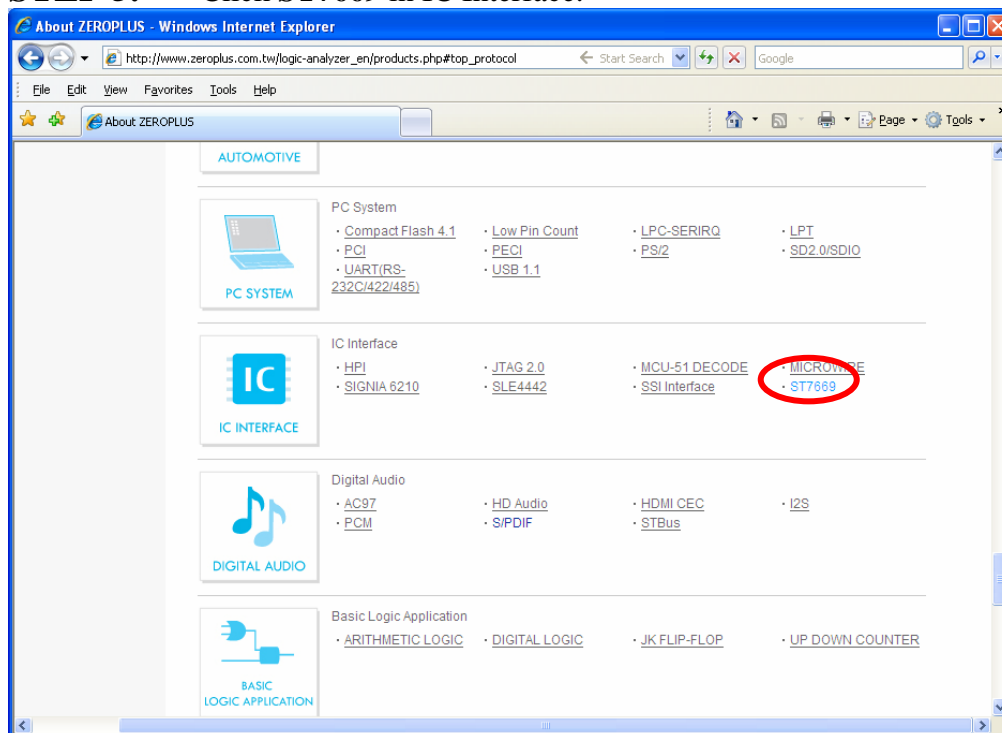


STEP 4. Click **Protocol Analyzer** icon.

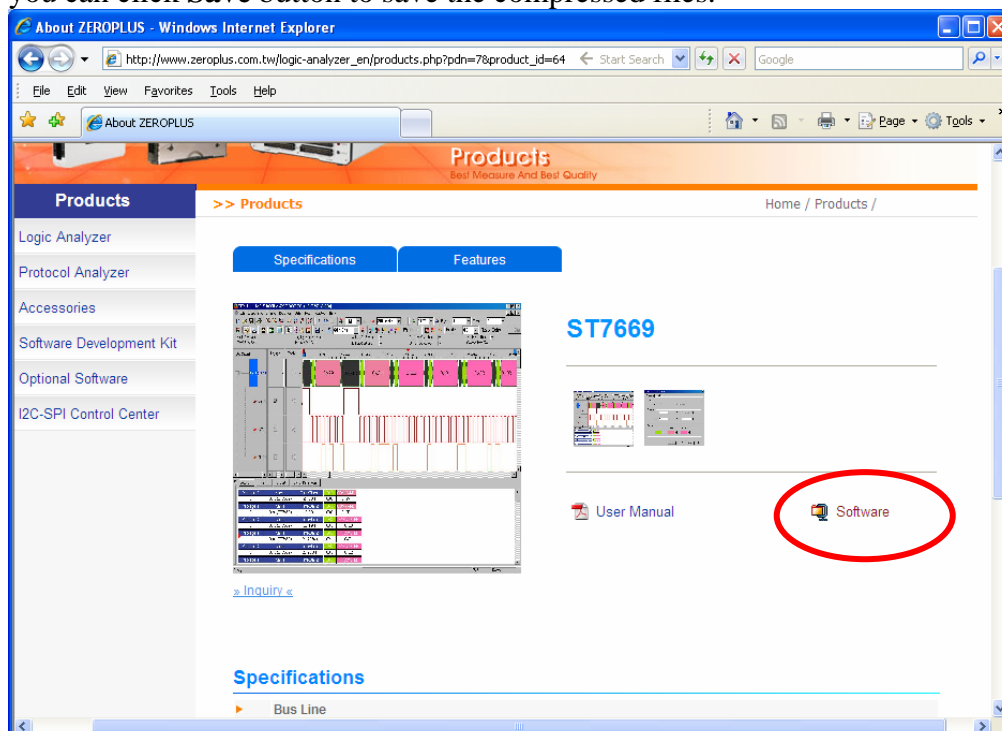




STEP 5. Click ST7669 in IC Interface.

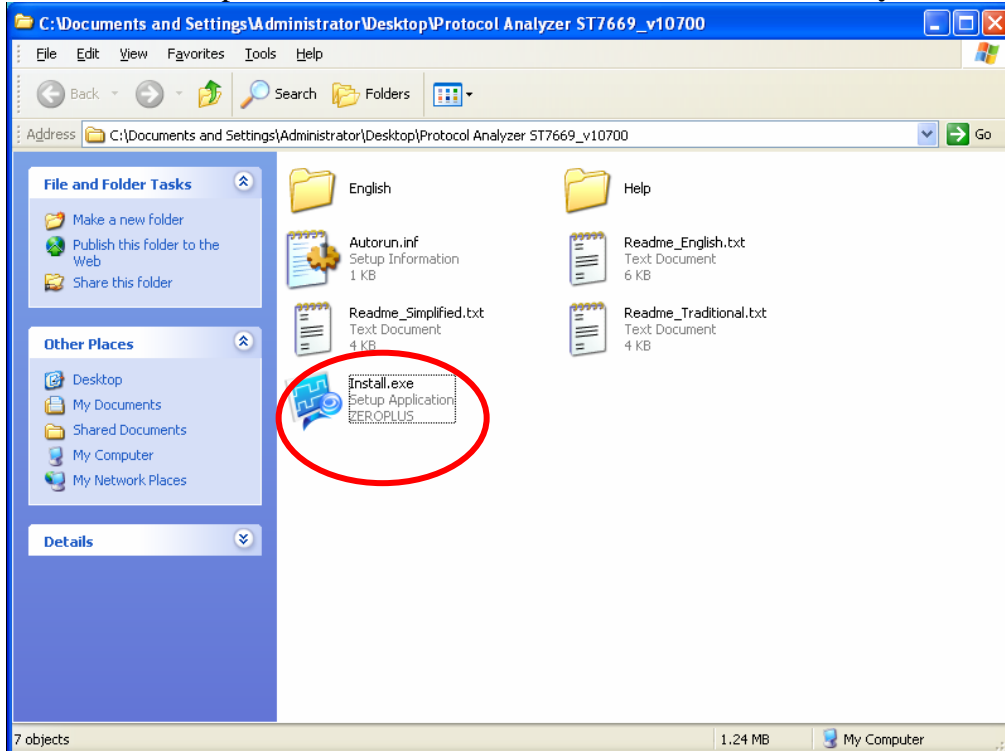


STEP 6. Click Software in the Products page. When the File Download dialog box appears, you can click Save button to save the compressed files.

