



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

SPECIFICATION

MODEL: 031-LAP-DSA Interface-M

PART NO: _____

VERSION: V1.04

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

FM07F1D



Content

1	Software Download.....	3
2	Software Installation	6
3	Software Register	10
4	User Interface	13
5	Operating Instructions.....	16



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.

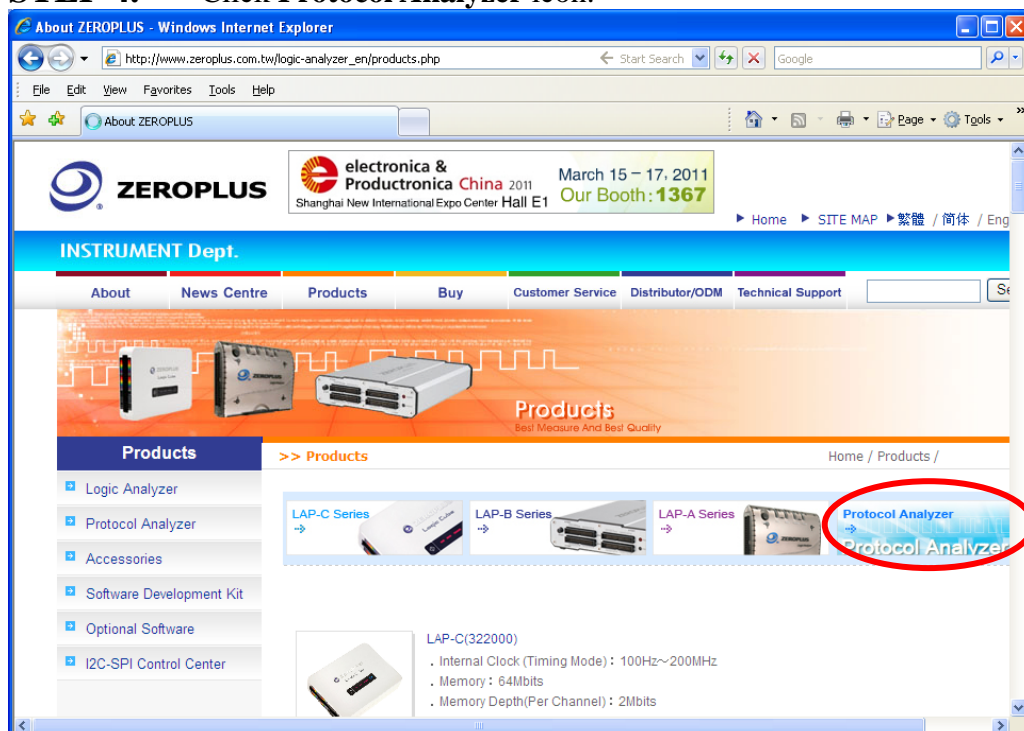




STEP 3. Click **Products** menu or select **Protocol Analyzer** item from its pull-down menu to go straight to STEP 5.

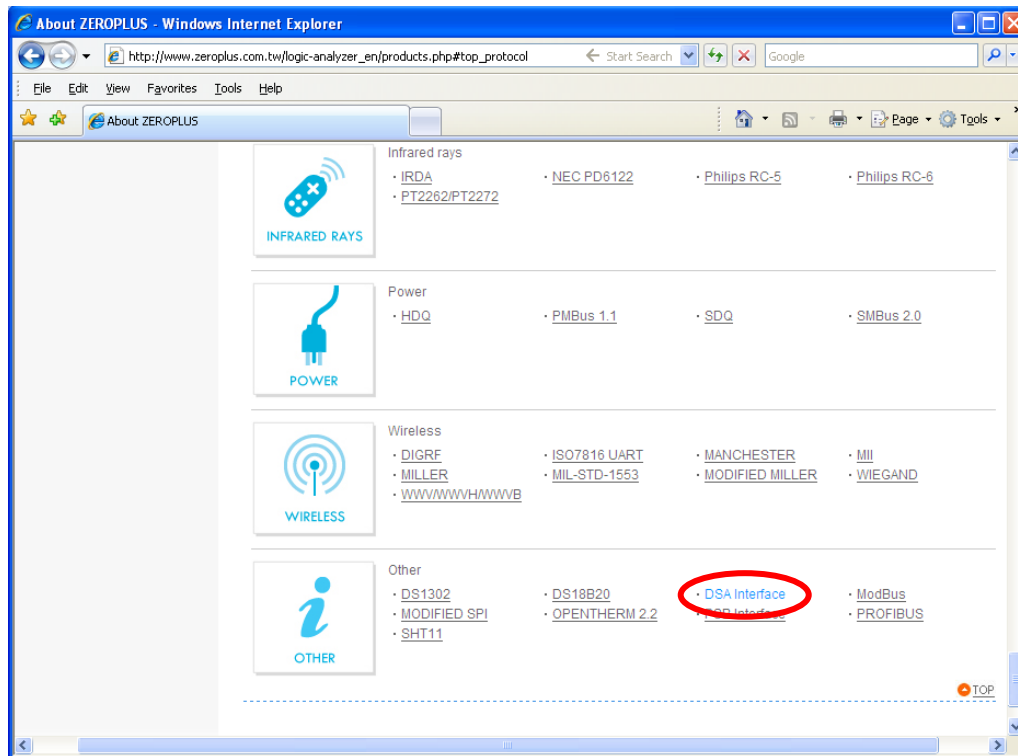


STEP 4. Click **Protocol Analyzer** icon.

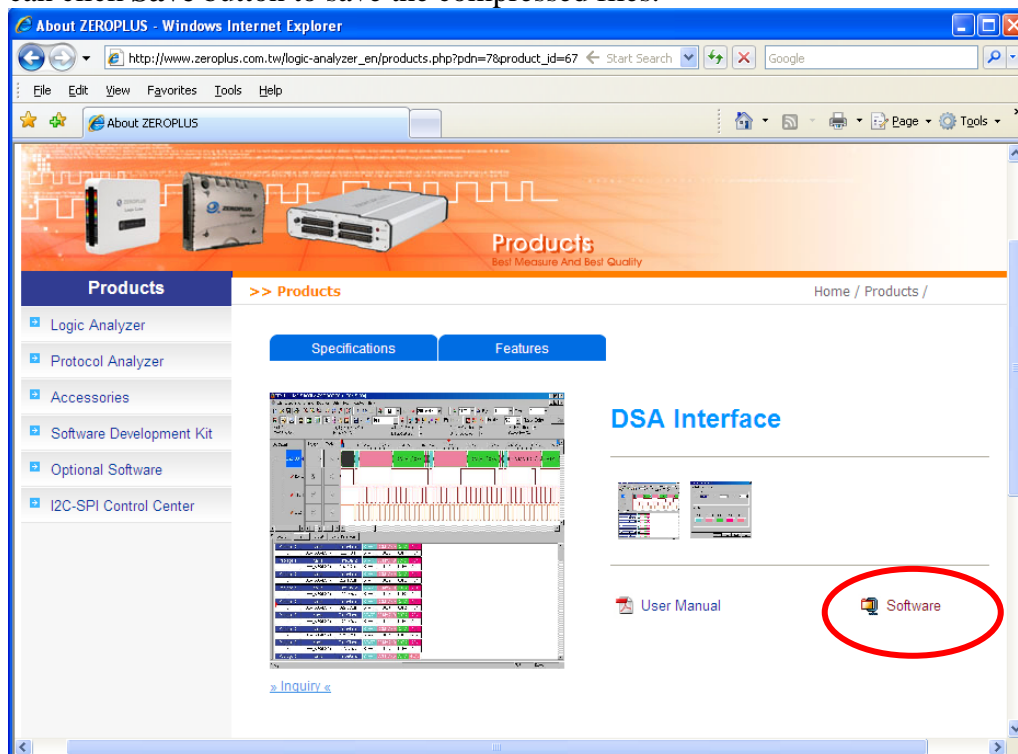




STEP 5. Click DSA Interface in the Other.



