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

SPECIFICATION

MODEL: B09005-LAP-UNI/O-M

PART NO： _____

VERSION： V1.01

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

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw

2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

Content

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

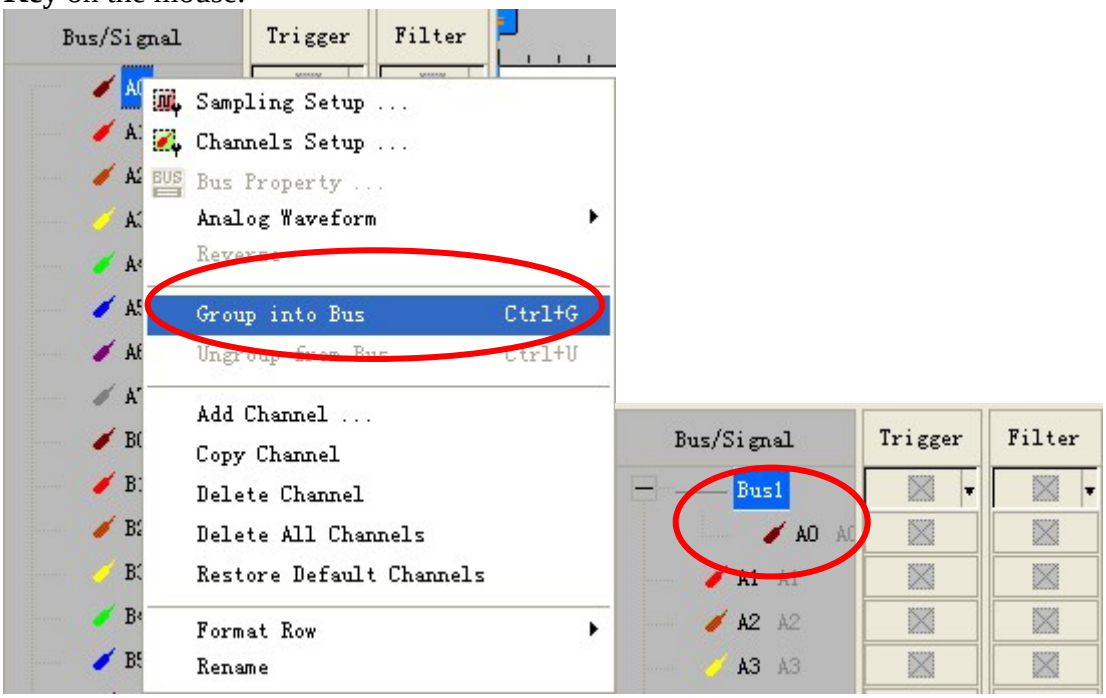
1 Software Register

Please register the software as the following steps:

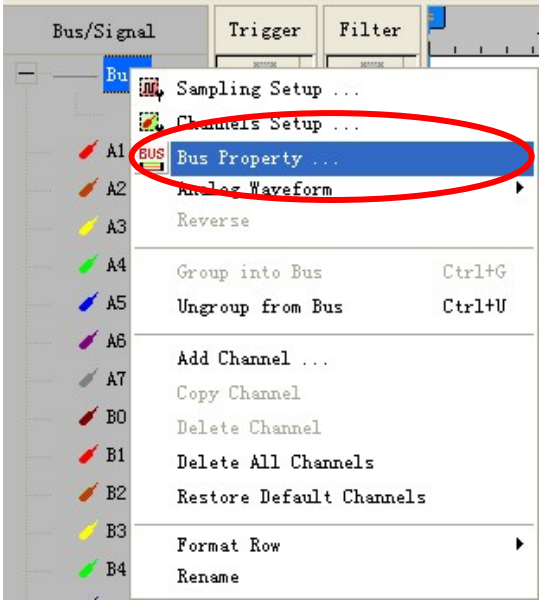
※ Remark1: The register steps for all protocol analyzers are the same; you can complete the registration by following procedures. Following is an example on how to register protocol analyzer BUS.

※ Remark2: 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. Open the Logic Analyzer and group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse.