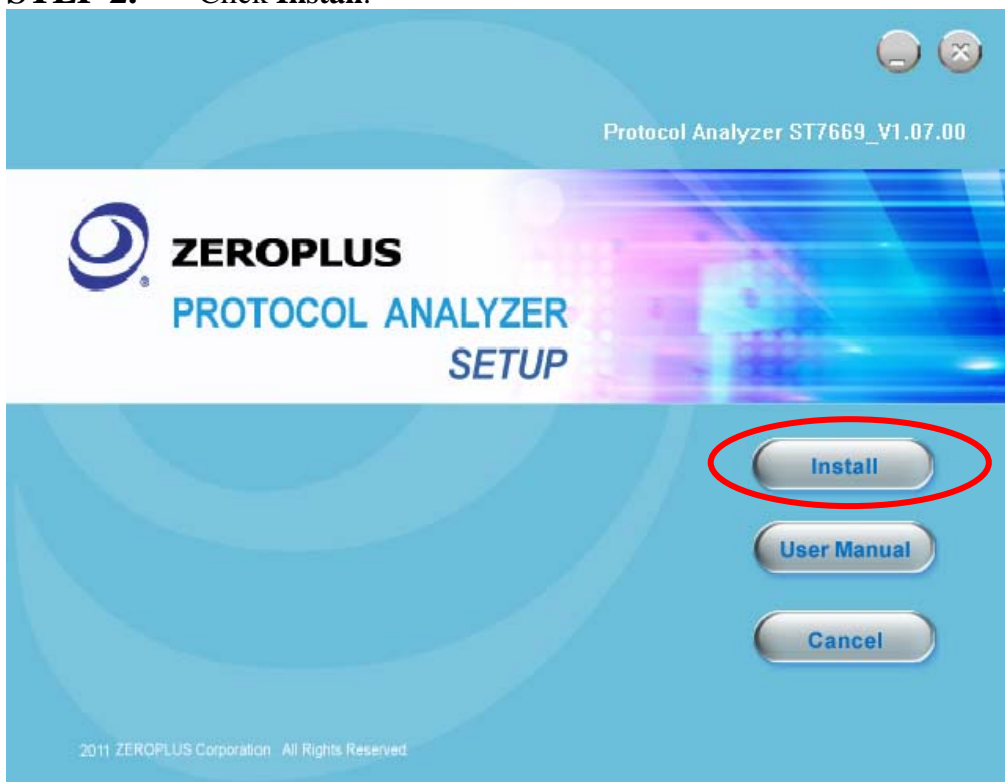


2 Software Installation

STEP 1. Open the downloaded folder to install **Protocol Analyzer ST7669**.

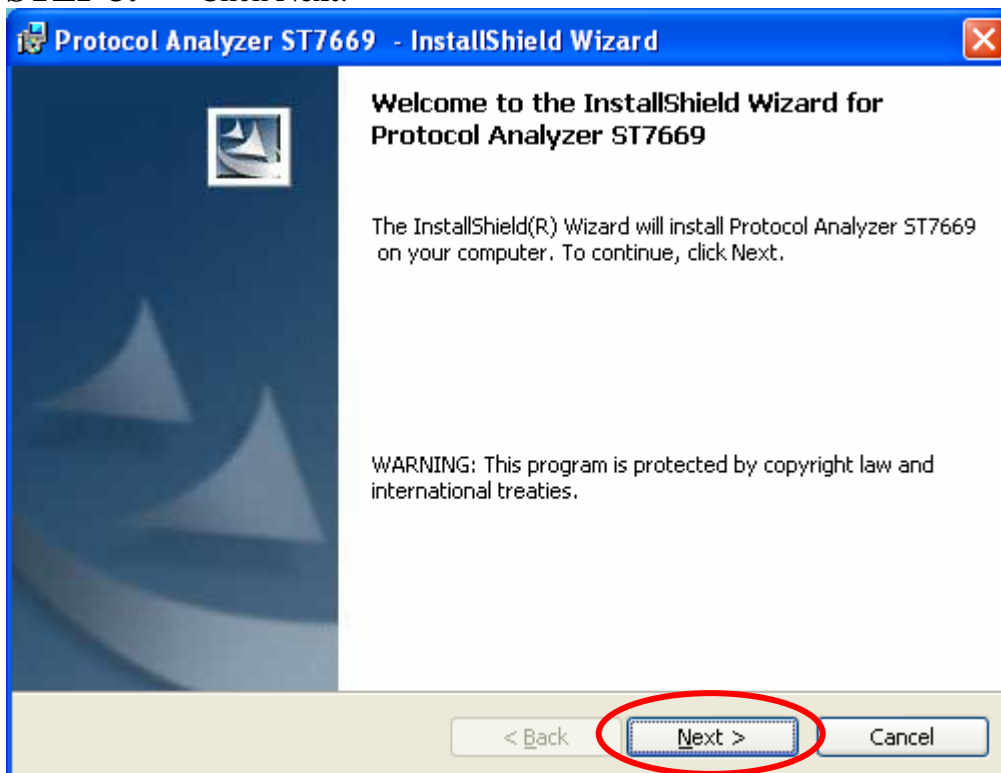


STEP 2. Click **Install**.

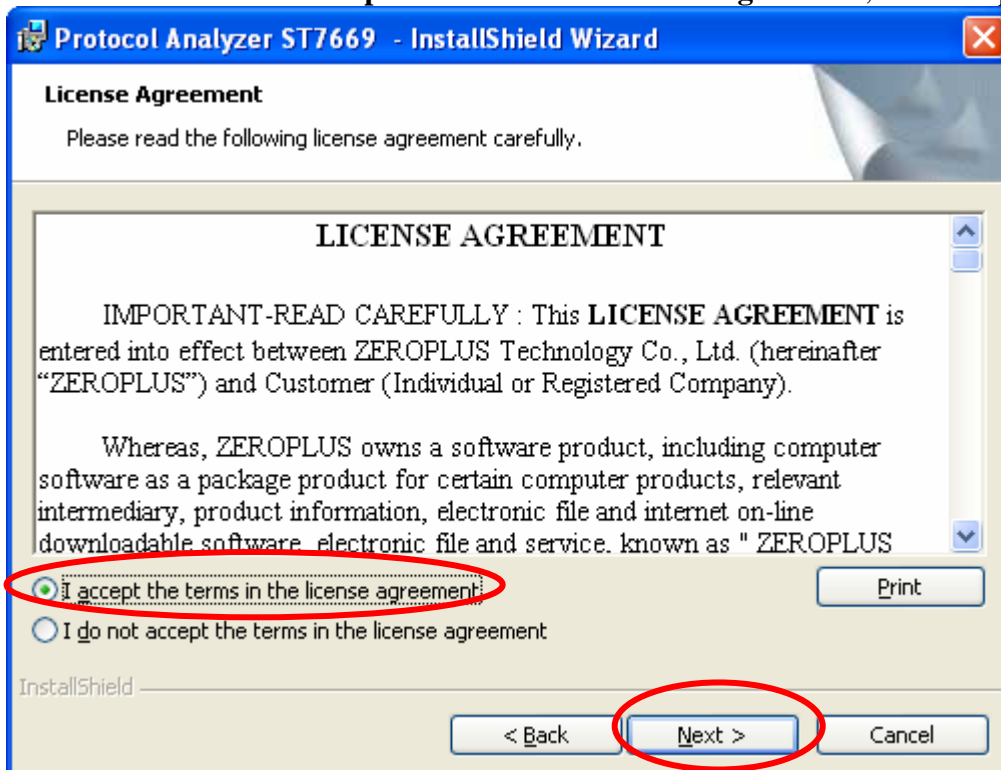




STEP 3. Click Next.



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**.

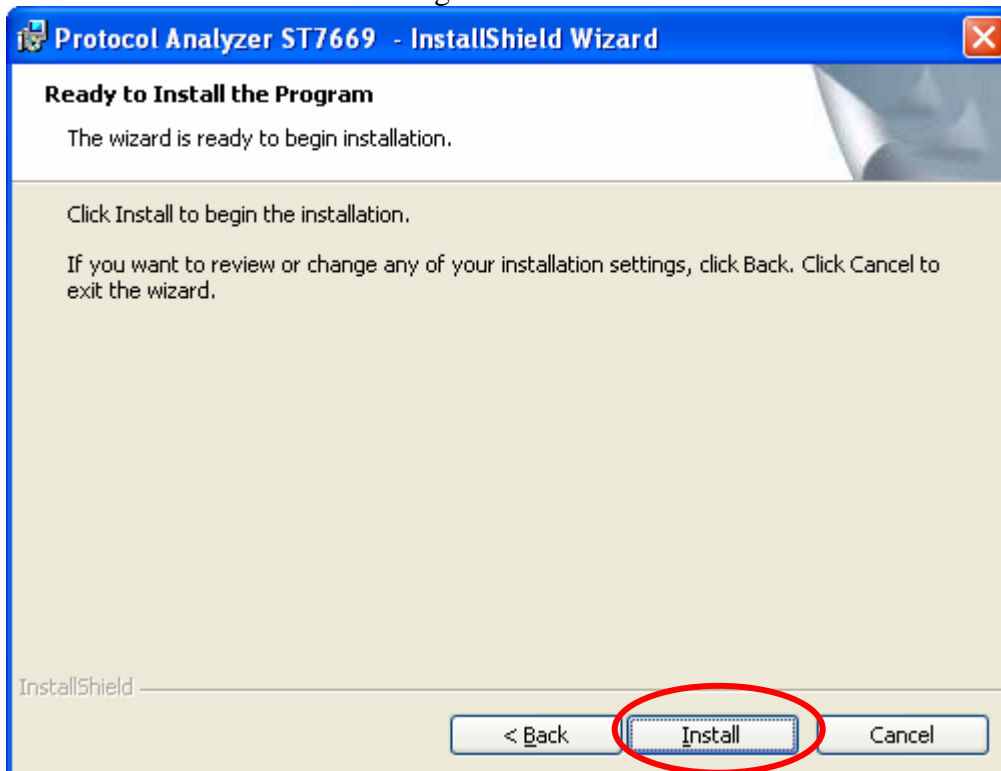
The dialog box is titled "Protocol Analyzer ST7669 - InstallShield Wizard". It has a "Customer Information" section with the instruction "Please enter your information." Below this are two text input fields: "User Name:" containing "Microsoft" and "Organization:" containing "User". There are two radio button options under "Install this application for:": "Anyone who uses this computer (all users)" (selected) and "Only for me (Microsoft)". At the bottom, there are three buttons: "< Back", "Next >" (circled in red), and "Cancel".