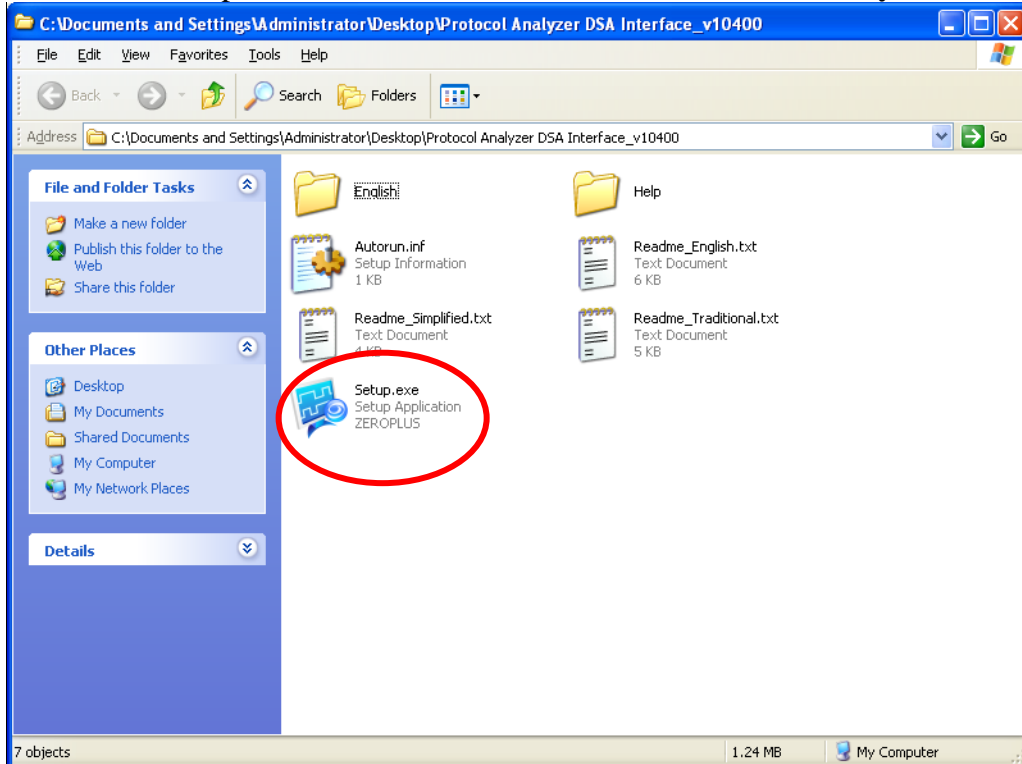
STEP 6. Click Software in the Products page. When the File Download dialog box appears, you can click Save button to save the compressed files.



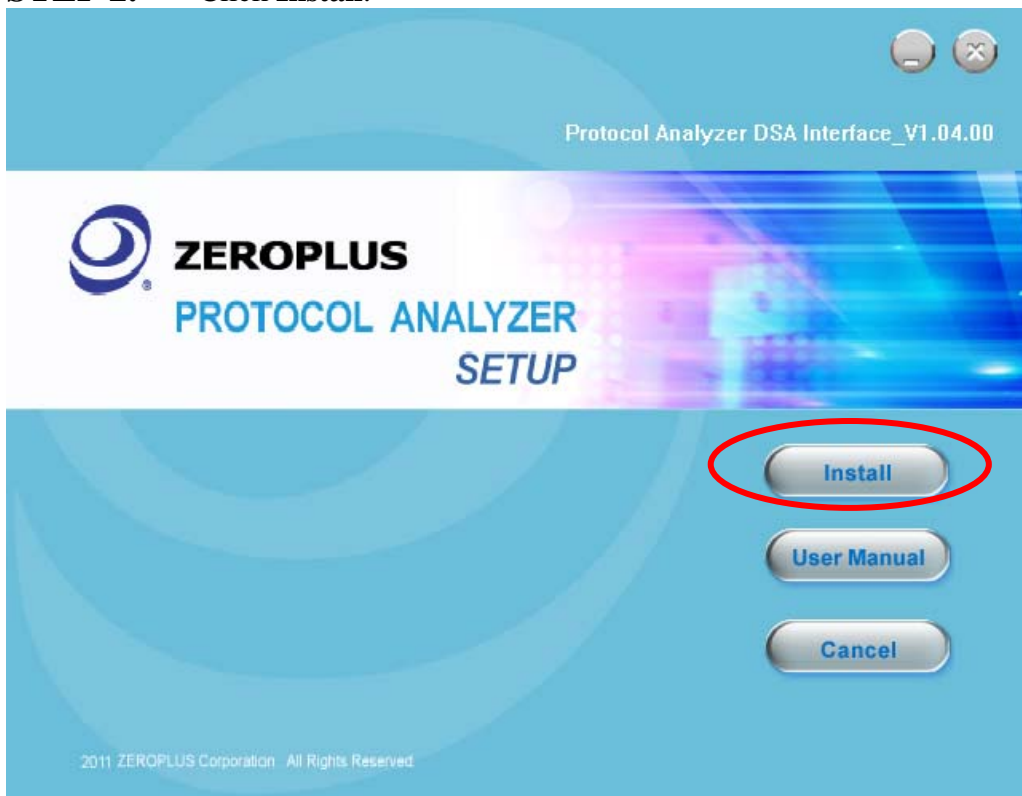


2 Software Installation

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

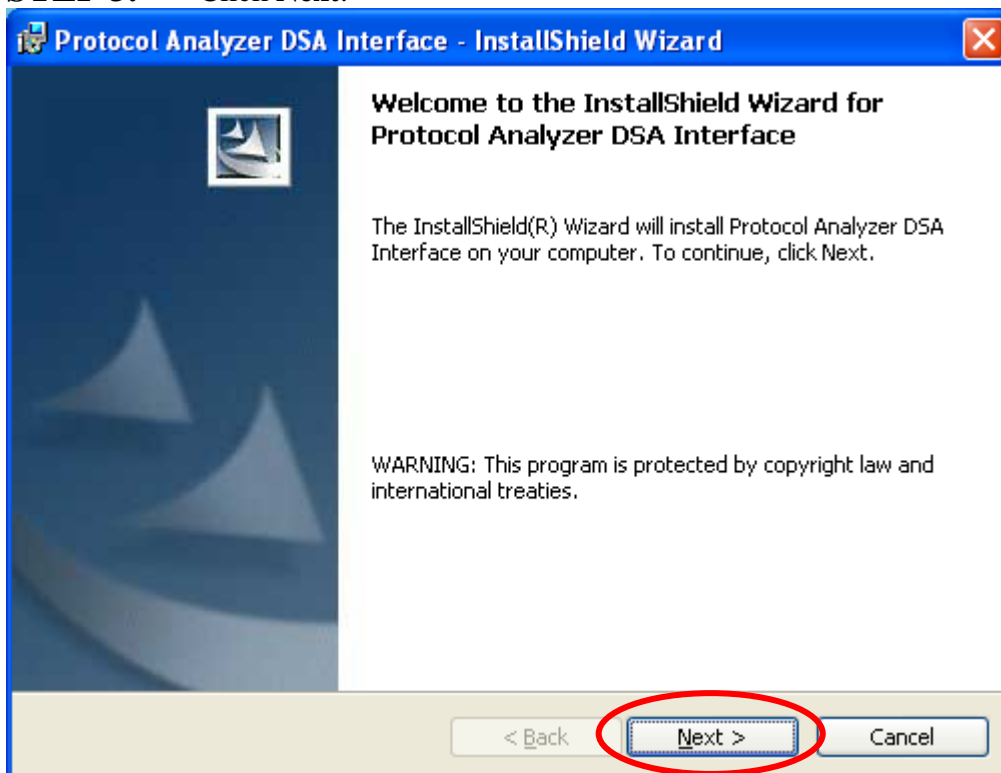


STEP 2. Click **Install**.