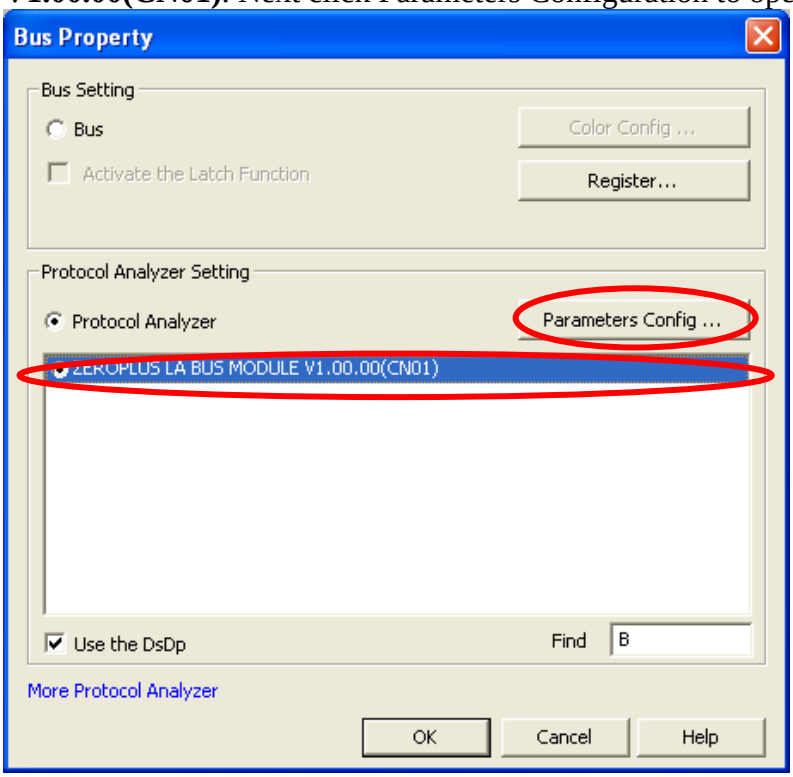


STEP 2. Select **Bus 1**, then press **Right Key** on the mouse to list the menu, and then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

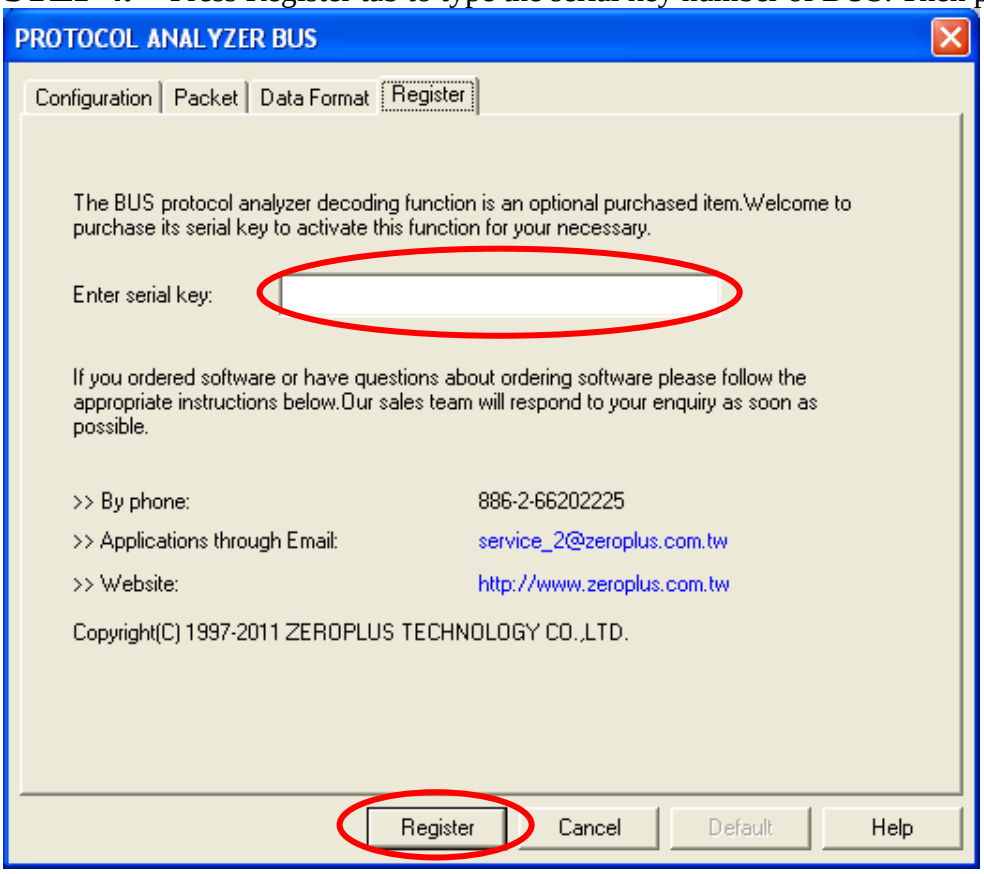


中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

STEP 3. Select the Protocol Analyzer, and then choose **ZEROPLUS LA BUS MODULE V1.00.00(CN01)**. Next click Parameters Configuration to open Protocol Analyzer Bus dialog box.