STEP 6. Select **Complete** and then click **Next**.

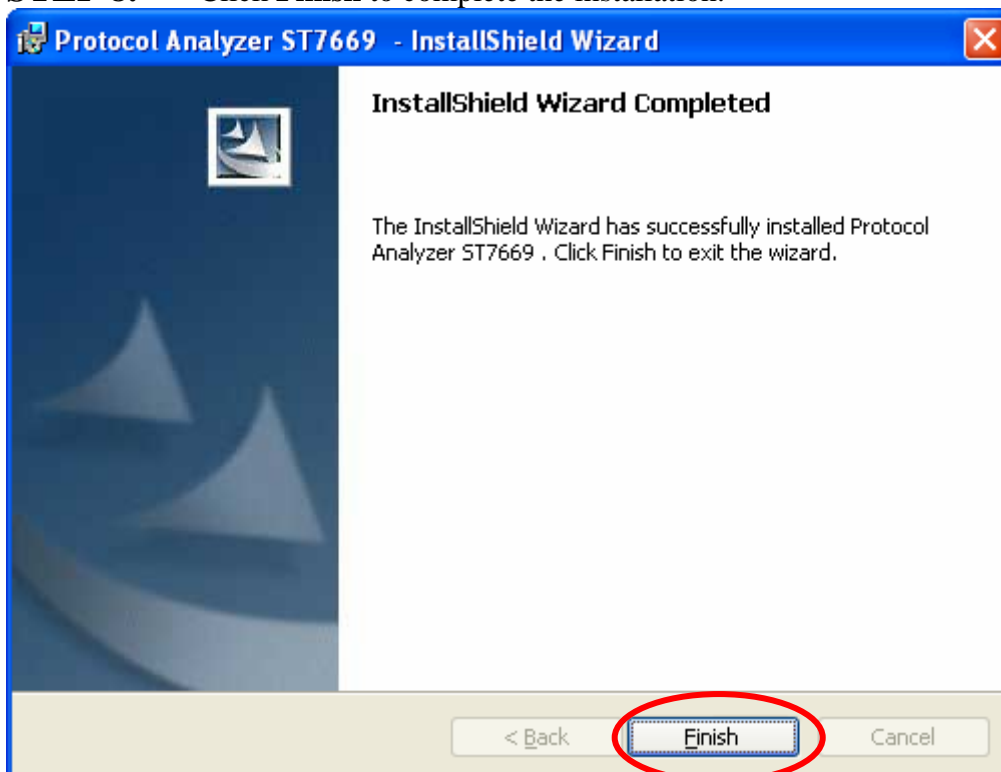
The dialog box is titled "Protocol Analyzer ST7669 - InstallShield Wizard". It has a "Setup Type" section with the instruction "Choose the setup type that best suits your needs." Below this is the text "Please select a setup type." There are two radio button options: "Complete" (selected) and "Custom". The "Complete" option has a description: "All program features will be installed. (Requires the most disk space.)". The "Custom" option 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 >" (circled in red), and "Cancel".



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



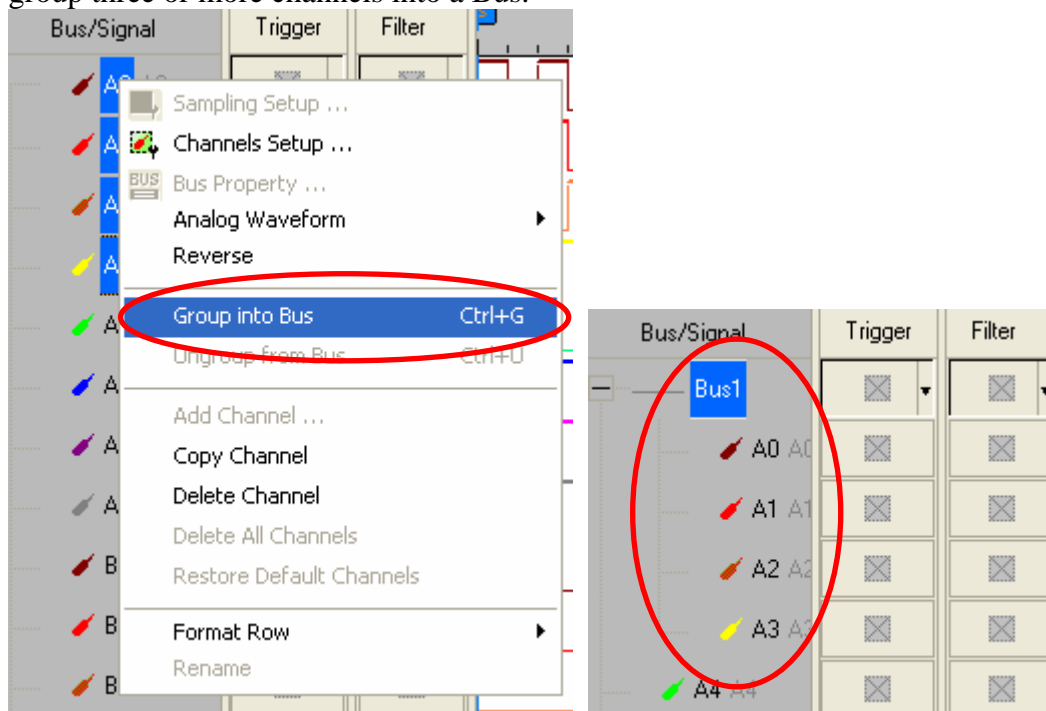
STEP 8. Click **Finish** to complete the installation.



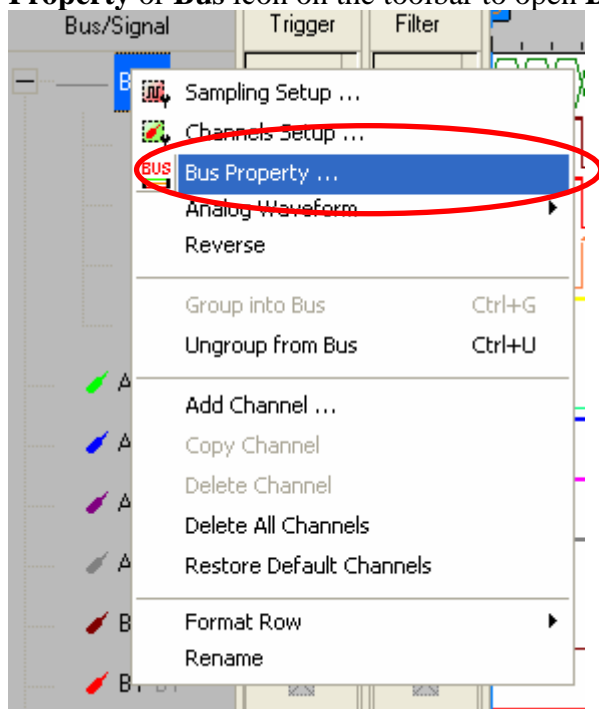


3 Software Register

STEP 1. Open the Logic Analyzer and group the unanalyzed channels into Bus1 by pressing the Right Key on the mouse. ST7669 needs three or more channels to decode signals, so it is necessary to group three or more channels into a Bus.

