



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

SPECIFICATION

MODEL: B10014-LAP-FWH-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



Content

1 Software Register	3
2 User Interface	6
3 Operating Instructions	11

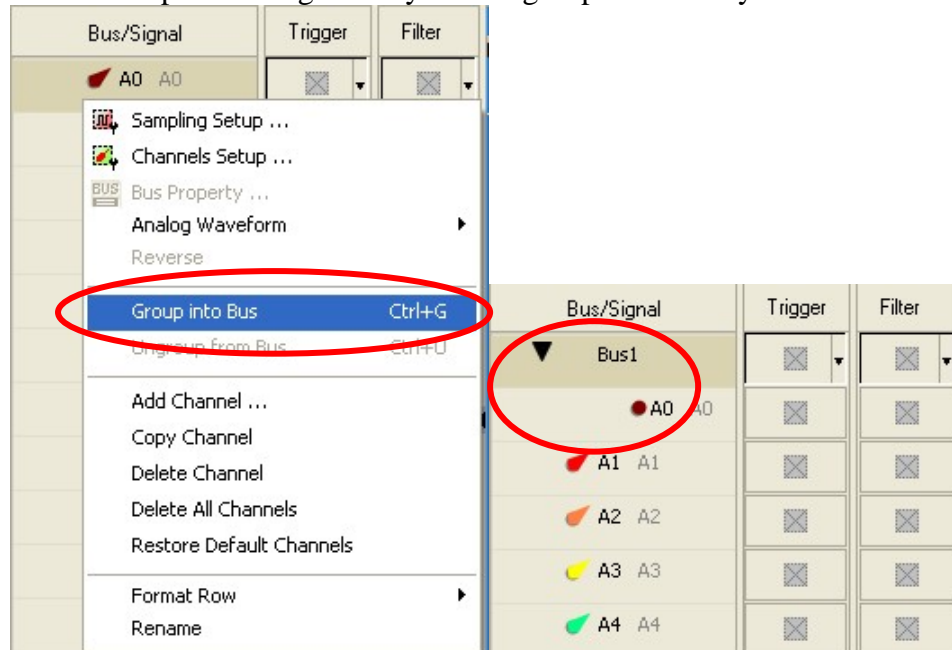
1 Software Register

Please register the software as the following steps:

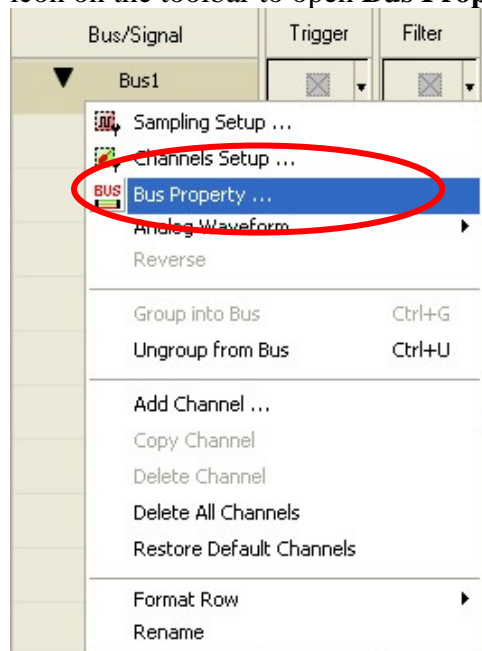
※ **Remark1:** The registration steps for all protocol analyzers are the same; you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.

※ **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.

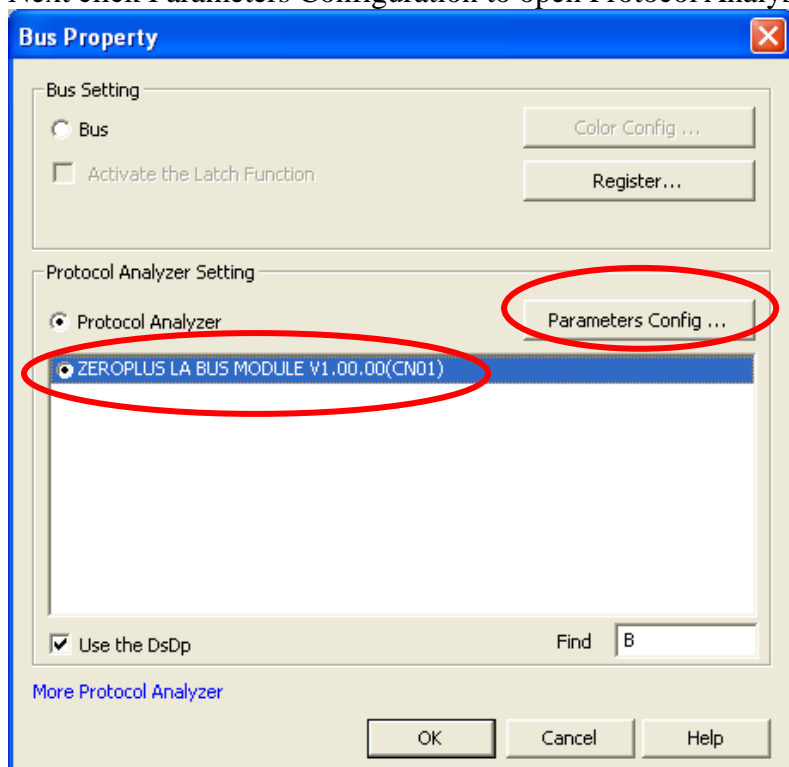
STEP 1. Open the Logic Analyzer and group the unanalyzed channels into **Bus1** by pressing the **Right Key**.