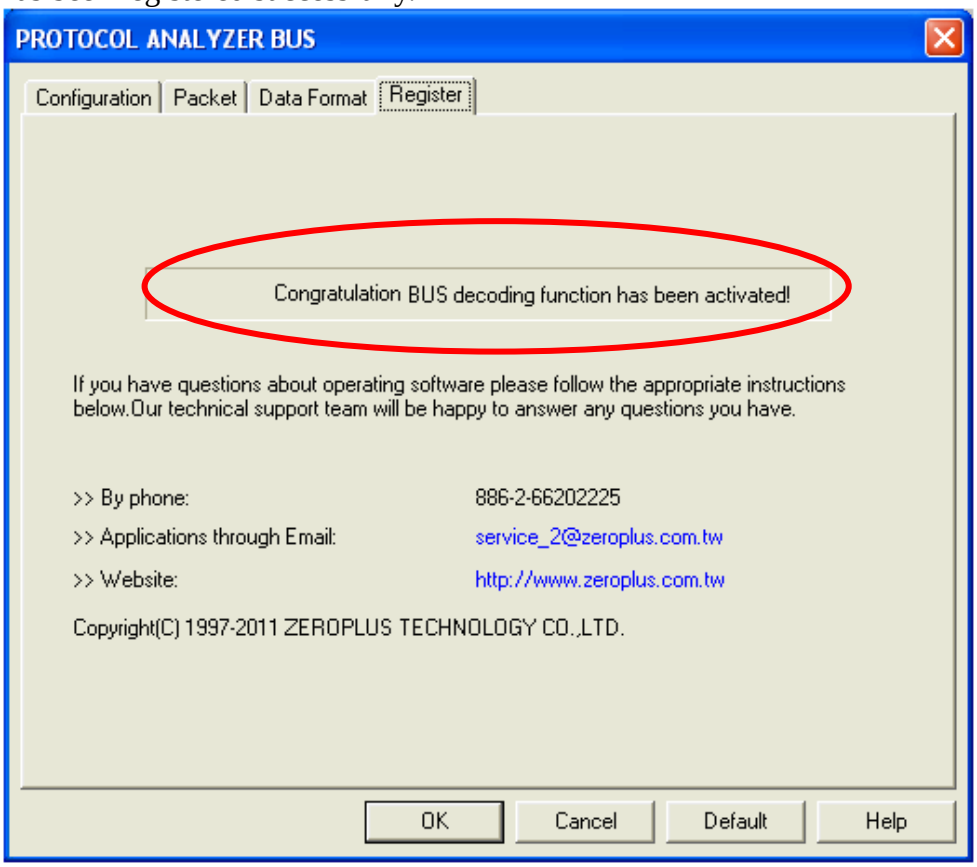
STEP 4. Press Register tab to type the serial key number of BUS. Then press Register.



中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw

2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

STEP 5. After pressing the Register button, following dialog box will appear, it denotes that the BUS has been registered successfully.

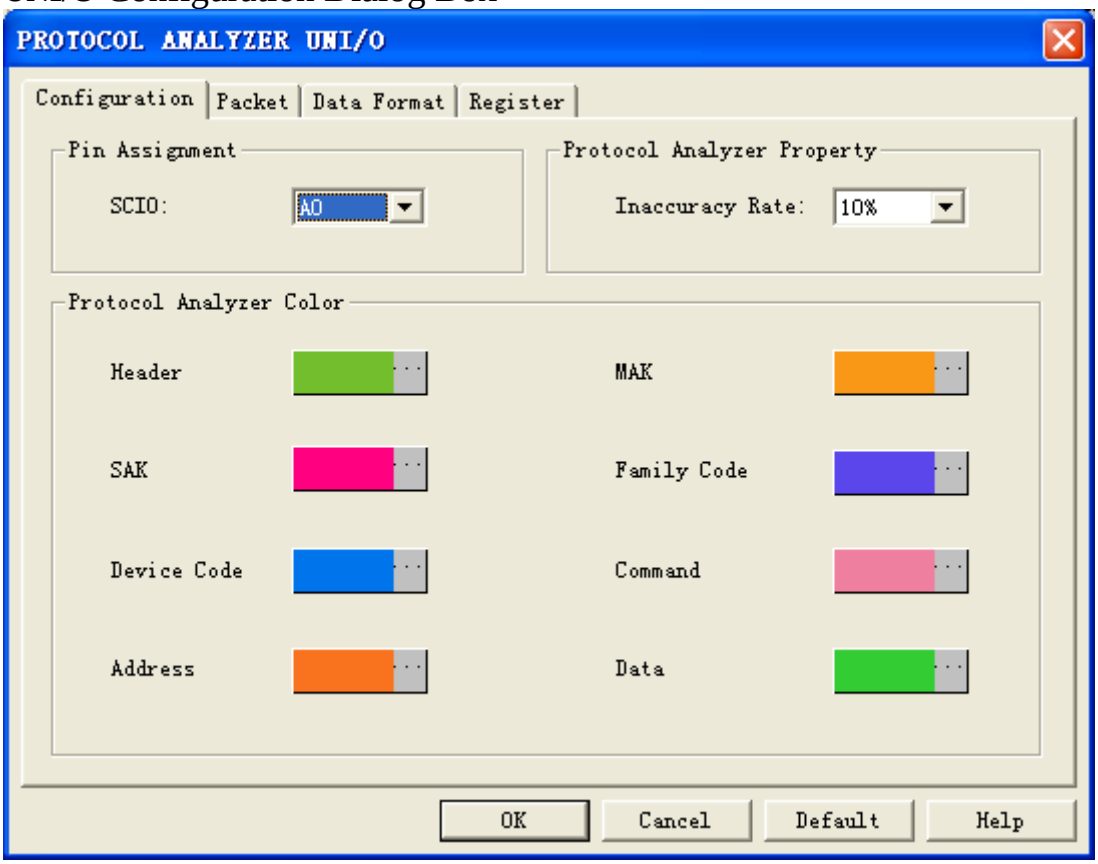


中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

2 User Interface

In the configuration, please refer to the below images to select options of setting UNI/O module.