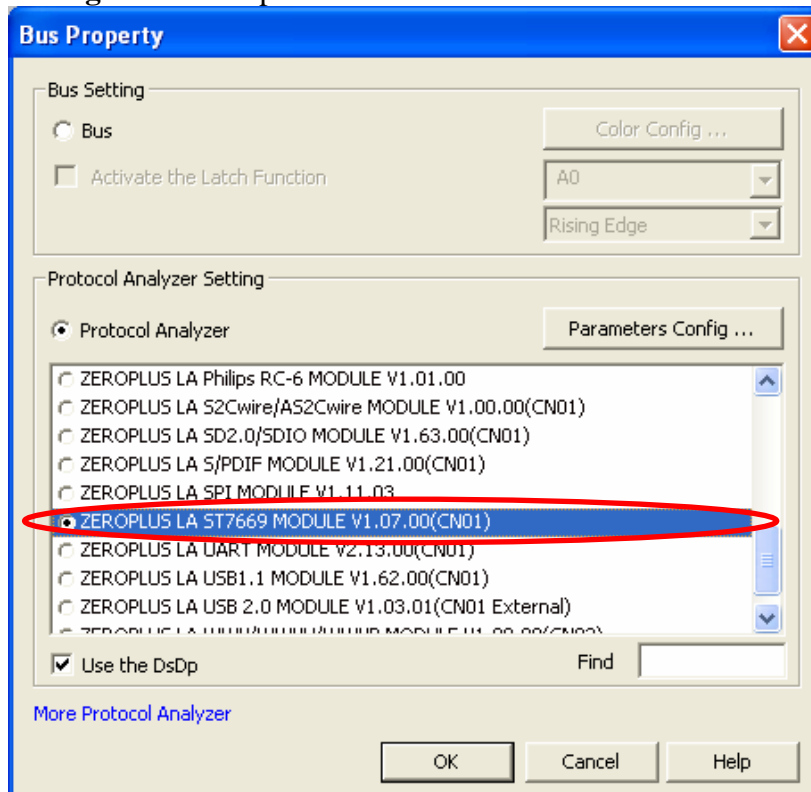


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

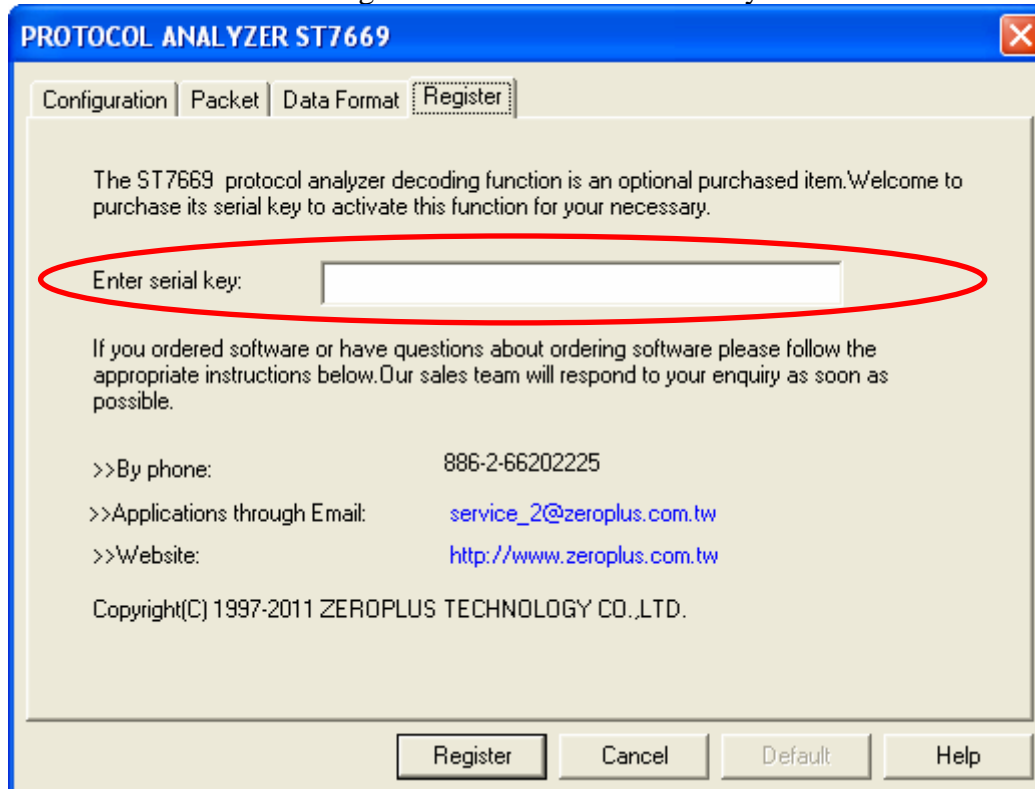




STEP 3. For Protocol Analyzer ST7669 Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA ST7669 MODULE V1.07.00(CN01)**. Next click **Parameters Configuration** to open the **PROTOCOL ANALYZER ST7669** dialog box.

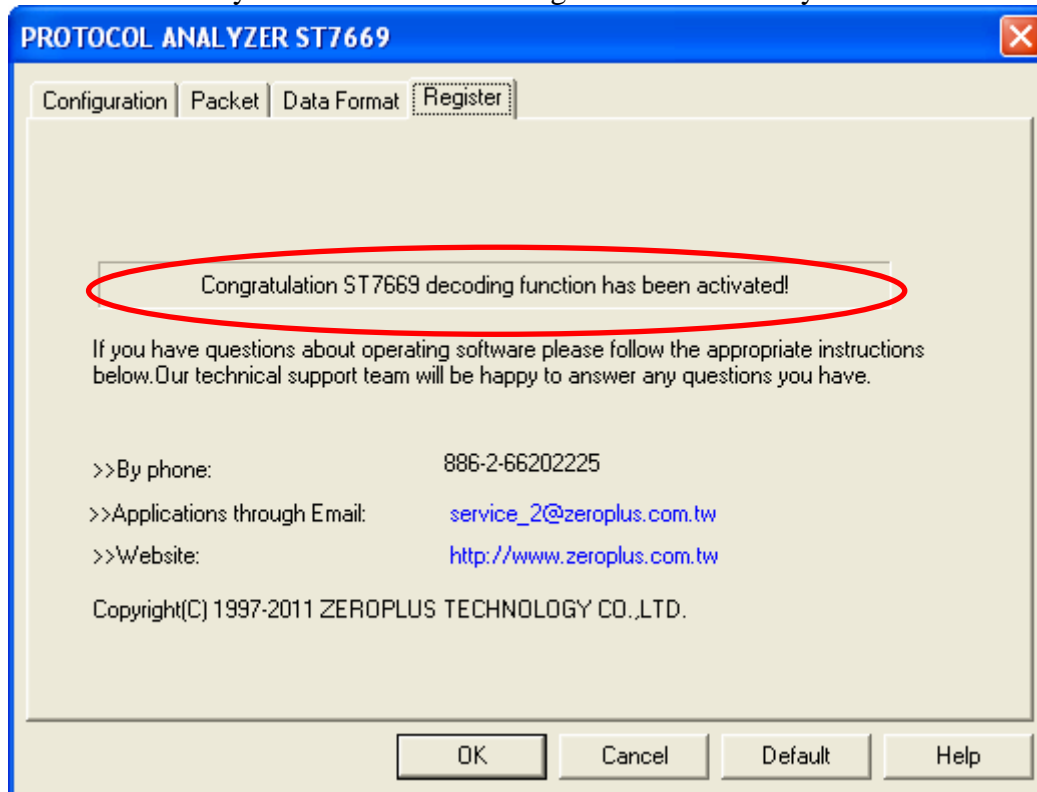


STEP 4. Press the Register tab to enter the serial key of the **ST7669**. Then, press **Register**.