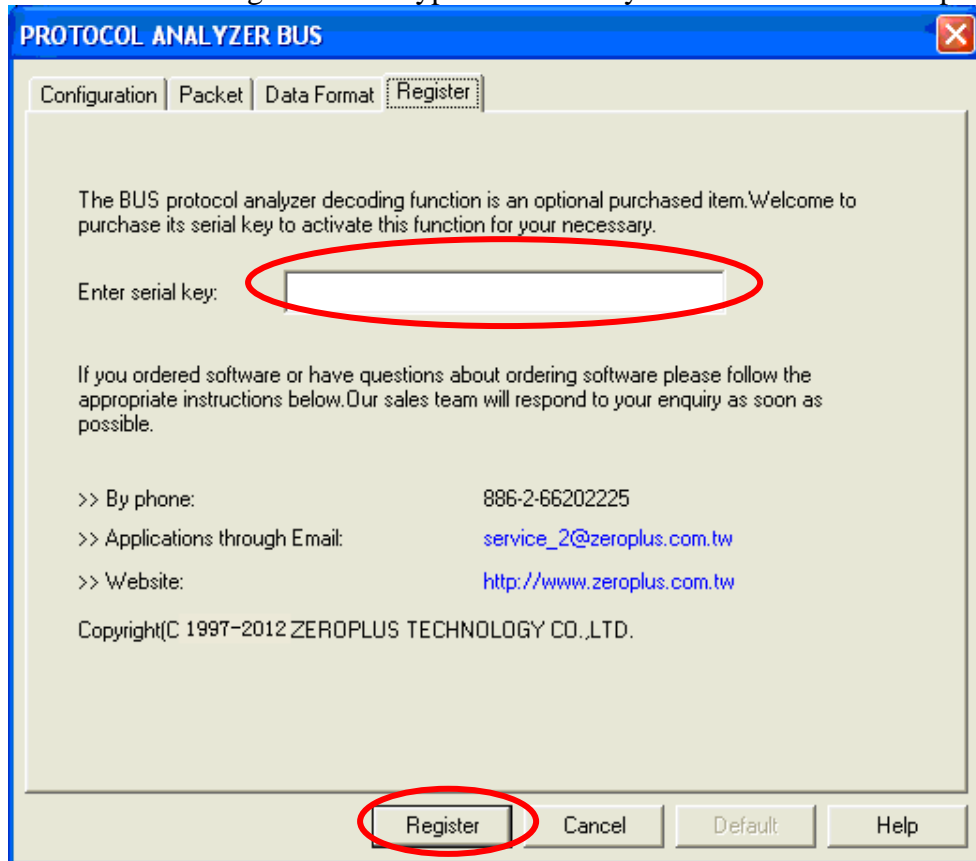
STEP 2. Select **Bus 1**, then press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.



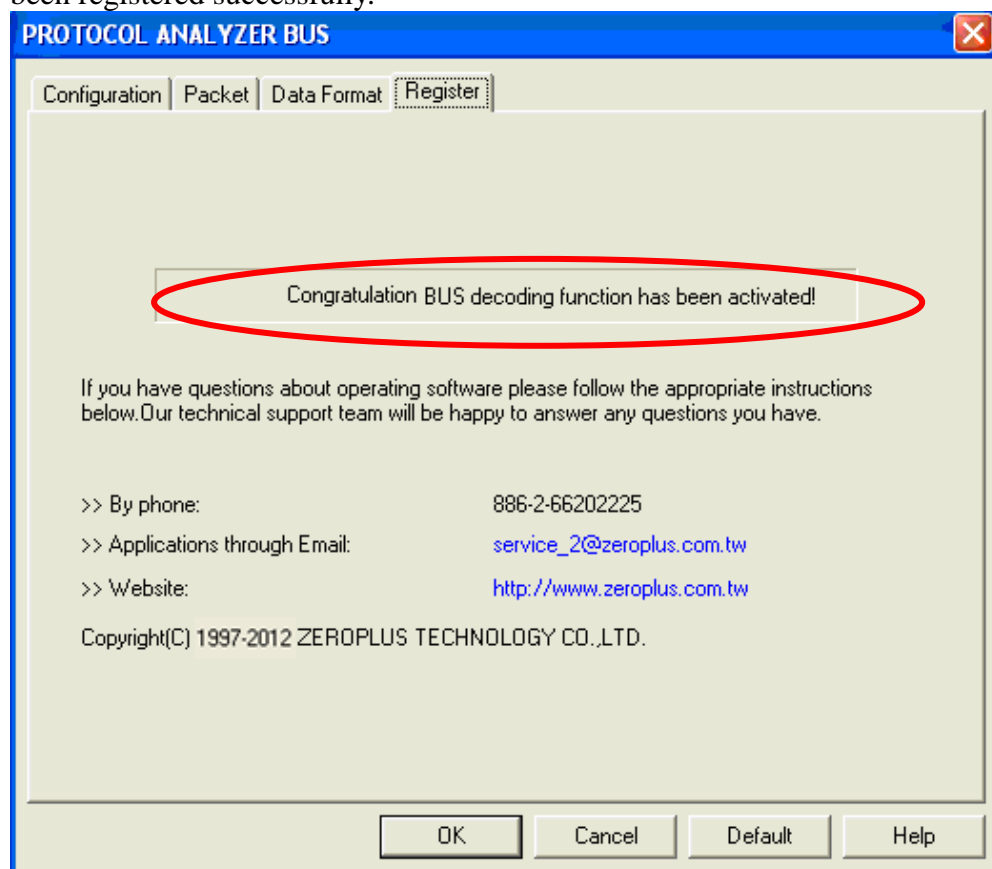
STEP 3. Select the Protocol Analyzer, and then choose **ZEROPLUS LA BUS MODULE V1.00.00 (CN01)**. Next click Parameters Configuration to open Protocol Analyzer Bus dialog box.