UNI/O Configuration Dialog Box



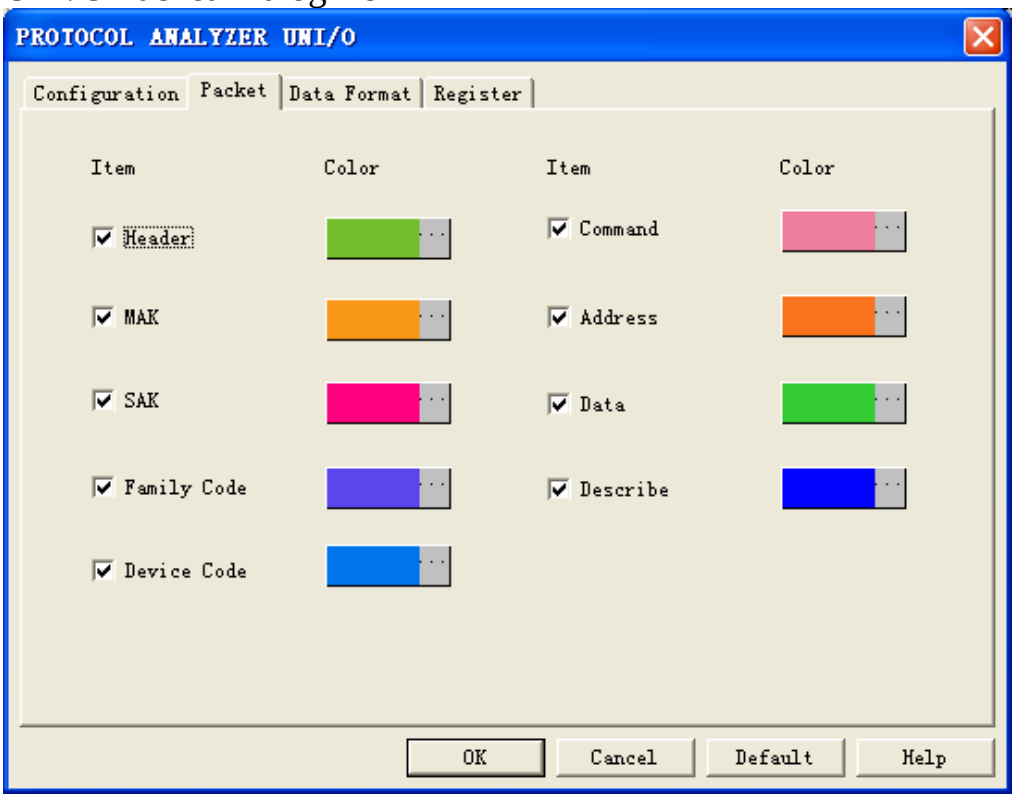
Pin Assignment:
SCIO: It is the signal channel of the UNI/O, and the default is A0.

Protocol Analyzer Property:
Inaccuracy Rate: Set the Offset Range of the Rising Edge or Falling Edge which happens at the middle Bit of the Manchester decoding. The default is “10%”; it means that it will judge the Edge in the range of 40% and 60% of the Bit. Users can choose the selectable value from the pull-down menu, which consists of 5%, 10% and 15%.

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

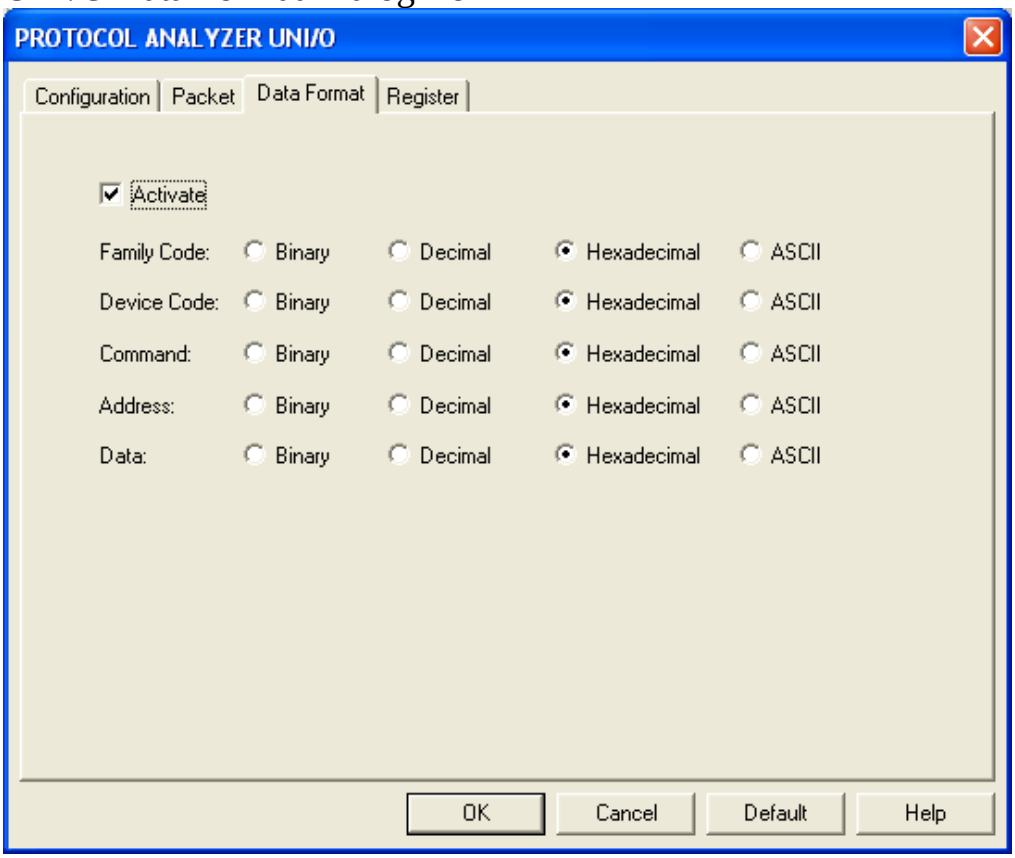
中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