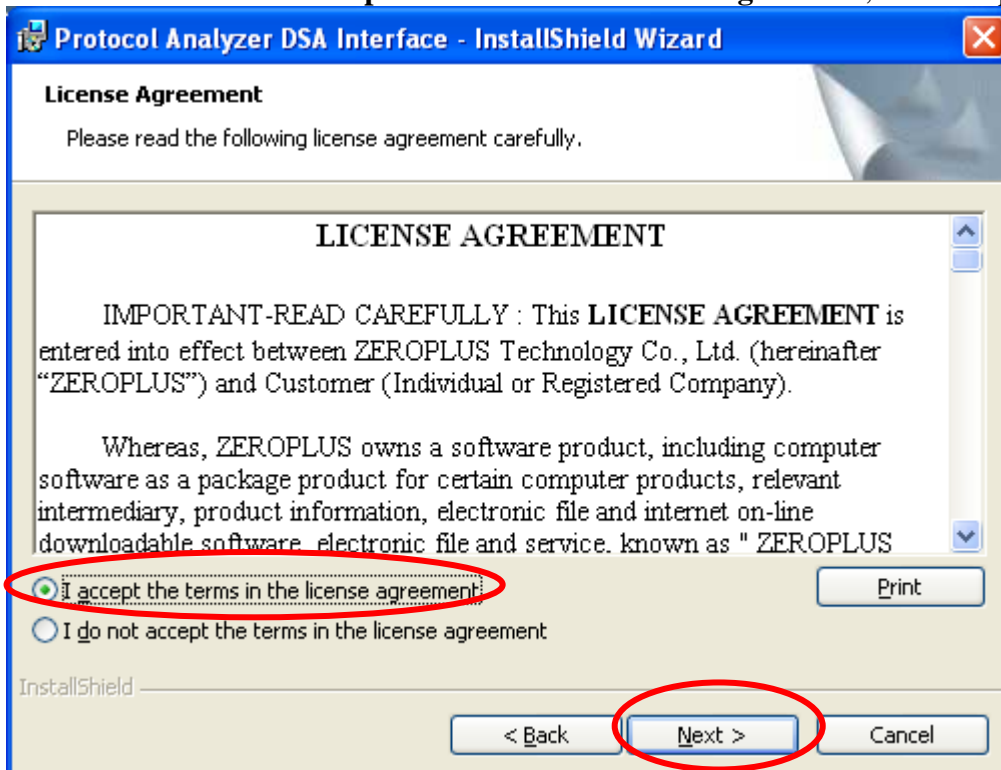




STEP 3. Click Next.



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**.

Protocol Analyzer DSA Interface - InstallShield Wizard

Customer Information

Please enter your information.

User Name:
Microsoft

Organization:
User

Install this application for:

☒ Anyone who uses this computer (all users)

☐ Only for me (Microsoft)

InstallShield

< Back **Next >** Cancel

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

Protocol Analyzer DSA Interface - InstallShield Wizard

Setup Type

Choose the setup type that best suits your needs.

Please select a setup type.

☒ **Complete**
All program features will be installed. (Requires the most disk space.)

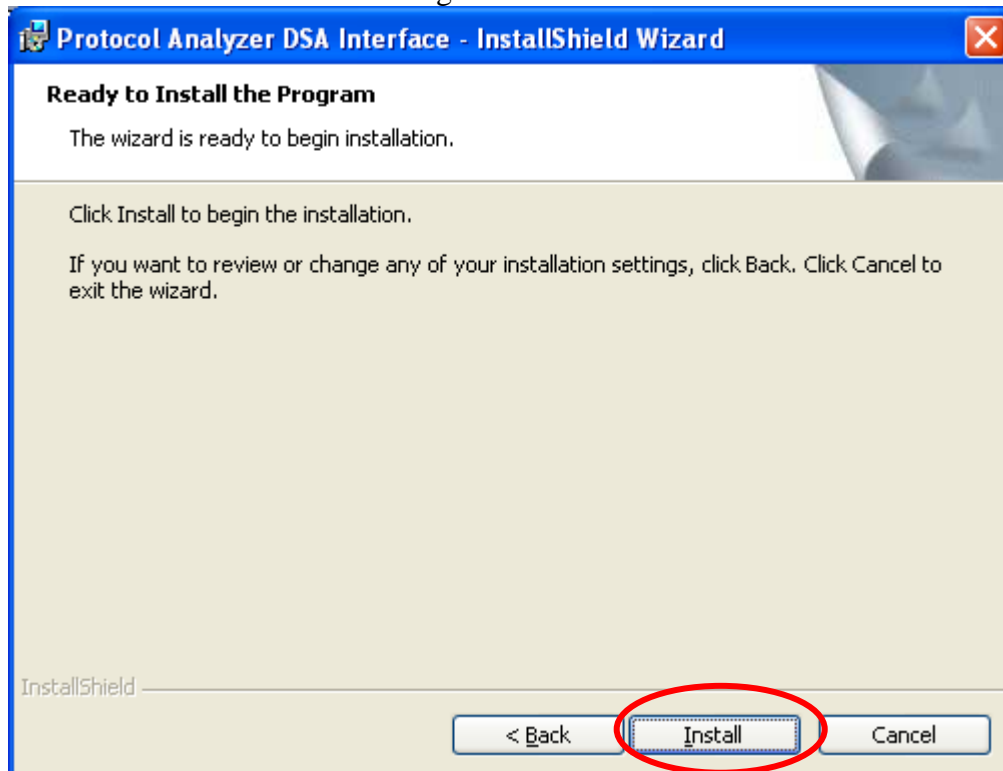
☐ **Custom**
Choose which program features you want installed and where they will be installed. Recommended for advanced users.