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



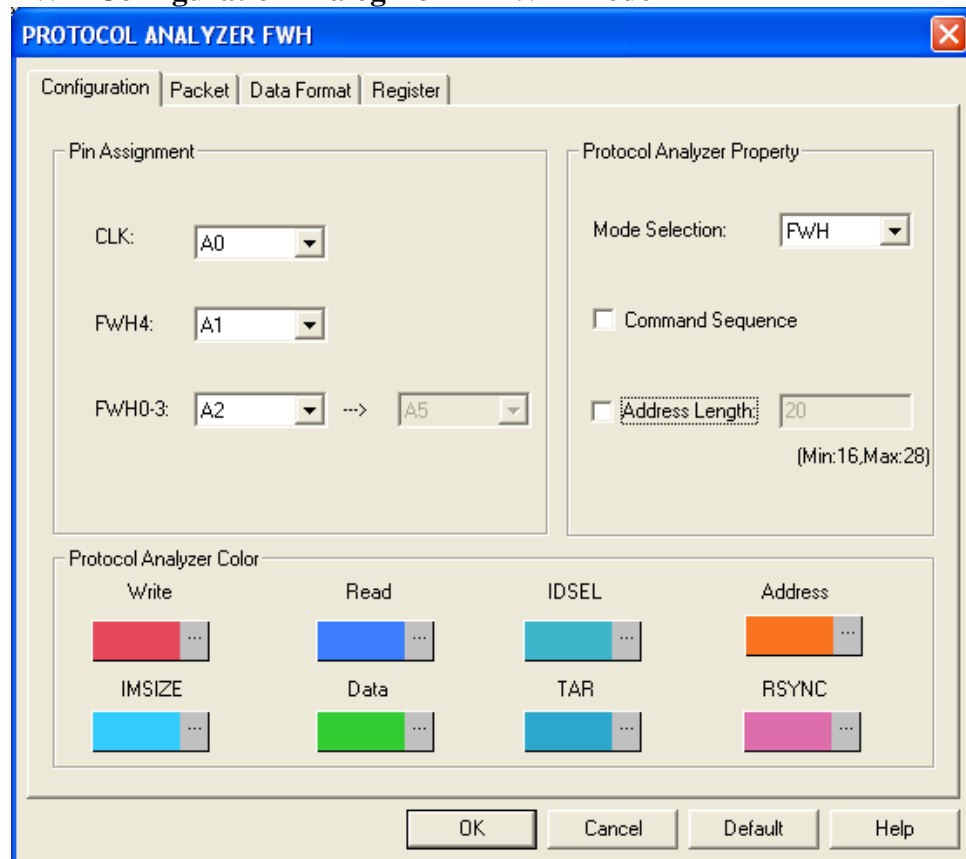
STEP 5. After pressing the Register button, following dialog box will appear, it denotes that the BUS has been registered successfully.



2 User Interface

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

FWH Configuration Dialog Box in FWH Mode





FWH Configuration Dialog Box in PP Mode

PROTOCOL ANALYZER FWH

Configuration | Packet | Data Format | Register

Pin Assignment

DQ0-7: A0 ---> A7

ADDR0-10: B0 ---> C2

R/C: C3

WE: C4

OE: C5

Protocol Analyzer Property

Mode Selection: PP

☐ Command Sequence

☐ Address Length: 20 (Min:16,Max:28)

Protocol Analyzer Color

Write	Read	IDSEL	Address
IMSIZE	Data	TAR	RSYNC

OK Cancel Default Help

Pin Assignment:

In the FWH mode, FWH needs six channels (CLK, FWH4 and FWH0-3) to decode the signal;
In the PP mode, FWH needs twenty-two channels (DQ0-7, ADDR0-10, R/C, WE and OE) to decode the signal.

Protocol Analyzer Property:

Mode Selection: Set the Mode to FWH or PP.