UNI/O Packet Dialog Box



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

UNI/O Data Format Dialog Box

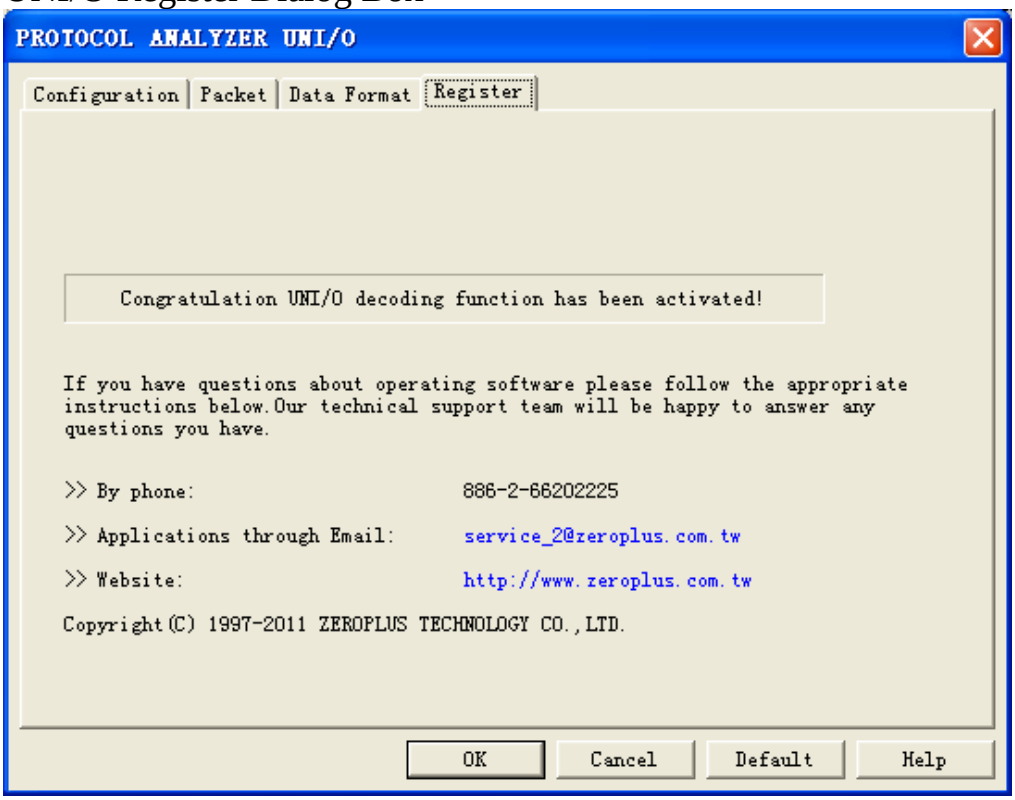


Users can set the Data Format of (Family Code, Device Code, Command, Address and Data) as their requirements. When selecting the option, **Activate**, the data format is decided by the settings in the Protocol

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

Analyzer; when not selecting the option, **Activate**, the data format is decided by the settings in the main program.

UNI/O Register Dialog Box

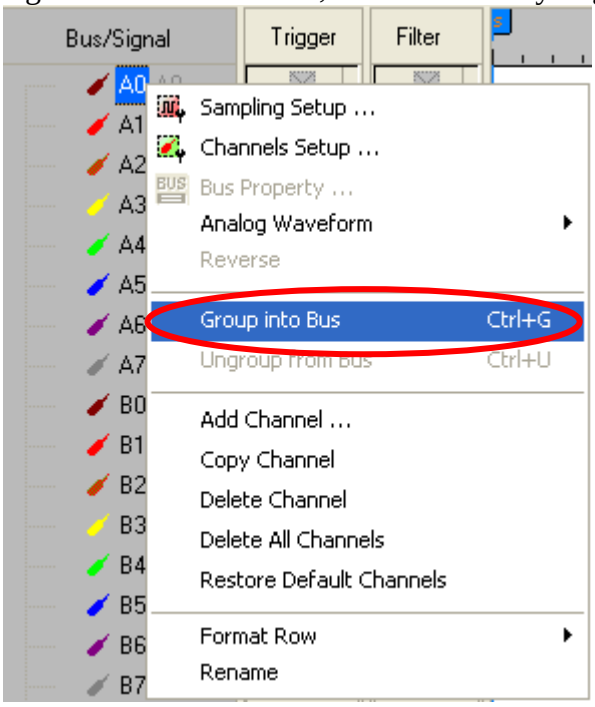


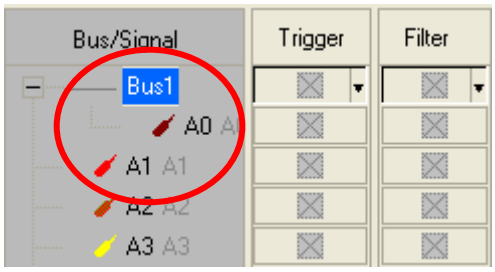
There is written Zeroplus company information. If you have any questions about software operations, you can contact Zeroplus by Telephone or Email.