InstallShield

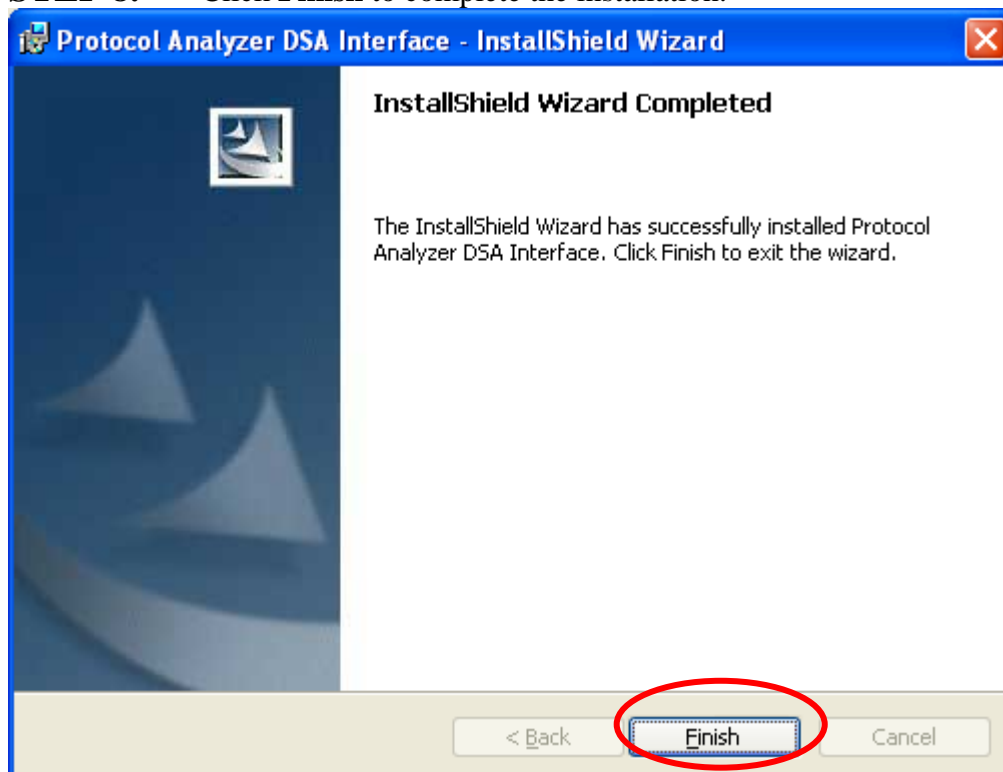
< Back **Next >** Cancel



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

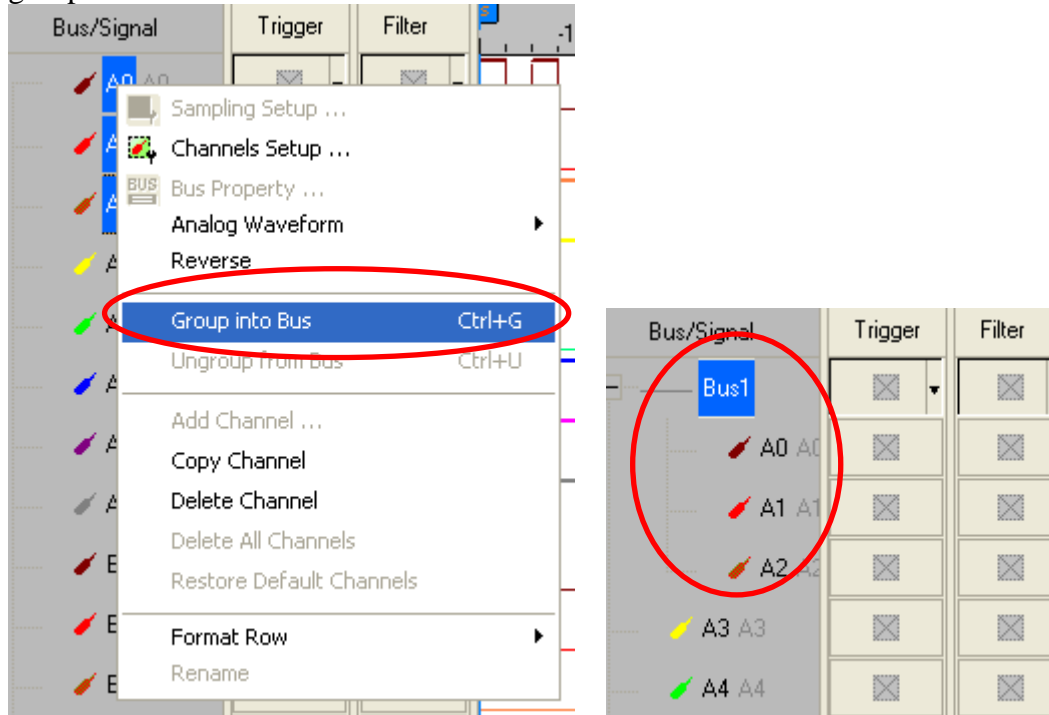


STEP 8. Click **Finish** to complete the installation.