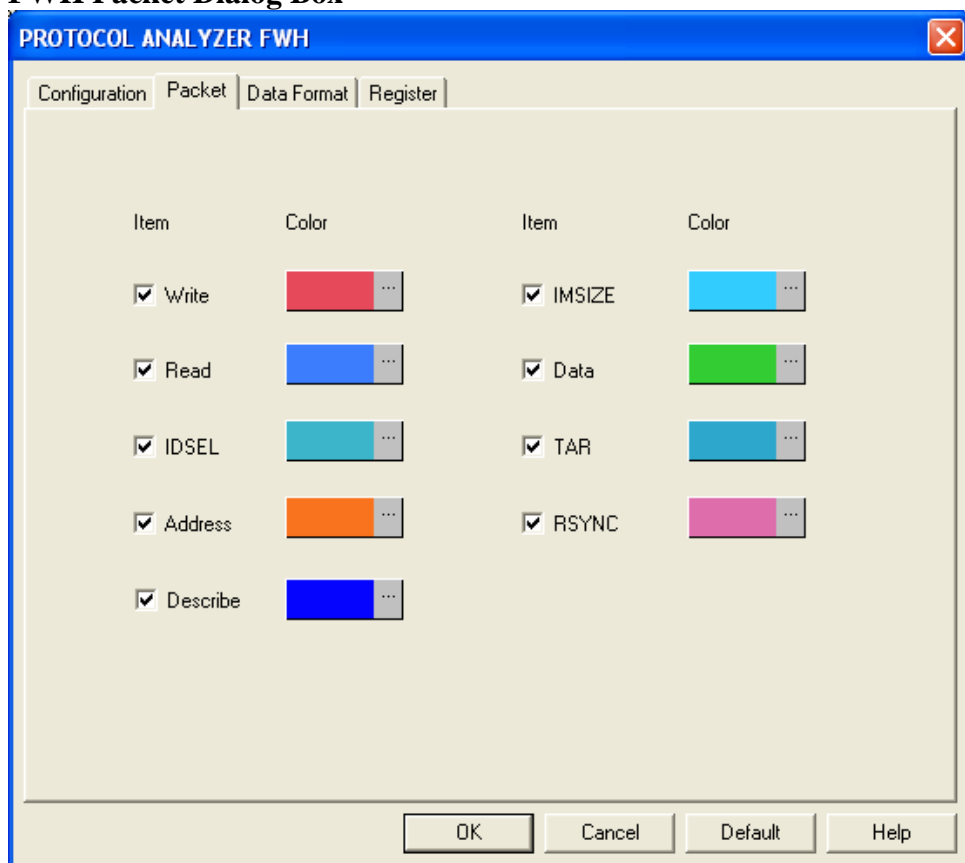
Command Sequence: When it is enabled, the Command Sequence can be used as the Second-order decoding. And it can be used to decode the Second-order Data and divide the Packets again.

Address Length: Set the Length in the range from 16 to 28 when it is enabled, and the default is 20.

Protocol Analyzer Color:

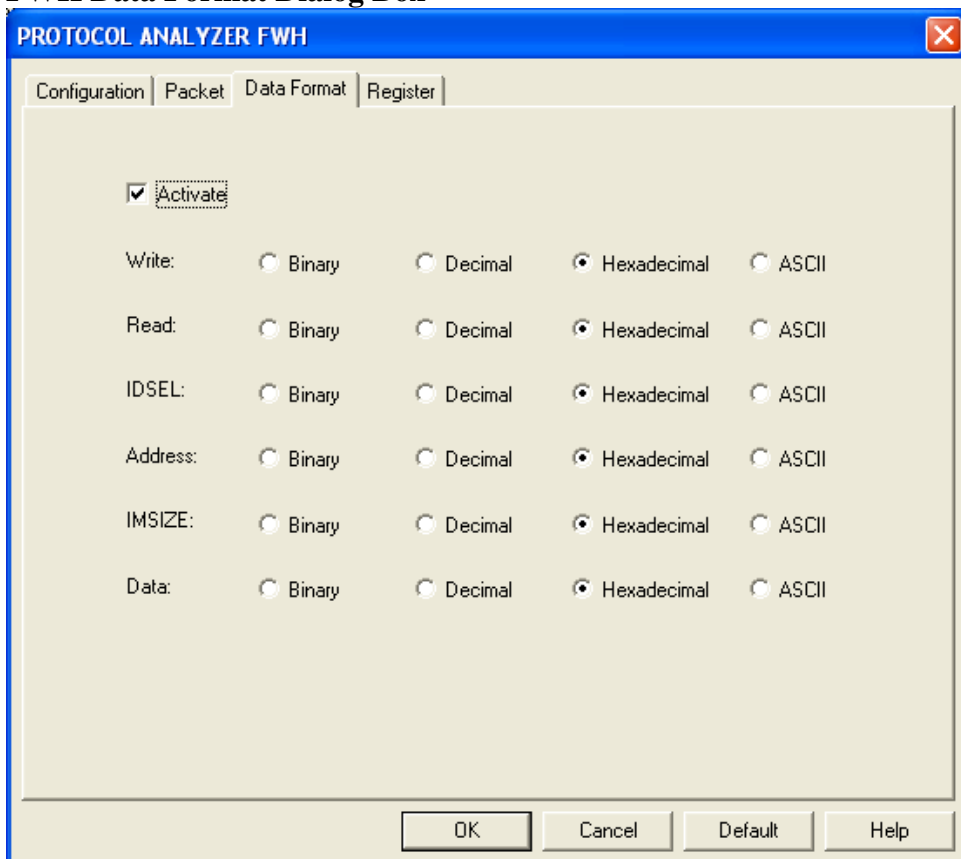
The color can be varied by users.