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

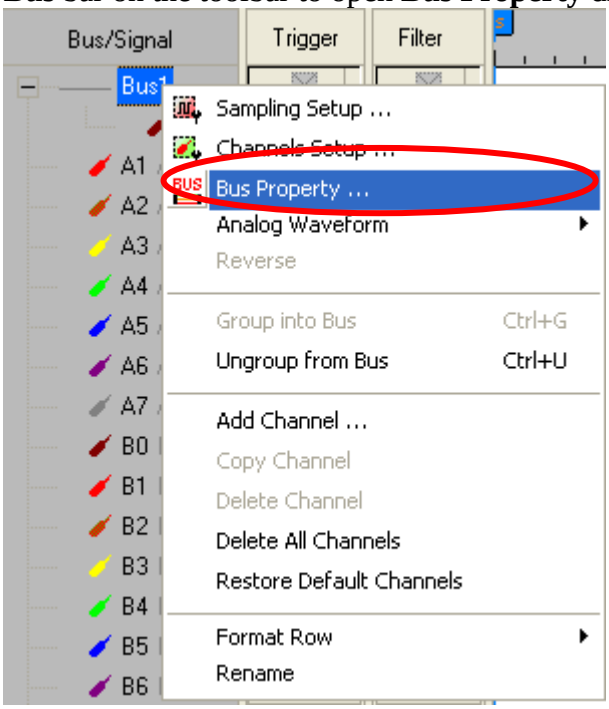
3 Operating Instructions

STEP 1. Group the A0 into **Bus1** by pressing the **Right Key** on the mouse. UNI/O only needs one signal channel to decode, so it is necessary to group one channel or more into a Bus.



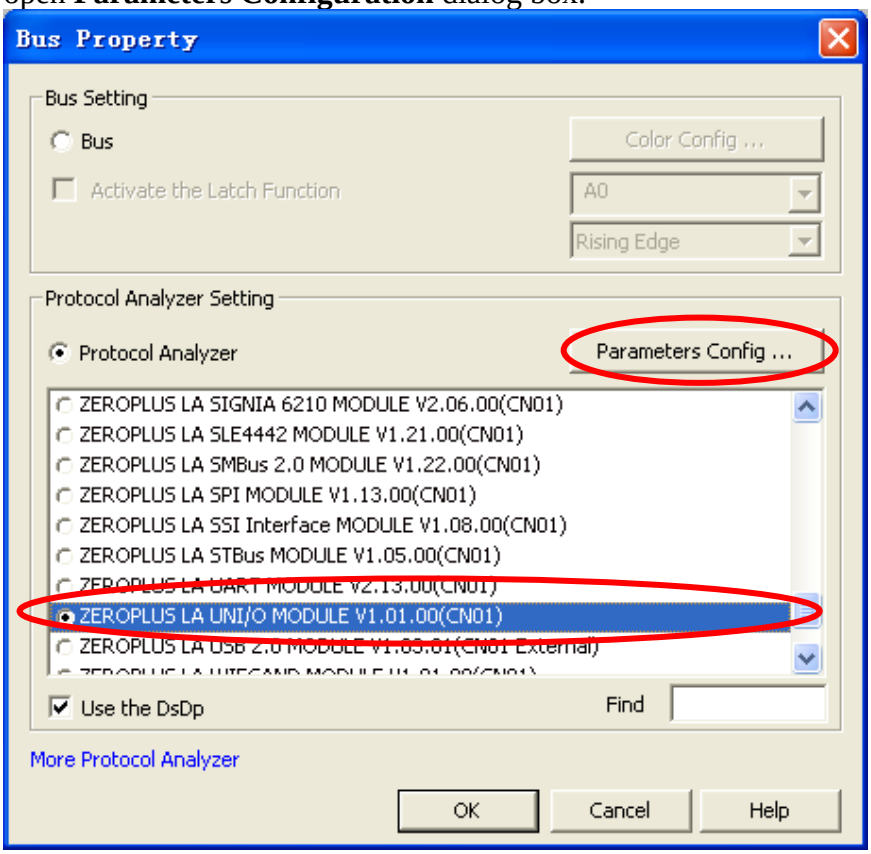


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** bar on the toolbar to open **Bus Property** dialog box.