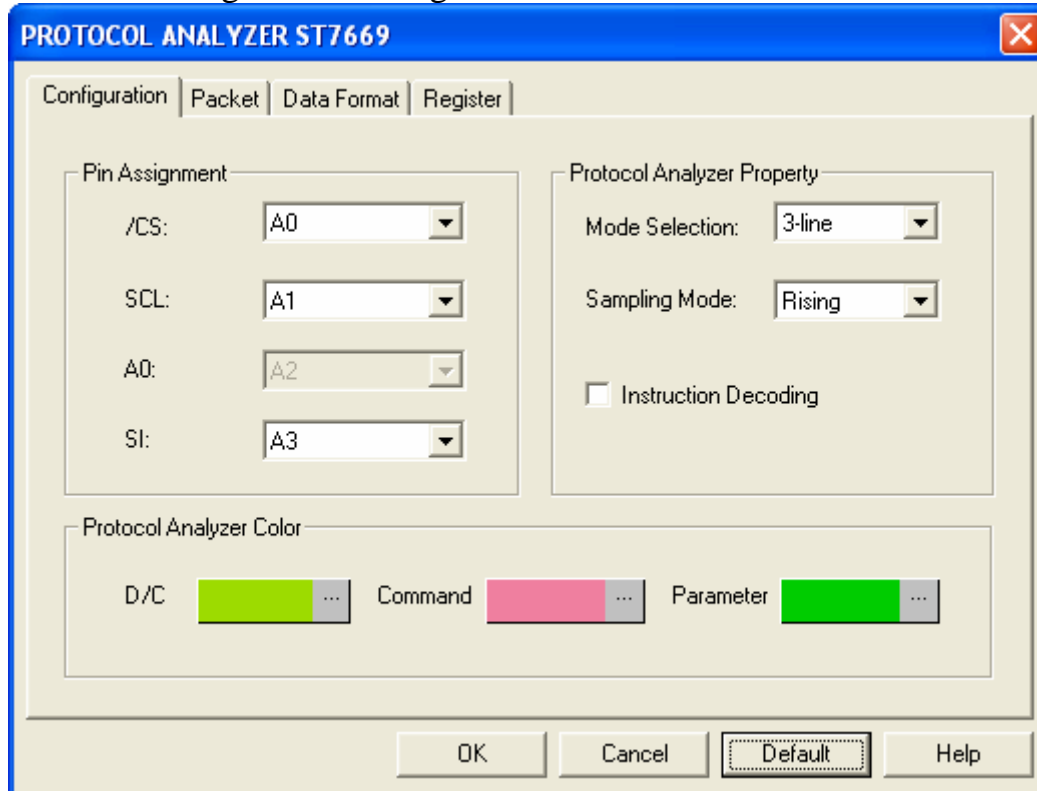
STEP 5. After pressing the Register button, the following dialog box will appear; it denotes that the Protocol Analyzer **ST7669** has been registered successfully.



4 User Interface

Please refer to the below images to select options of setting **ST7669 Module**.

ST7669 Configuration dialog box



Pin Assignment:

In the 3-line Mode: The A0 channel is disabled, the /CS channel is A0 by default, the SCL channel is A2 by default and the SI channel is A3 by default.

In the 4-line Mode: The /CS channel is A0 by default, the A0 channel is A2 by default, the SCL channel is A1 by default and the SI channel is A3 by default.

Protocol Analyzer Property:

Mode Selection: Set the Mode to 3-line or 4-line.

Sampling Mode: Set the Mode to Rising or Falling, the default is Rising.

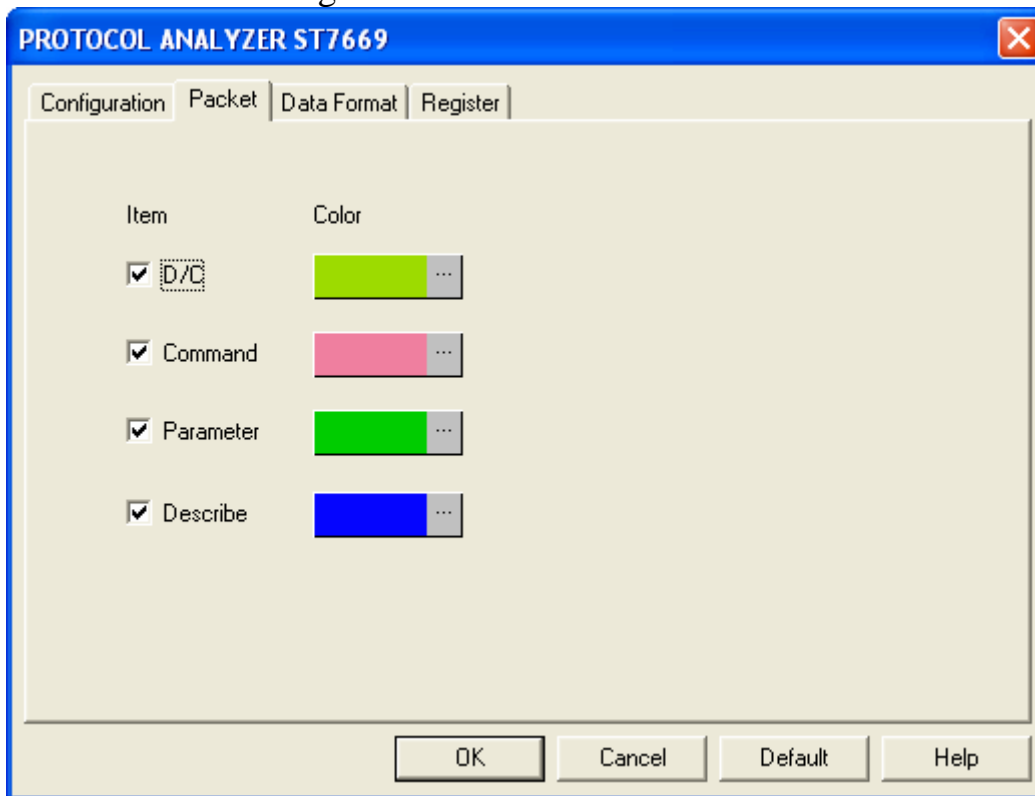
Instruction Decoding: Set the Decoding Mode to Instruction Decoding.

Protocol Analyzer Color:

The color can be varied by users.

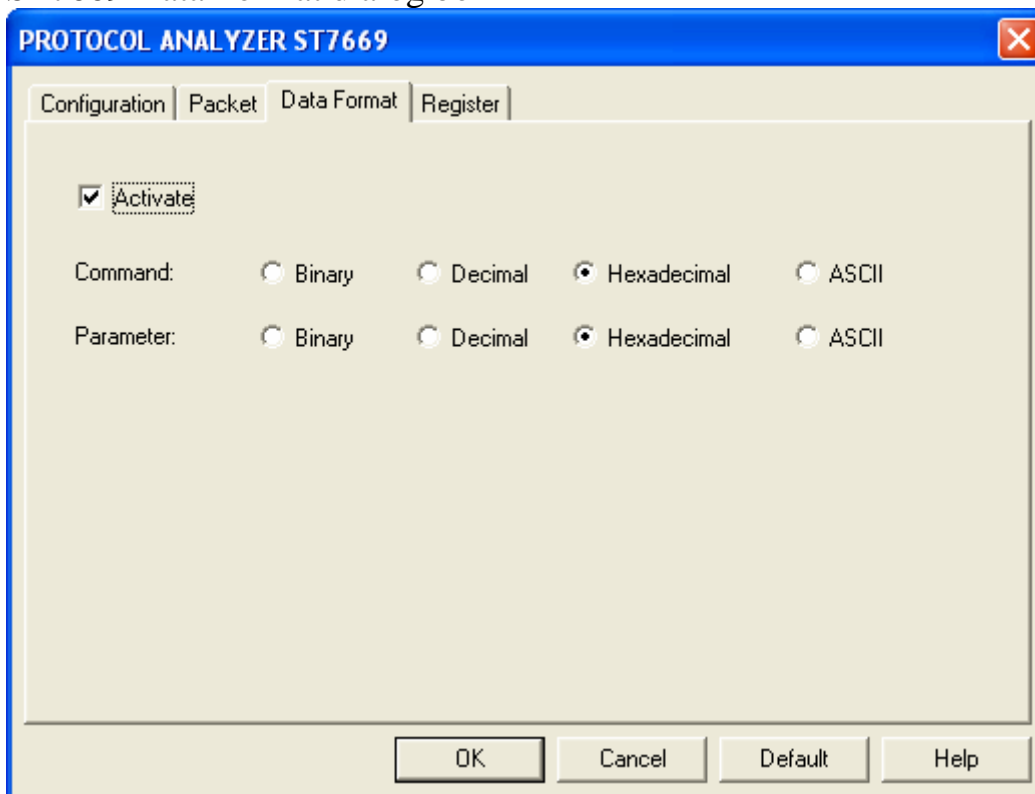


ST7669 Packet dialog box



In the Packet dialog box, users can vary the colors of the items and set the item to be displayed.