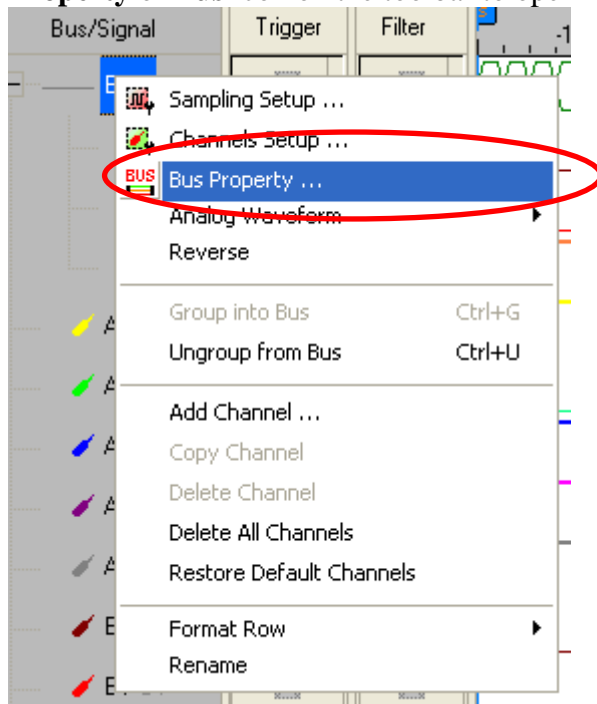


3 Software Register

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

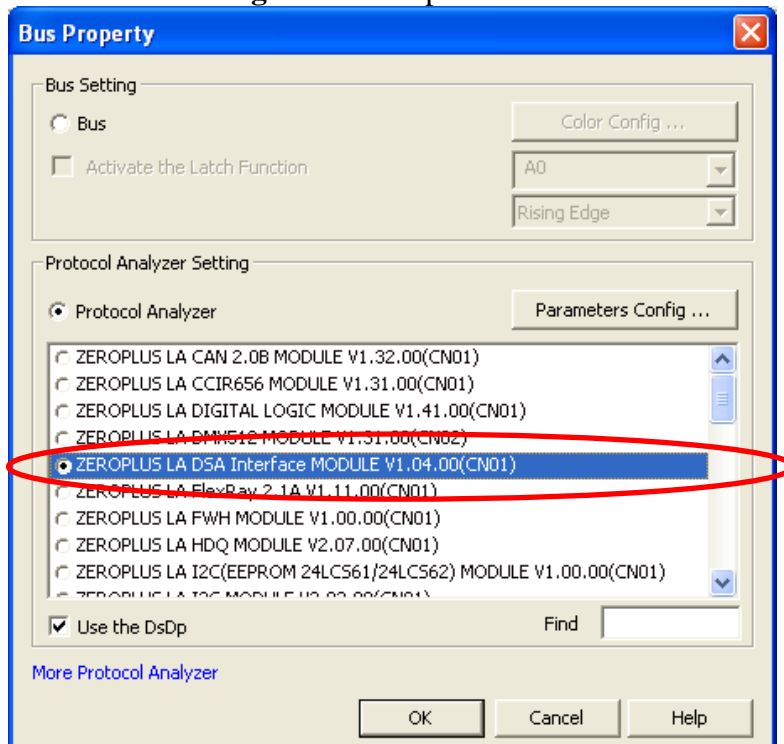


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

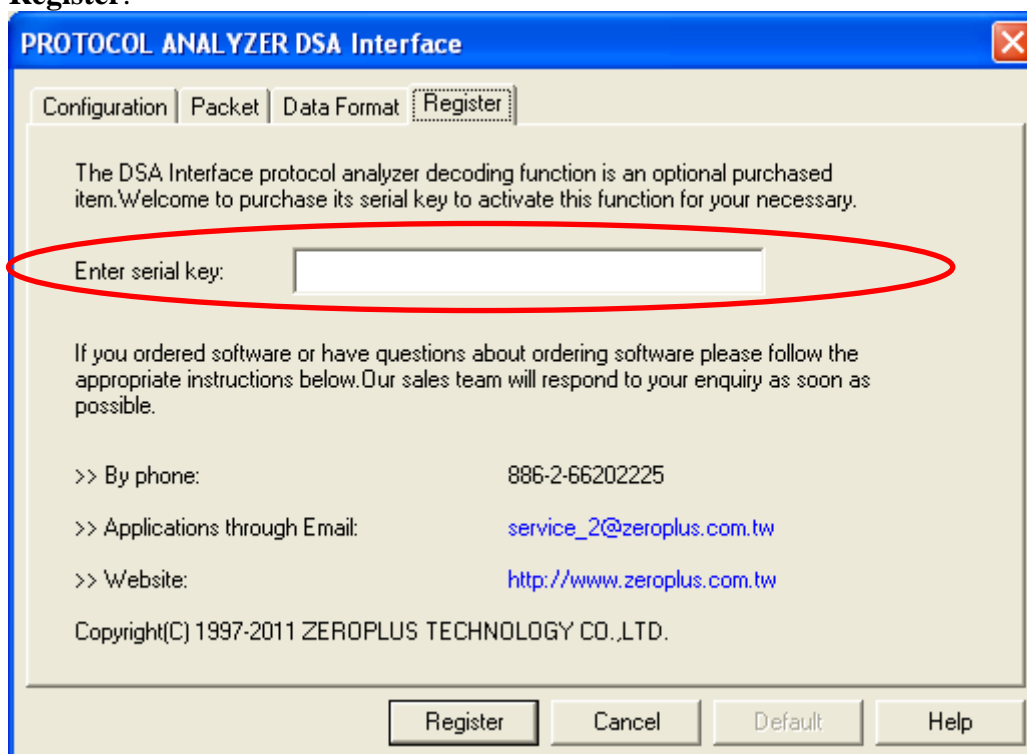




STEP 3. For Protocol Analyzer **DSA Interface** Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA DSA Interface MODULE V1.04.00(CN01)**. Next click **Parameters Configuration** to open the **PROTOCOL ANALYZER DSA Interface** dialog box.

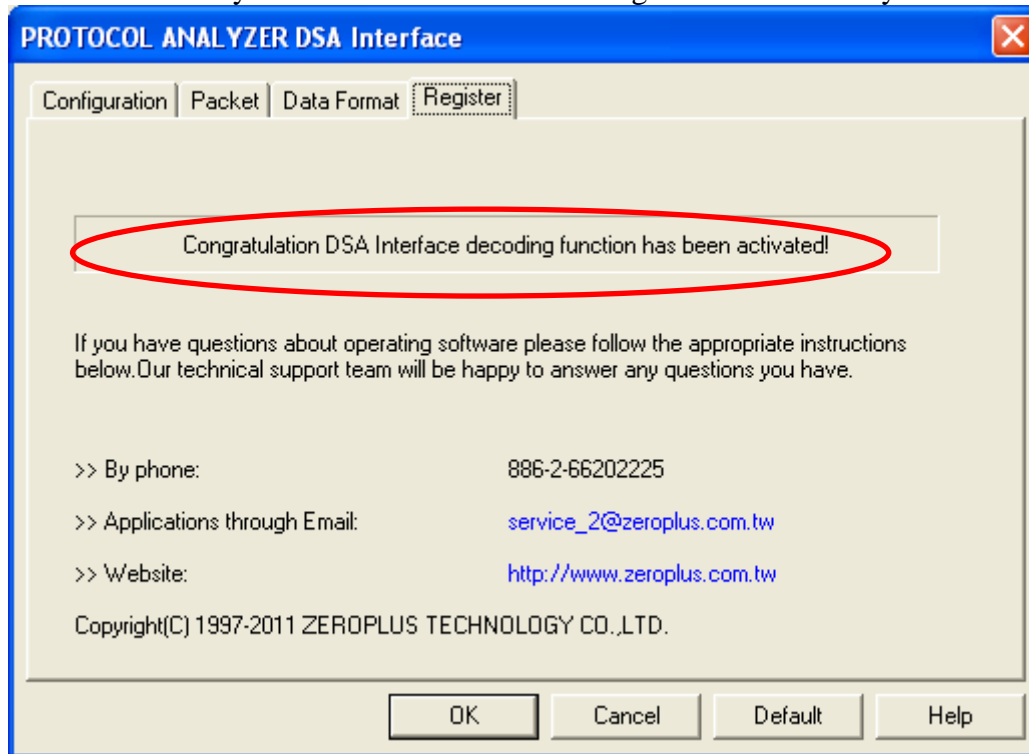


STEP 4. Press the Register tab to enter the serial key of the **DSA Interface**. Then, press **Register**.





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

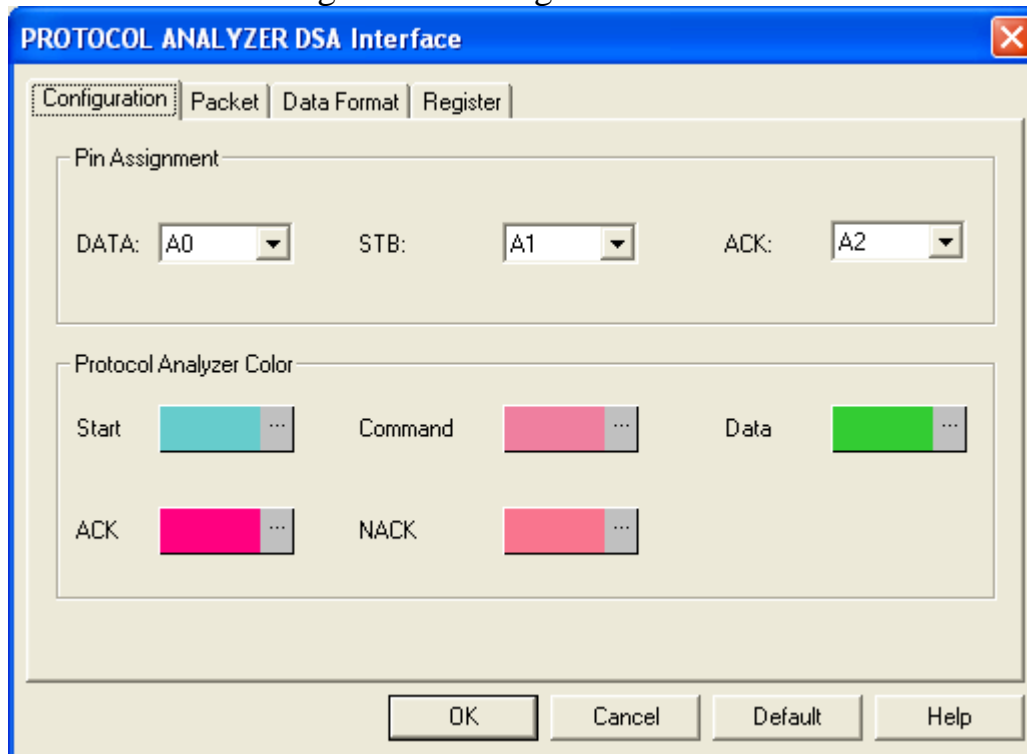




4 User Interface

Please refer to the below images to select options of setting **DSA Interface Module**

DSA Interface Configuration Dialog Box



Pin Assignment:

DATA is the Data line, and its default is A0.