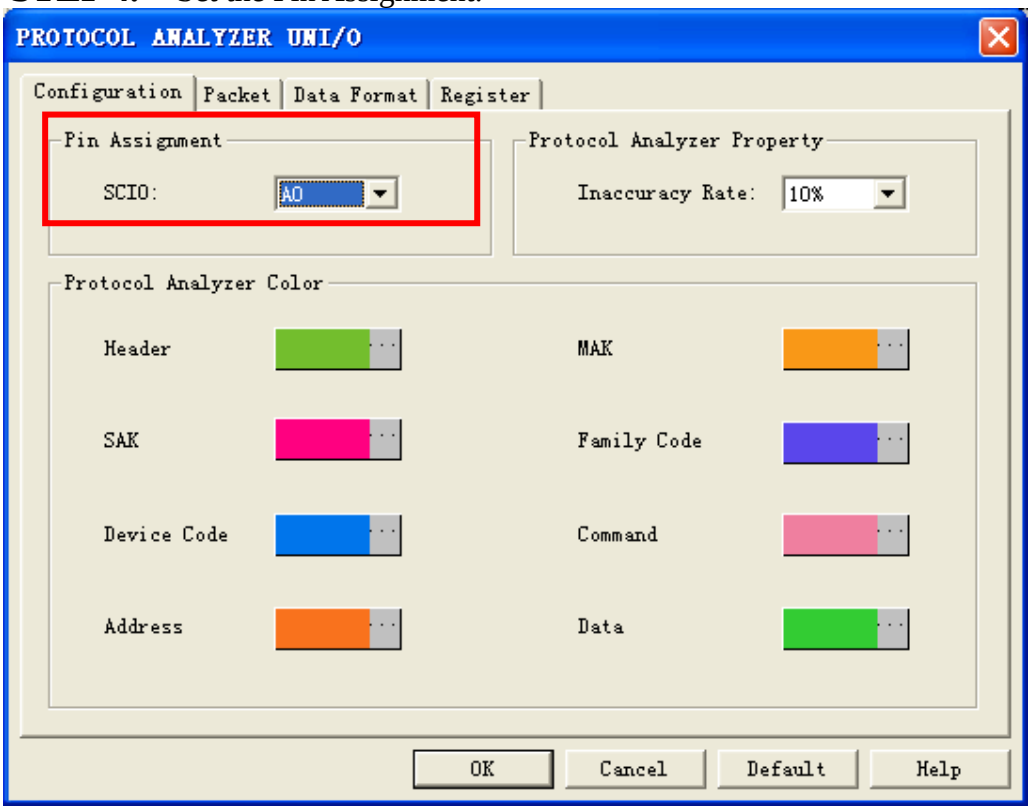


中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

STEP 3. For Protocol Analyzer UNI/O Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA UNI/O MODULE V1.01.00 (CN01)**. Next click **Parameters Configuration** to open **Parameters Configuration** dialog box.



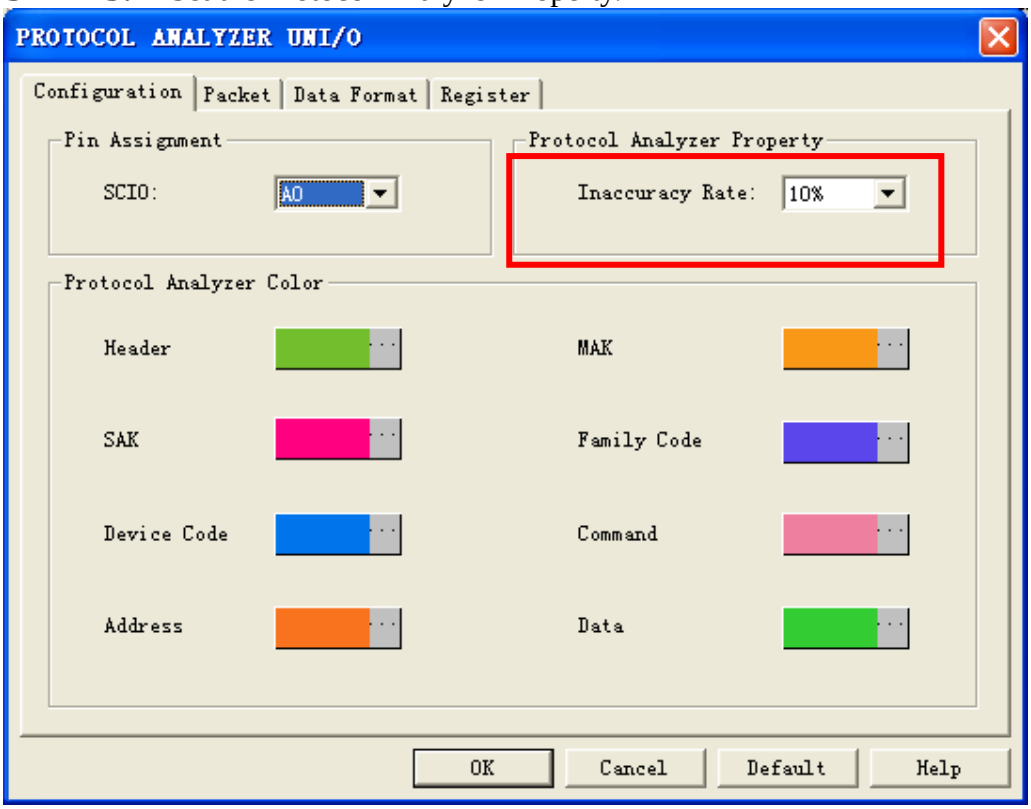
STEP 4. Set the Pin Assignment.