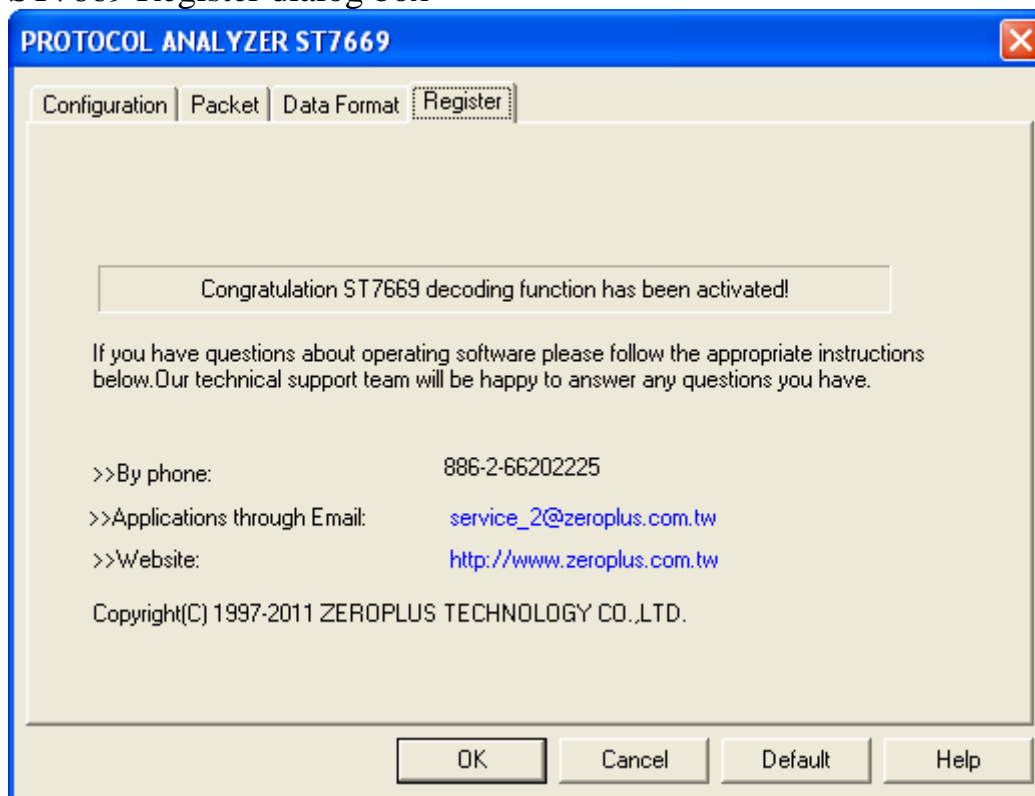
ST7669 Data Format dialog box



Users can set the Data Format of the Command and Parameter as their requirements. When selecting the option, Activate, the data formats are decided by the settings in the Protocol Analyzer; when not selecting the option, Activate, the data formats are decided by the settings in the main program.



ST7669 Register dialog box

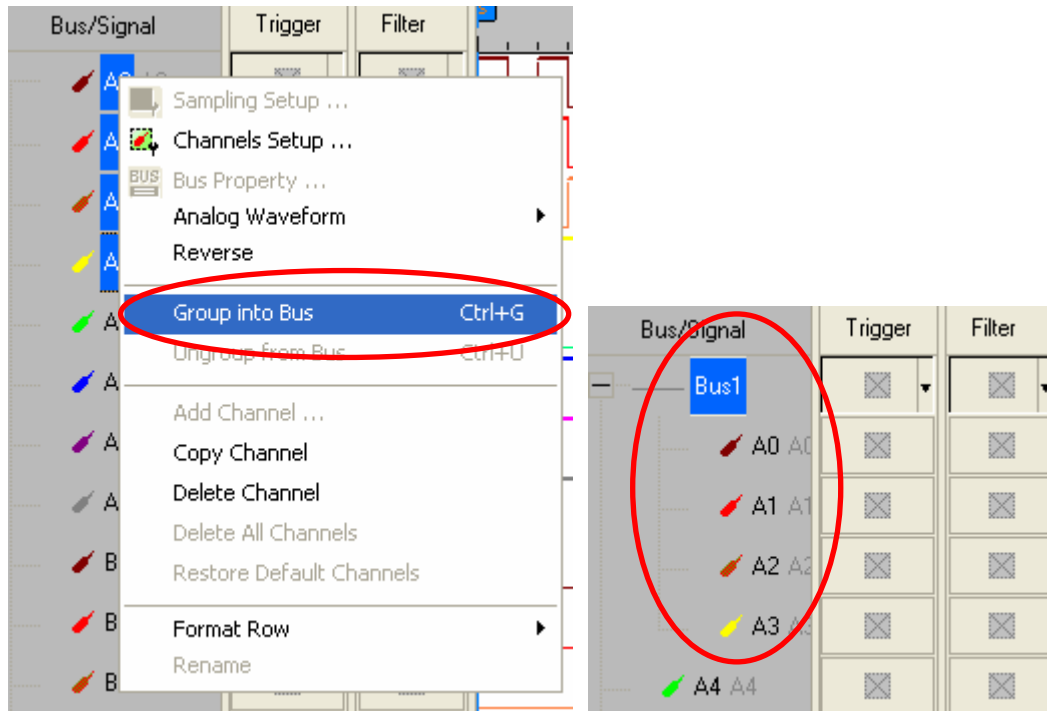


There is written ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

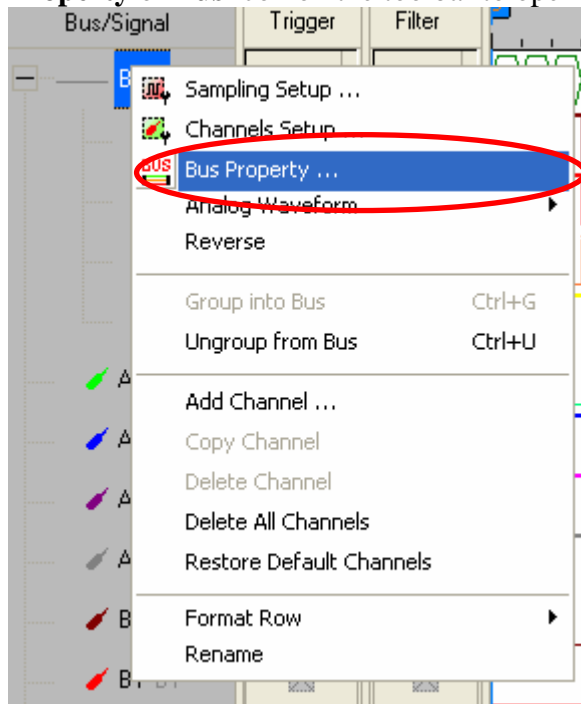


5 Operating Instructions

STEP 1. Group the unanalyzed channels into Bus1 by pressing the Right Key on the mouse. ST7669 needs three or more channels to decode signals, so it is necessary to group three or more channels into a Bus.