STB is the Synchronous line and its default is A1.

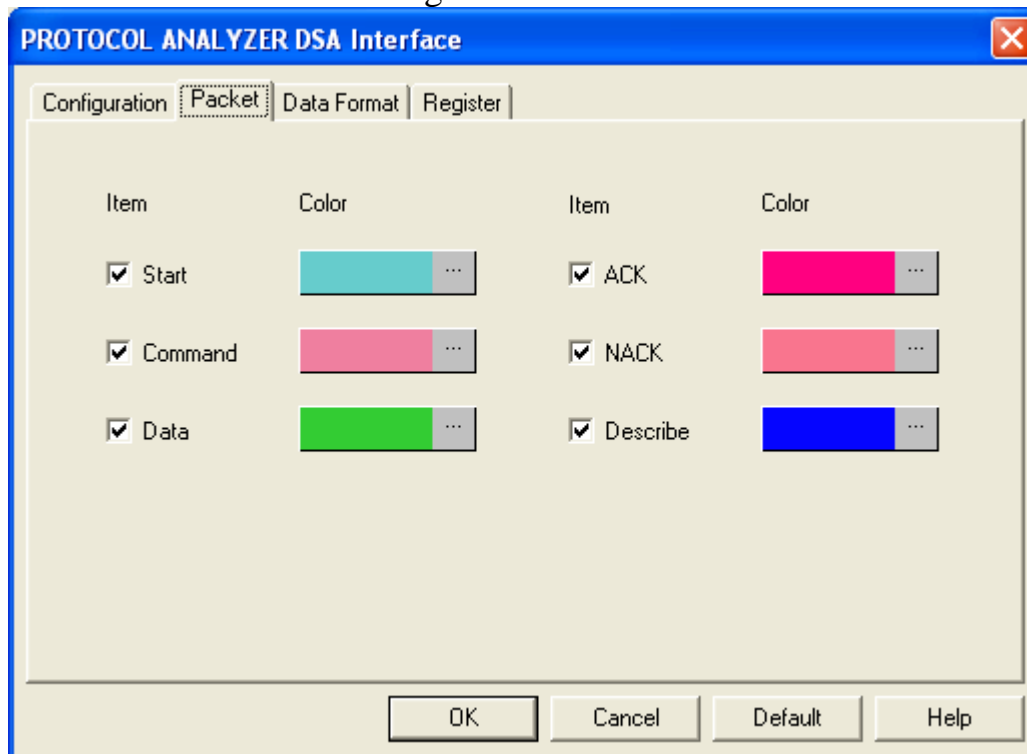
ACK is the Transmission Confirmation line and its default is A2.

Protocol Analyzer Color:

Users can vary the protocol analyzer color.