FWH Packet Dialog Box



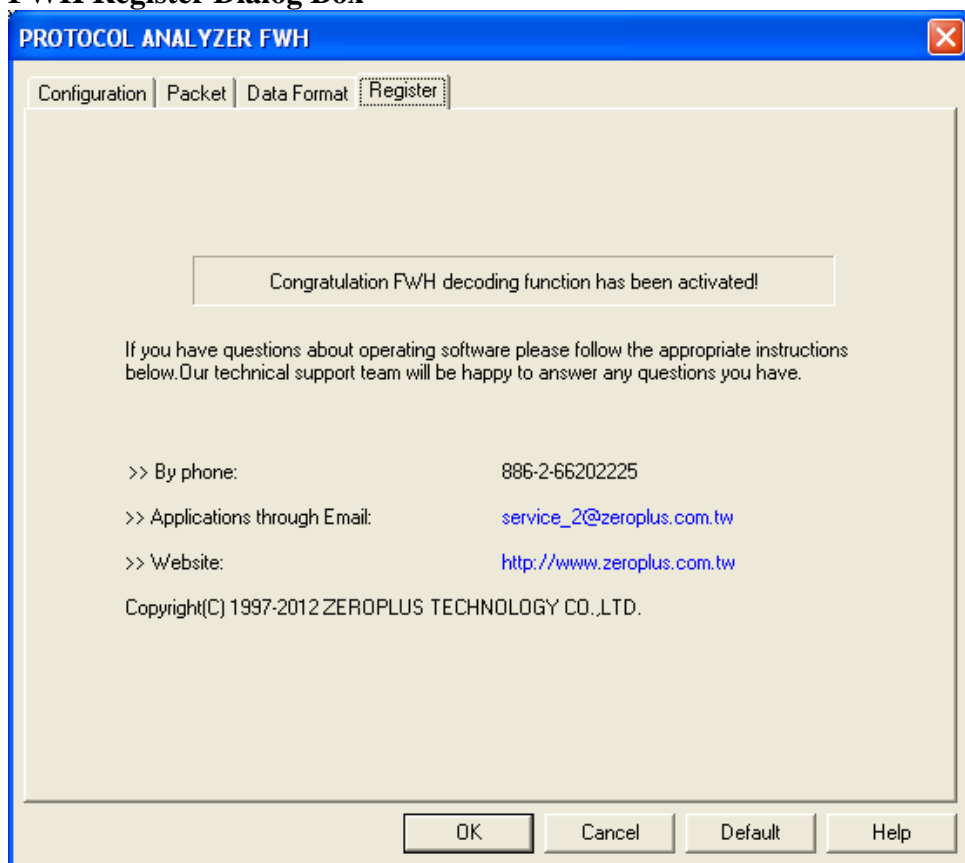
In the Packet part, users can select the items to be displayed and their colors as their requirements.

FWH Data Format Dialog Box



Users can set the Data Format of the Write, Read, IDSEL, Address, IMSIZE 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.

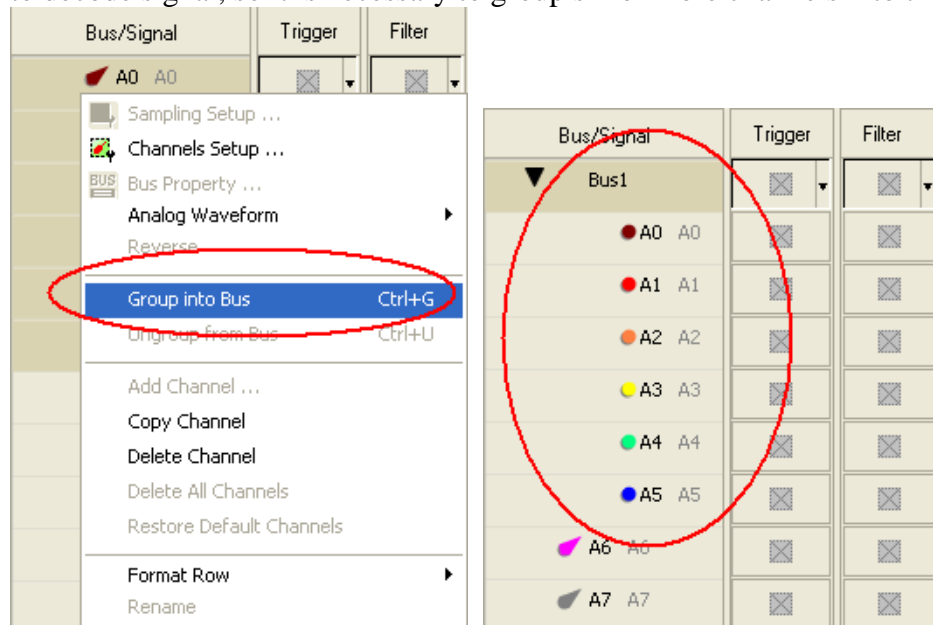
FWH Register Dialog Box



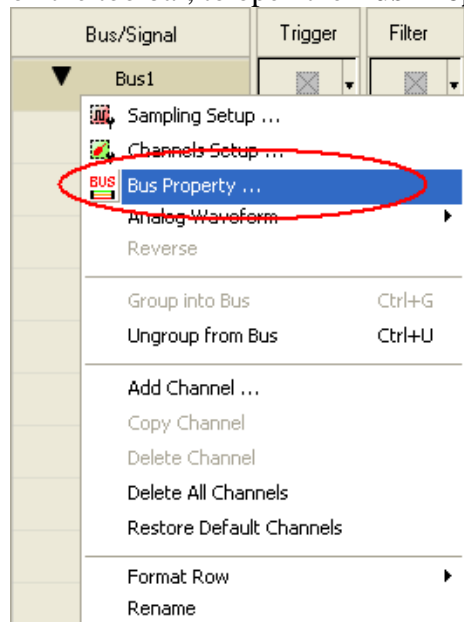
There is written ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