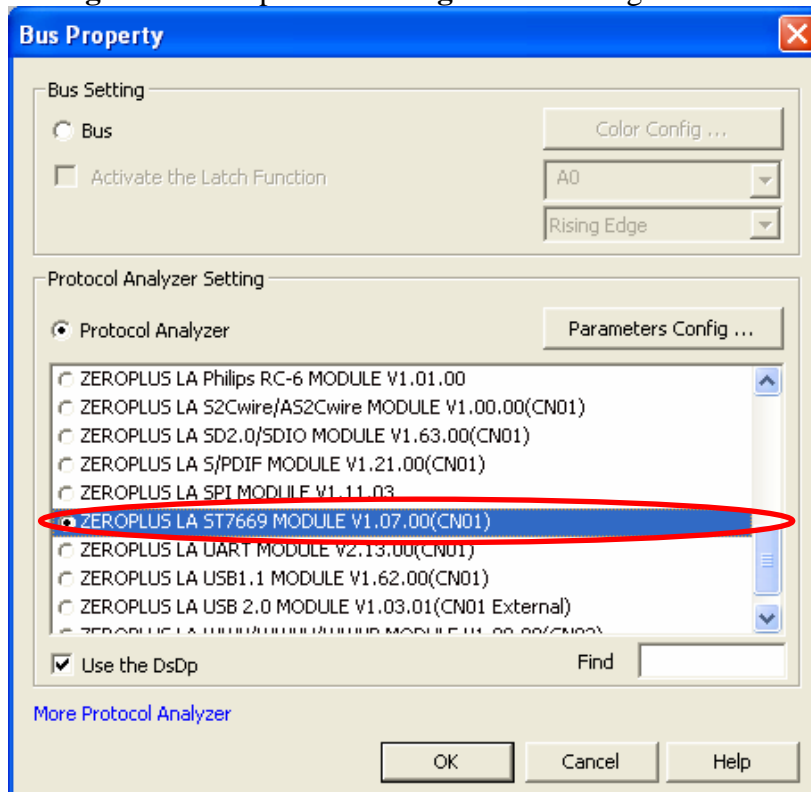


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

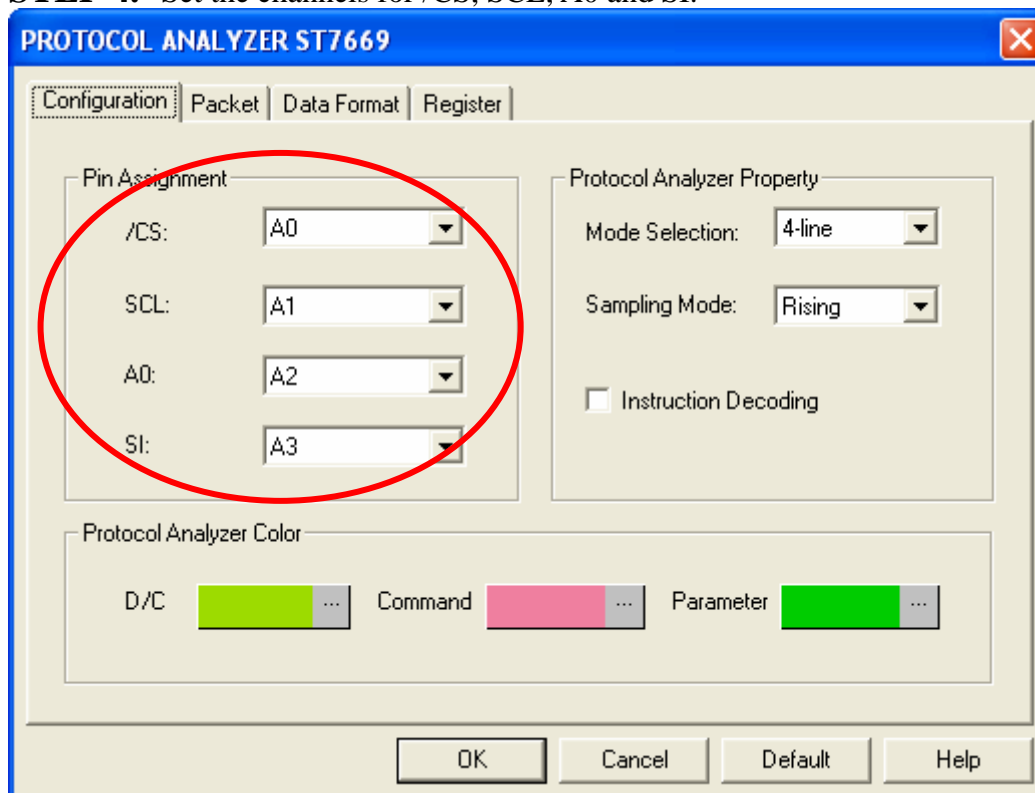




STEP 3. For Protocol Analyzer ST7669 Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA ST7669 MODULE V1.07.00(CN01)**. Next click **Parameters Configuration** to open the **Configuration** dialog box.

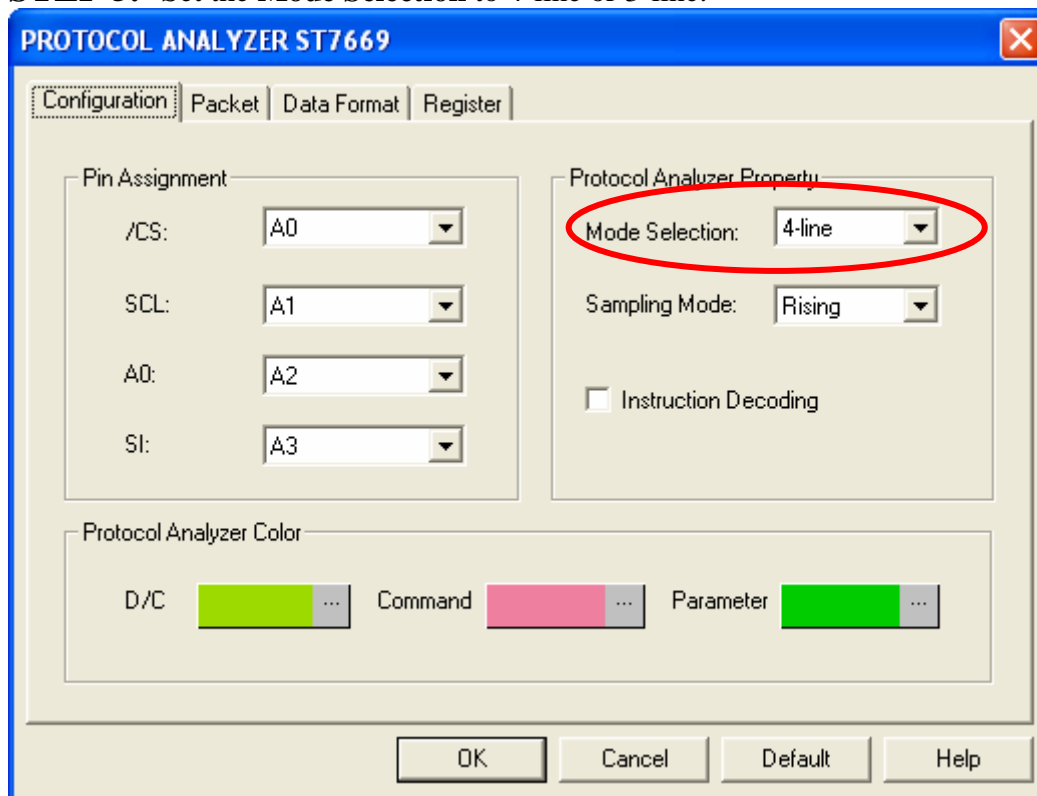


STEP 4. Set the channels for /CS, SCL, A0 and SI.

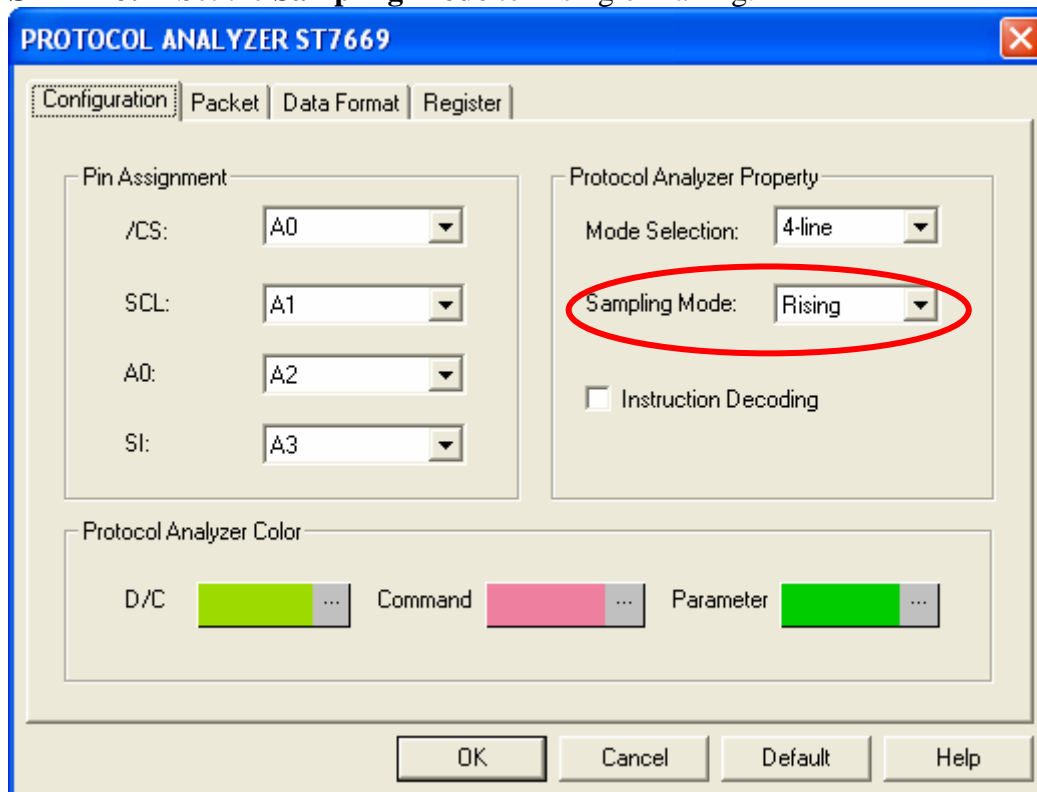




STEP 5. Set the **Mode Selection** to 4-line or 3-line.