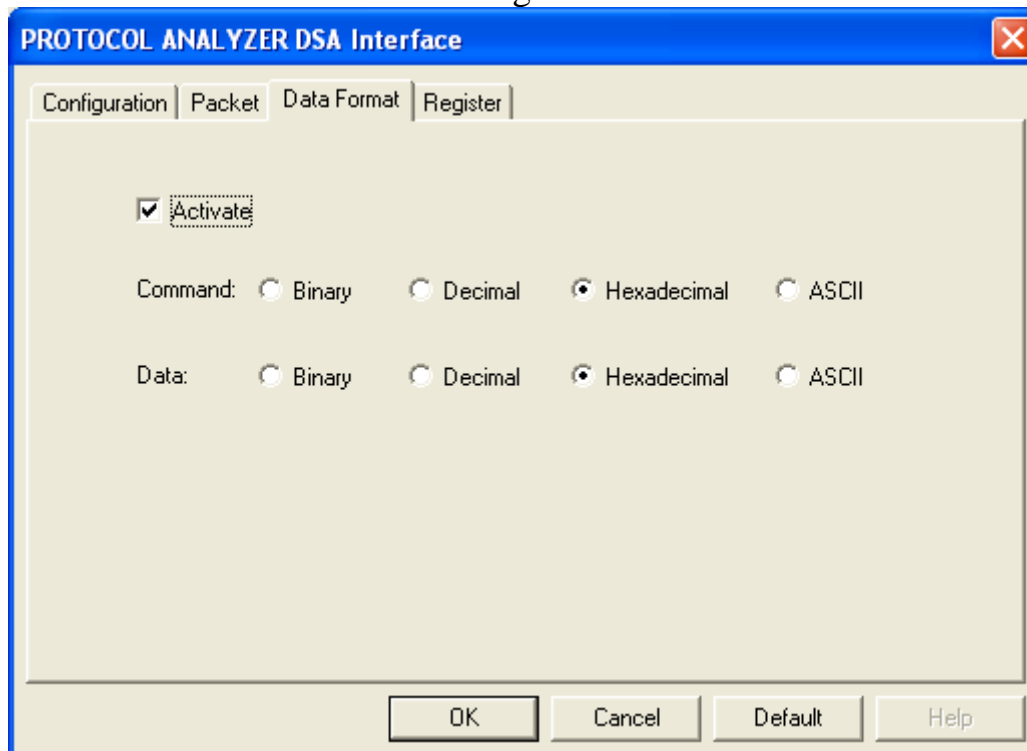


DSA Interface Packet Dialog Box



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

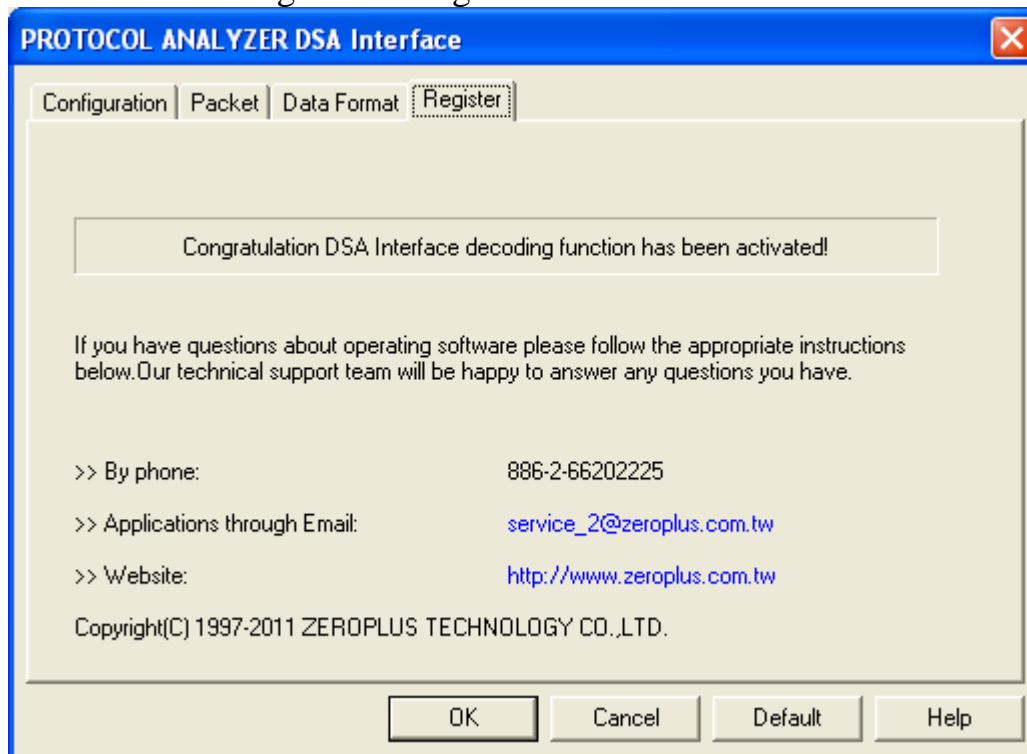
DSA Interface Data Format Dialog Box



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



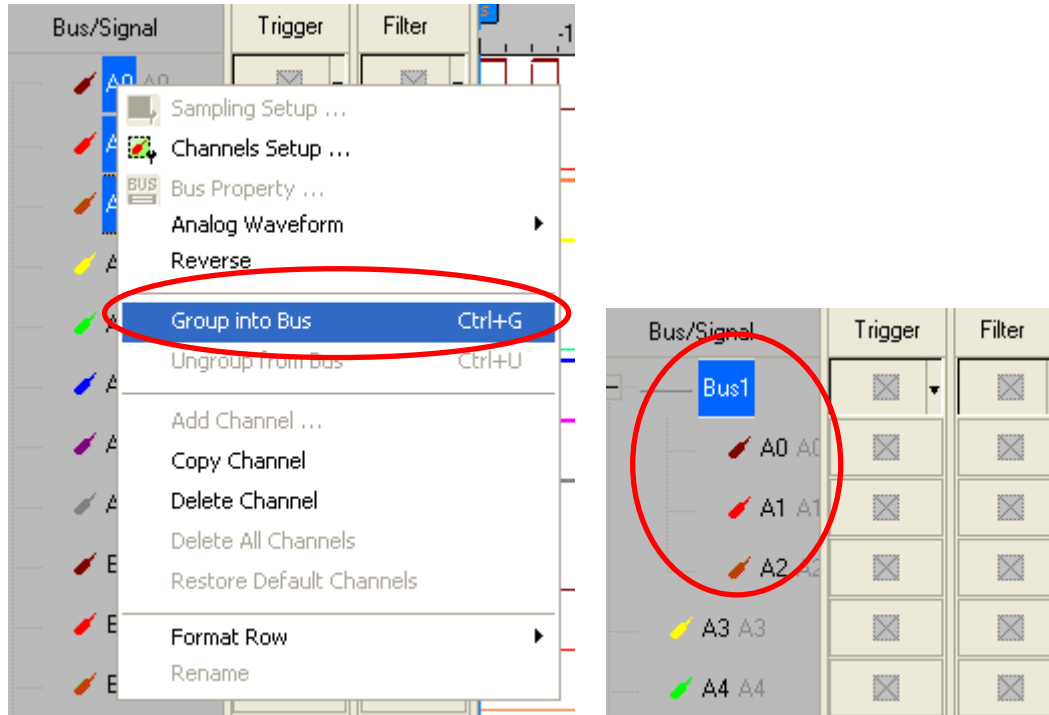
DSA Interface Register Dialog Box



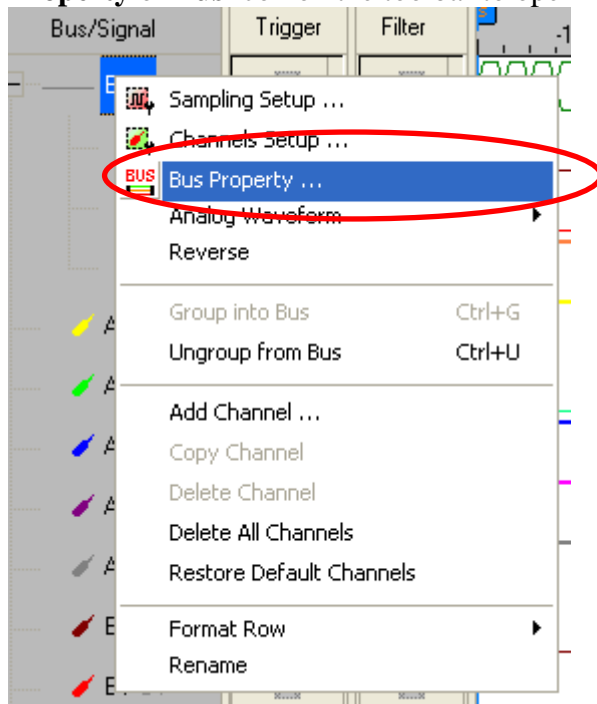
There is ZeroPlus company information details. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