3 Operating Instructions

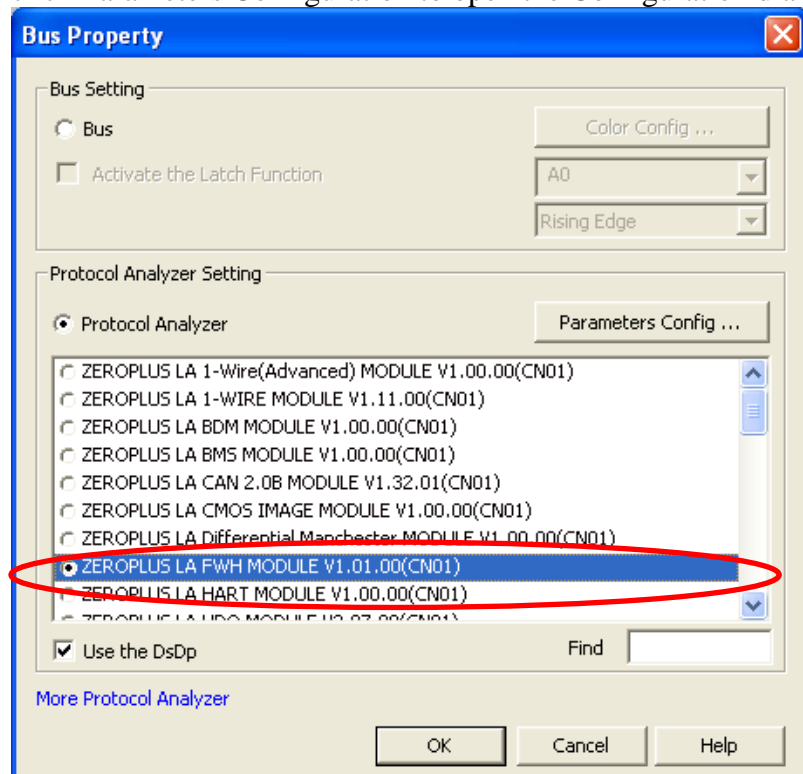
STEP 1. Group A0-A5 into **Bus1** by pressing the **Right Key** on the mouse. FWH needs at least six channels to decode signal, so it is necessary to group six or more channels into the Bus.



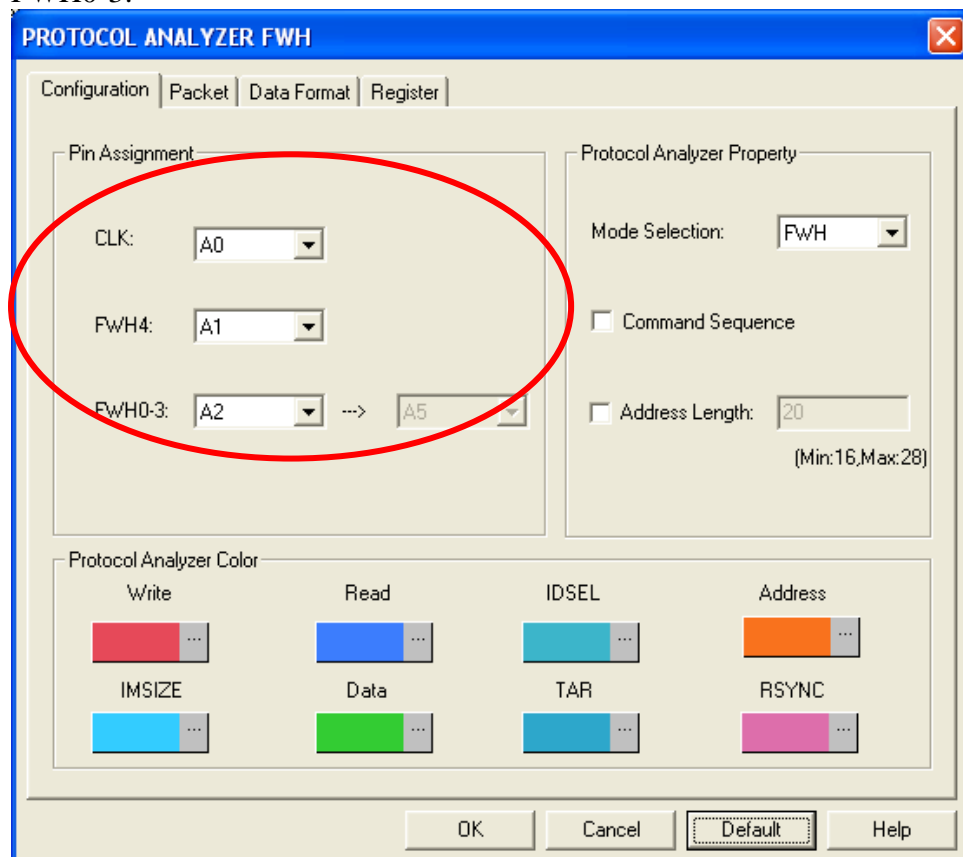
STEP 2. Select **Bus1**, press right key and select **Bus Property** from the popped menu, or click the **Bus** icon on the toolbar, to open the **Bus Property** dialog box.