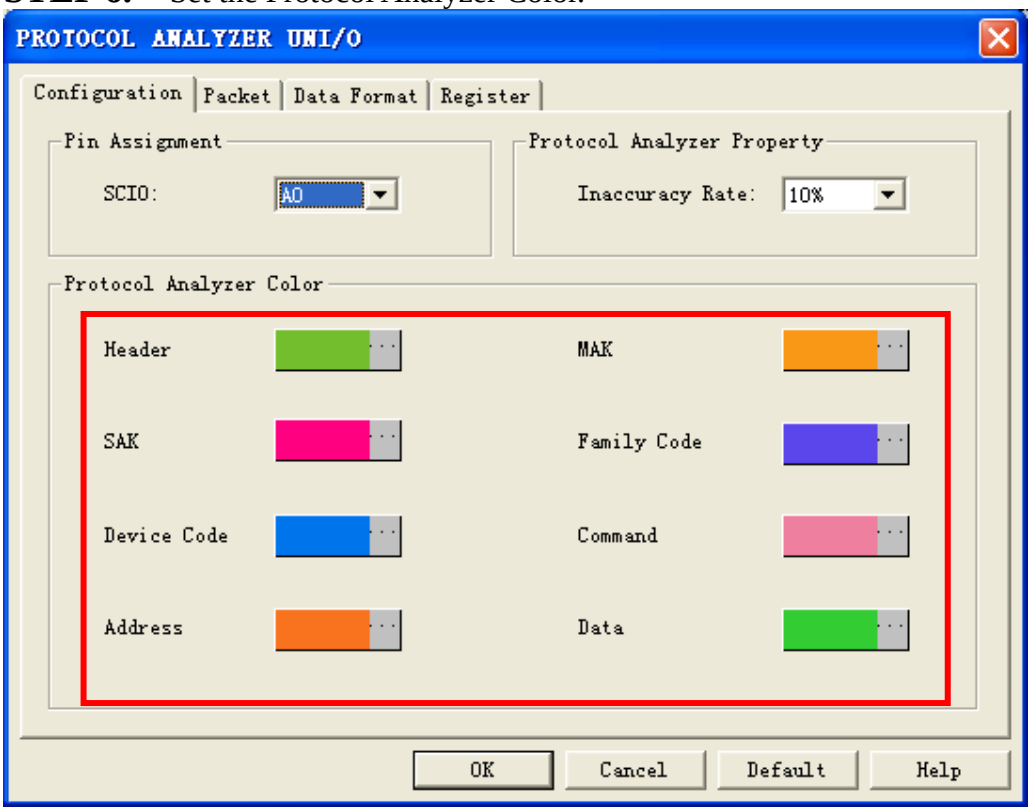
中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw

2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

STEP 5. Set the Protocol Analyzer Property.



STEP 6. Set the Protocol Analyzer Color.

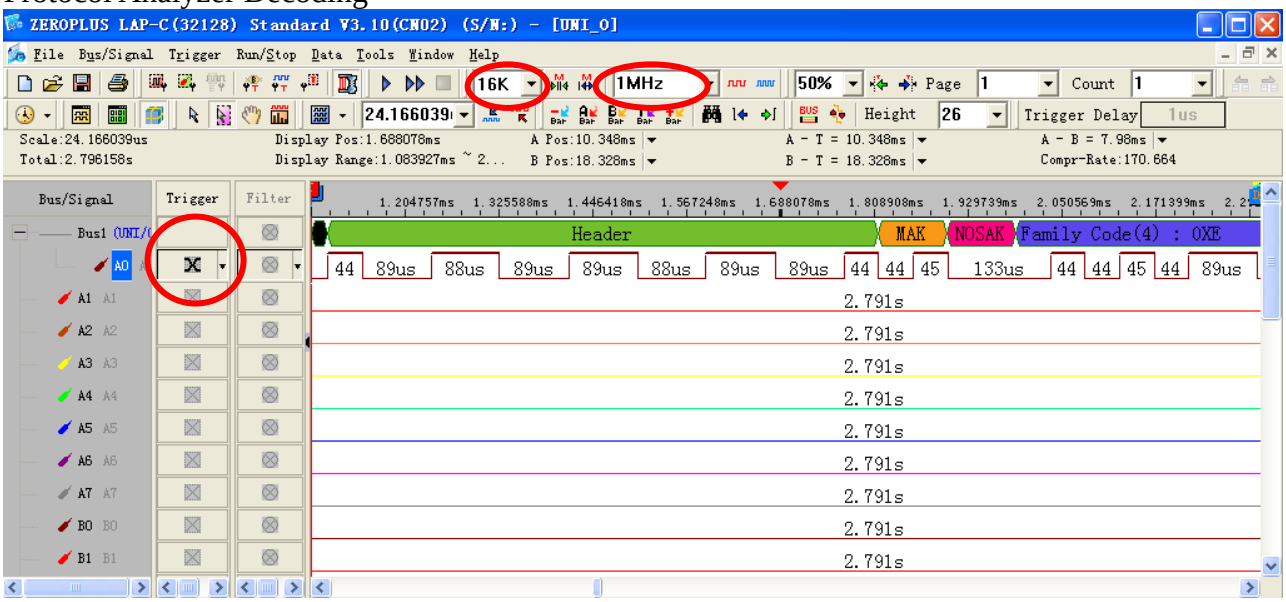


中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw

2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

STEP 7. Following pictures show the completion of the protocol analyzer decoding and the packet list. The trigger condition is set as Either Level; the memory depth is 16K; the sampling frequency is 1MHz. (the sampling frequency should be more than 10 times higher than the signal to be tested)

Protocol Analyzer Decoding



Packet List