5 Operating Instructions

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

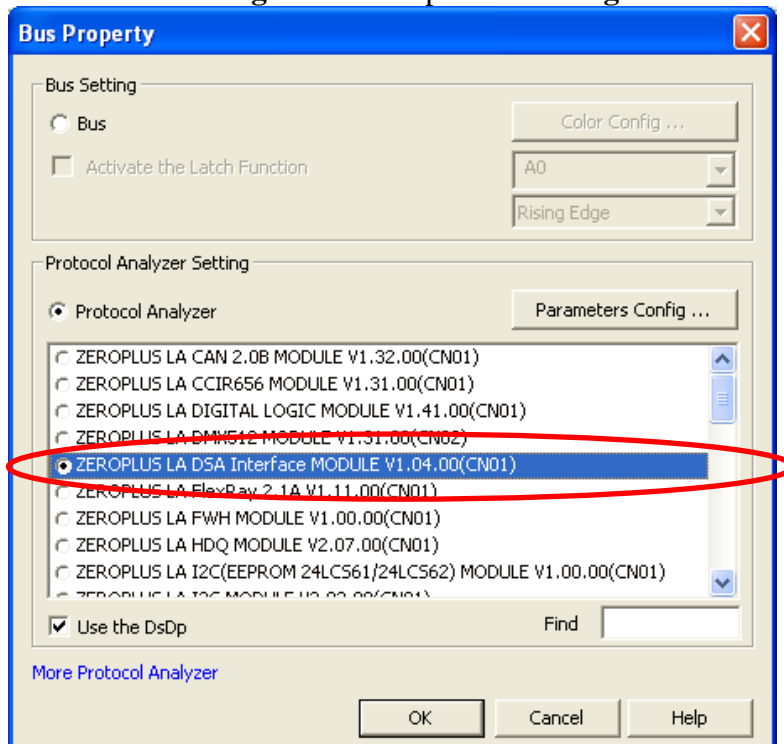


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

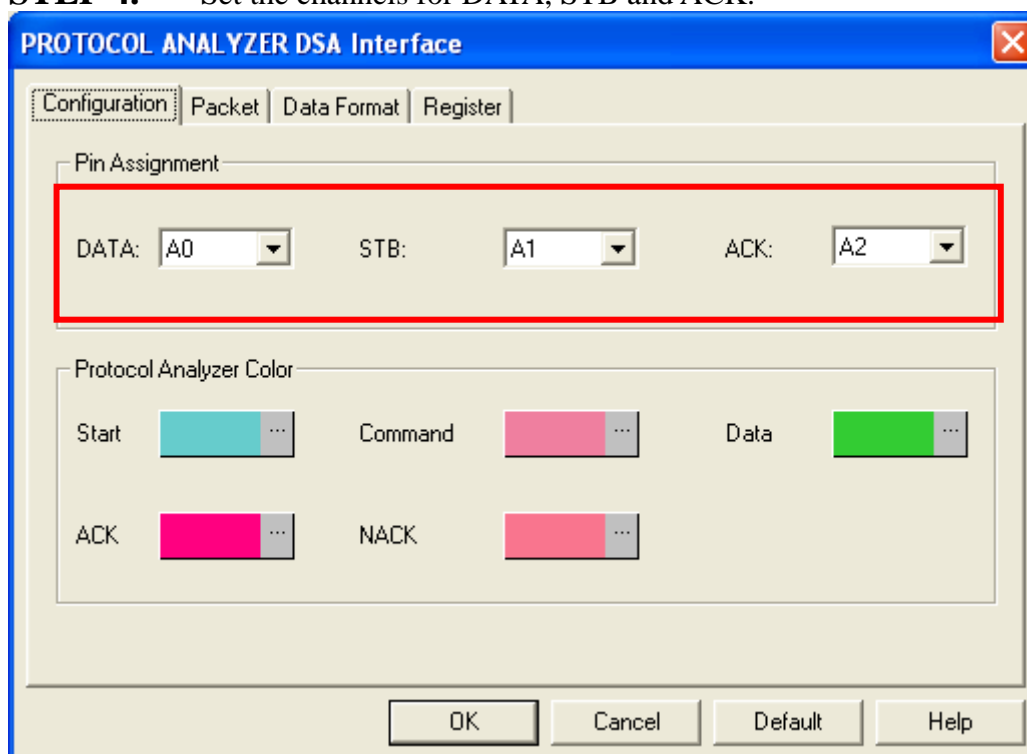




STEP 3. For Protocol Analyzer **DSA Interface** Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA DSA Interface MODULE V1.04.00(CN01)**. Next click **Parameters Configuration** to open the **Configuration** dialog box.

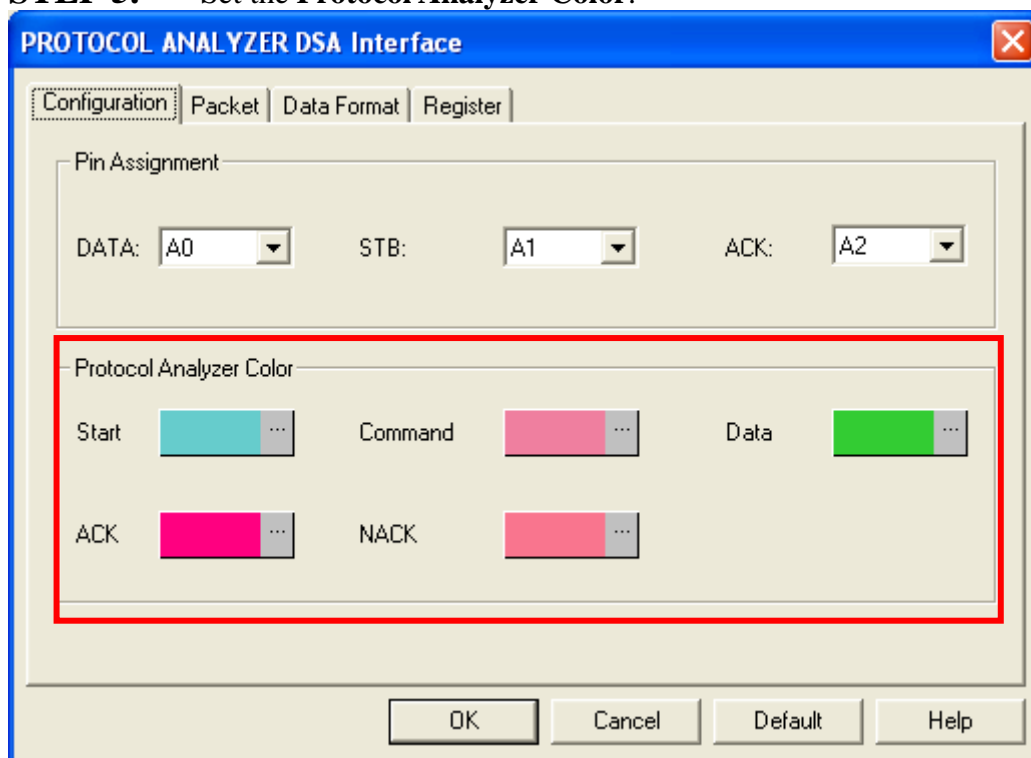


STEP 4. Set the channels for DATA, STB and ACK.





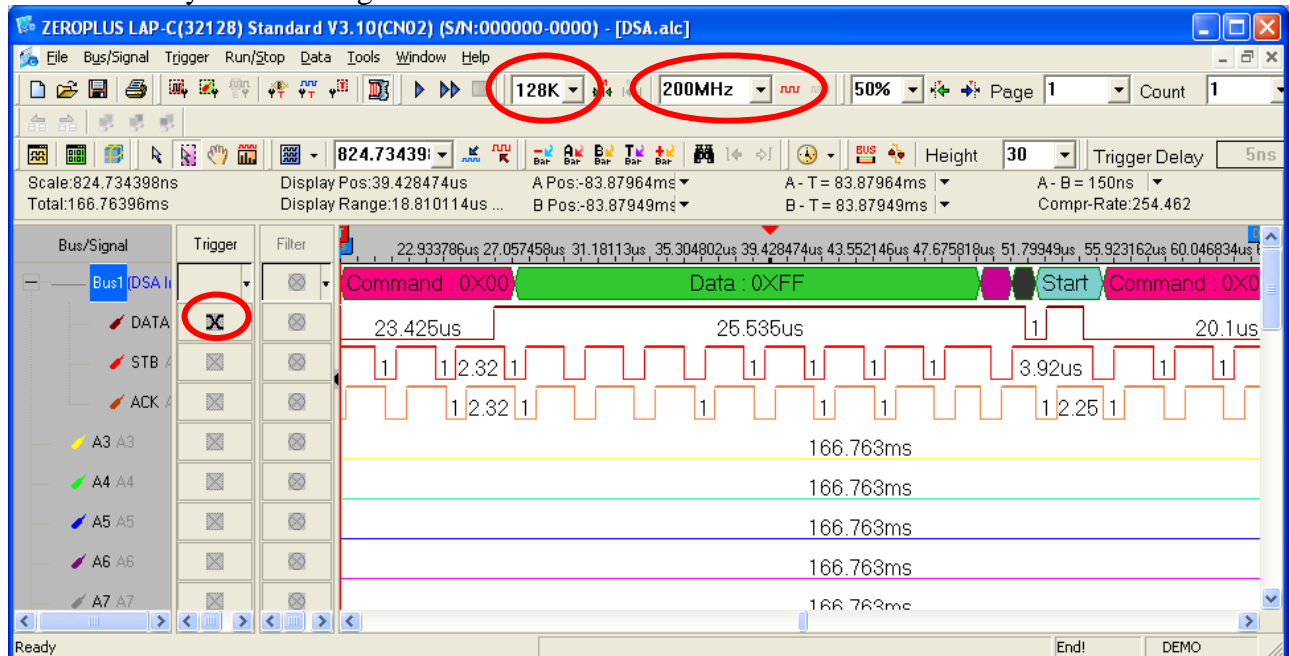
STEP 5. Set the **Protocol Analyzer Color**.





STEP 6. 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 (the sampling frequency should be more than five times higher than the signal to be tested).

Protocol Analyzer Decoding



Packet List