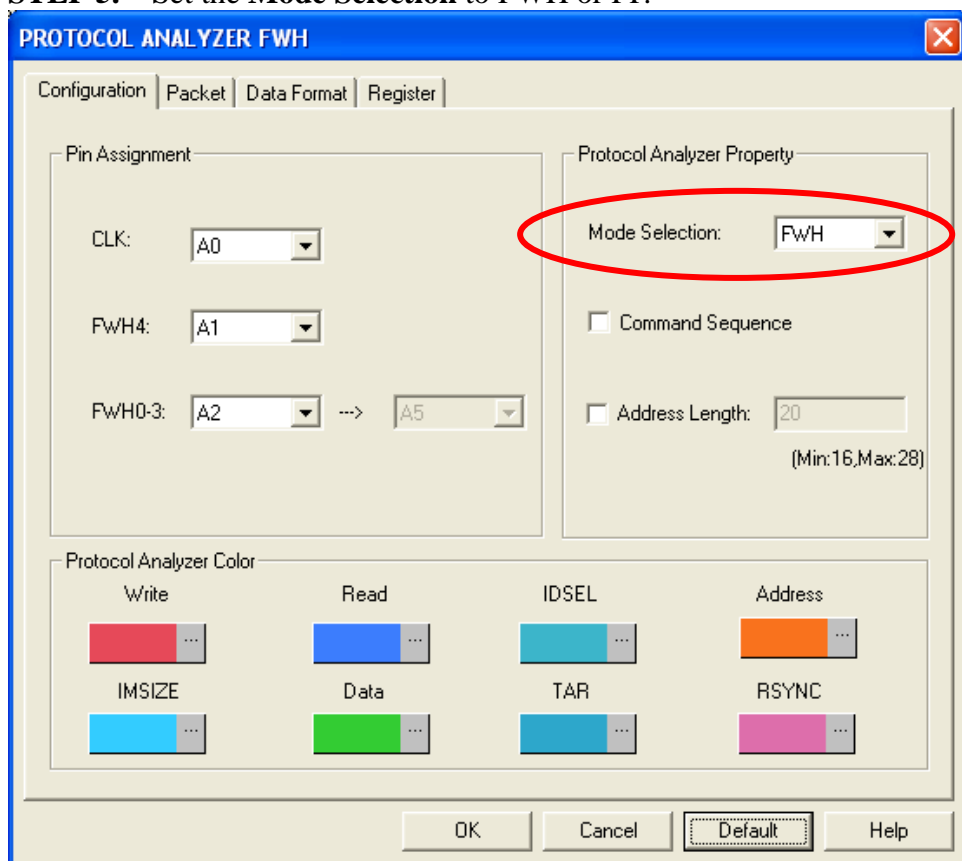
STEP 3. Select Protocol Analyzer, and select ZEROPLUS LA FWH MODULE V1.01.00(CN01). Then click Parameters Configuration to open the Configuration dialog box.



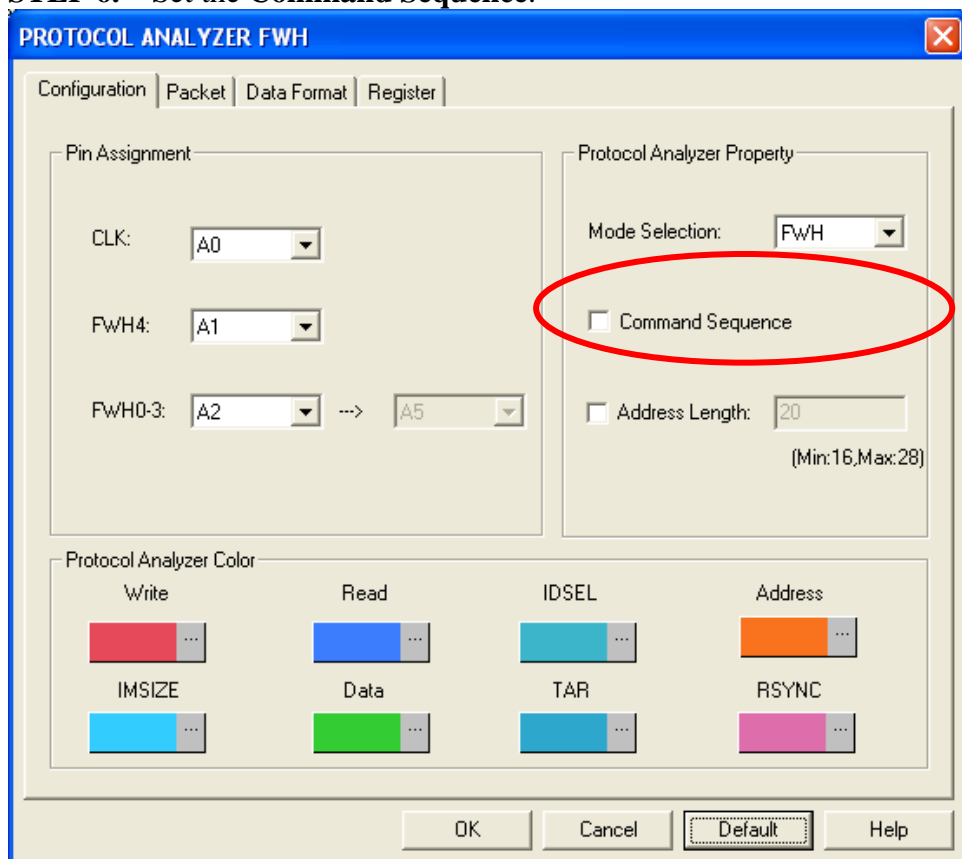
STEP 4. Set the channels. Take the FWH mode for an example, set the channels for CLK, FWH4 and FWH0-3.