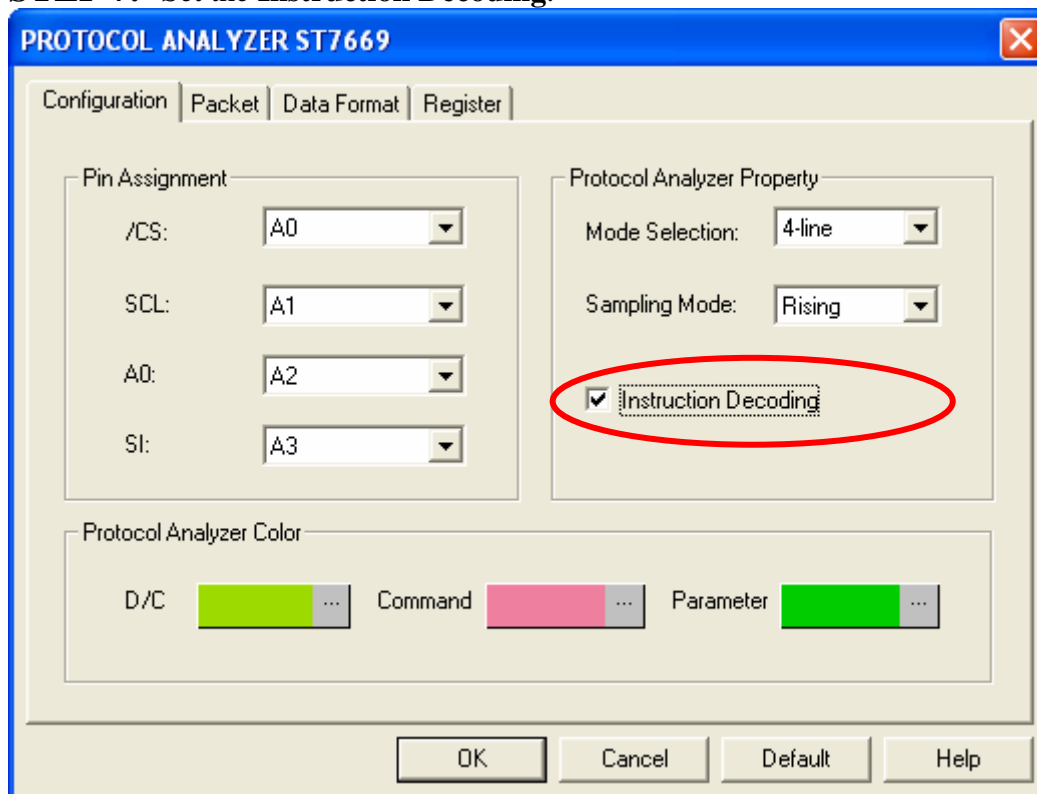


STEP 6. Set the **Sampling Mode** to Rising or Falling.

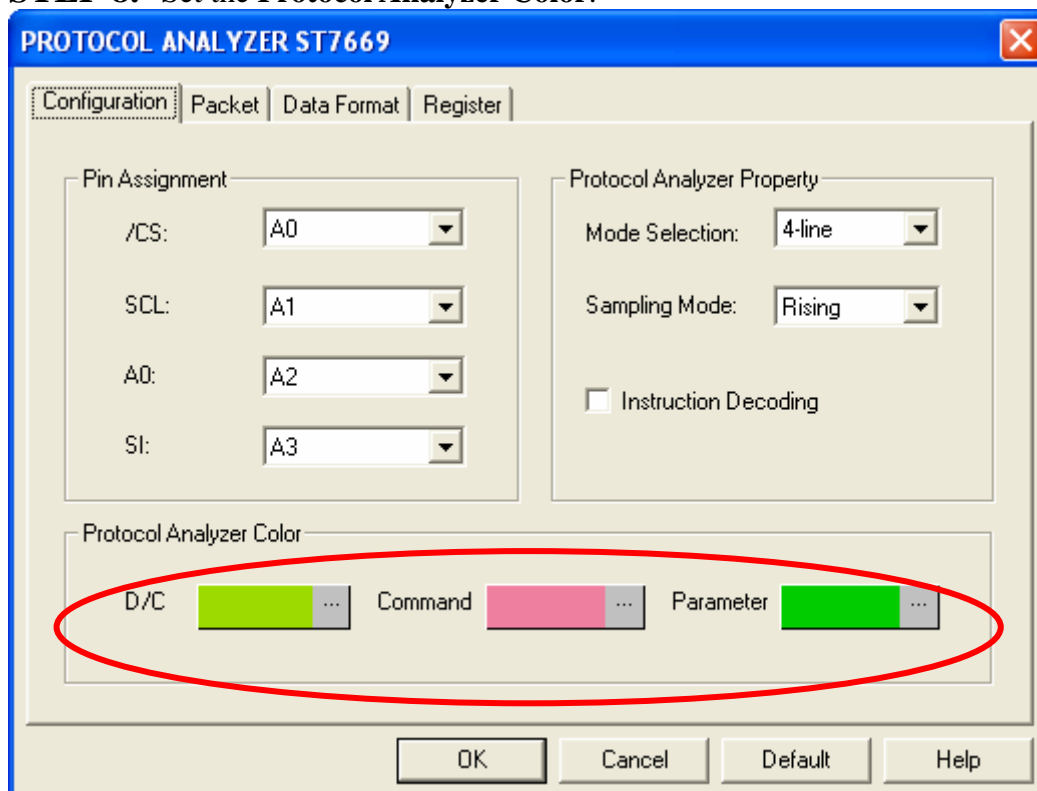




STEP 7. Set the Instruction Decoding.



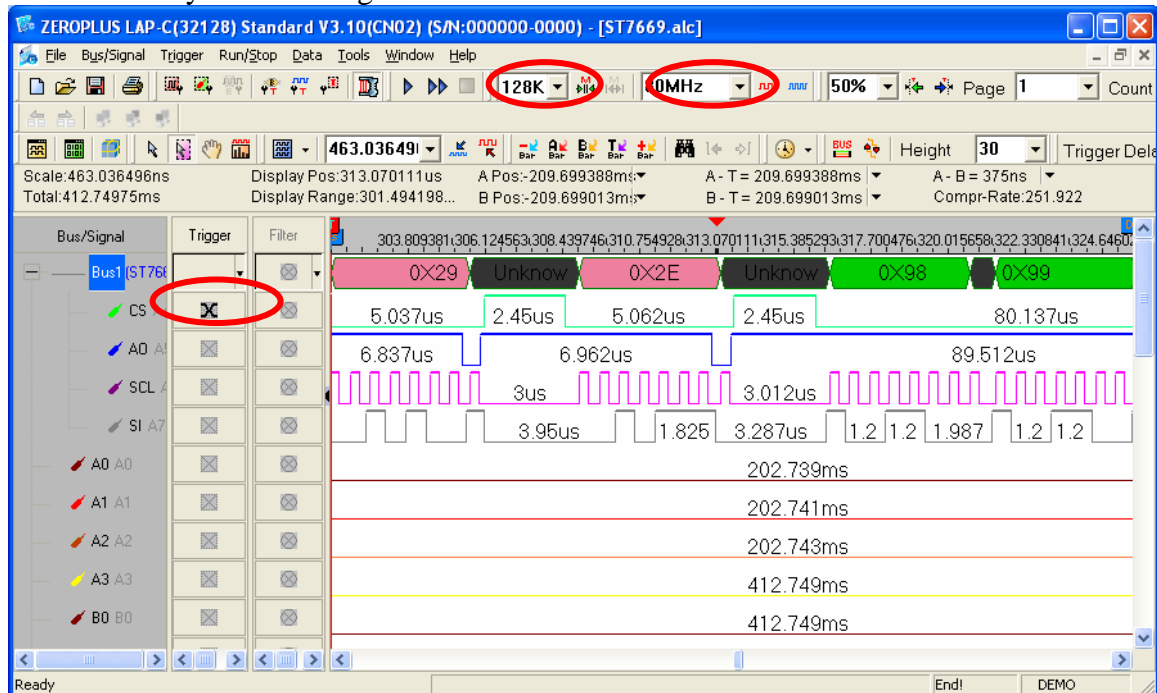
STEP 8. Set the Protocol Analyzer Color.





STEP 9. Following pictures show that 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 80MHz (the sampling frequency should be more than four times higher than the signal to be tested).

Protocol Analyzer Decoding



Packet List