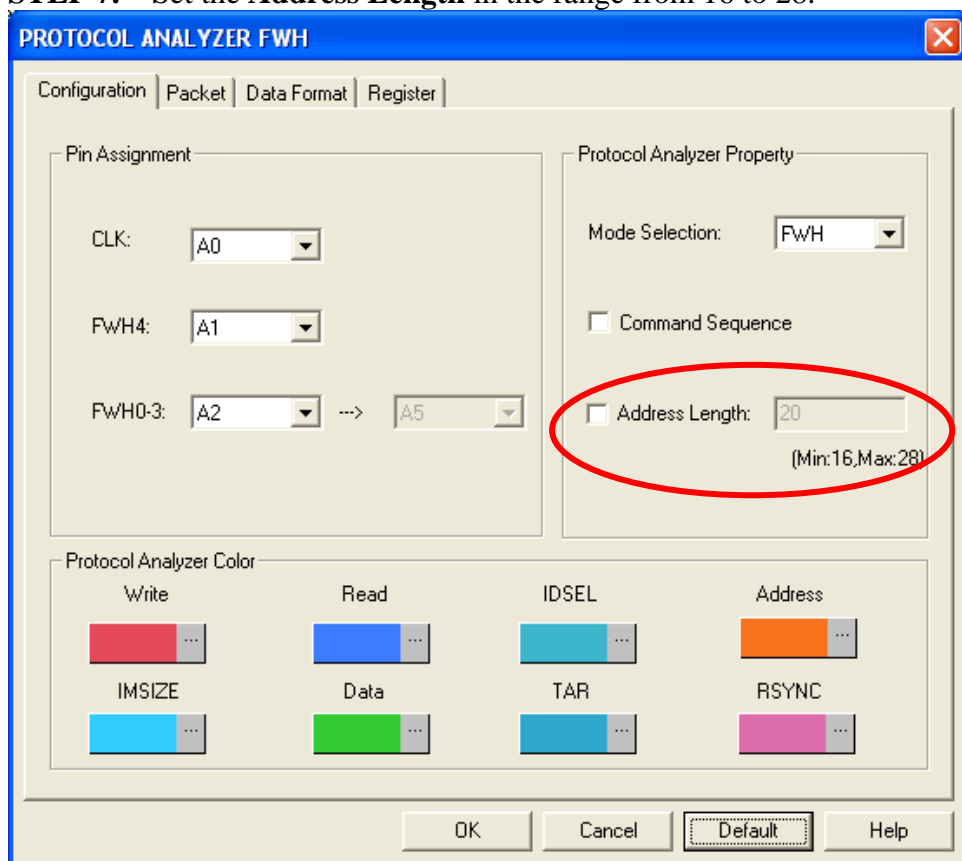
STEP 5. Set the **Mode Selection** to FWH or PP.



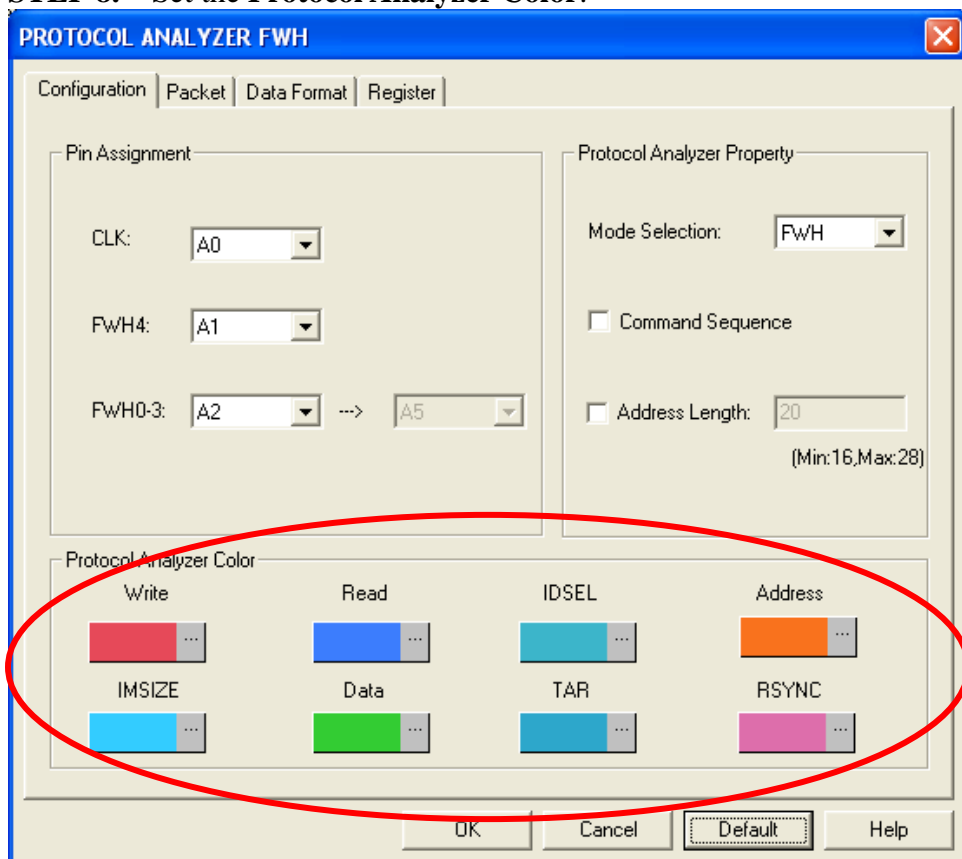
STEP 6. Set the **Command Sequence**.



STEP 7. Set the **Address Length** in the range from 16 to 28.



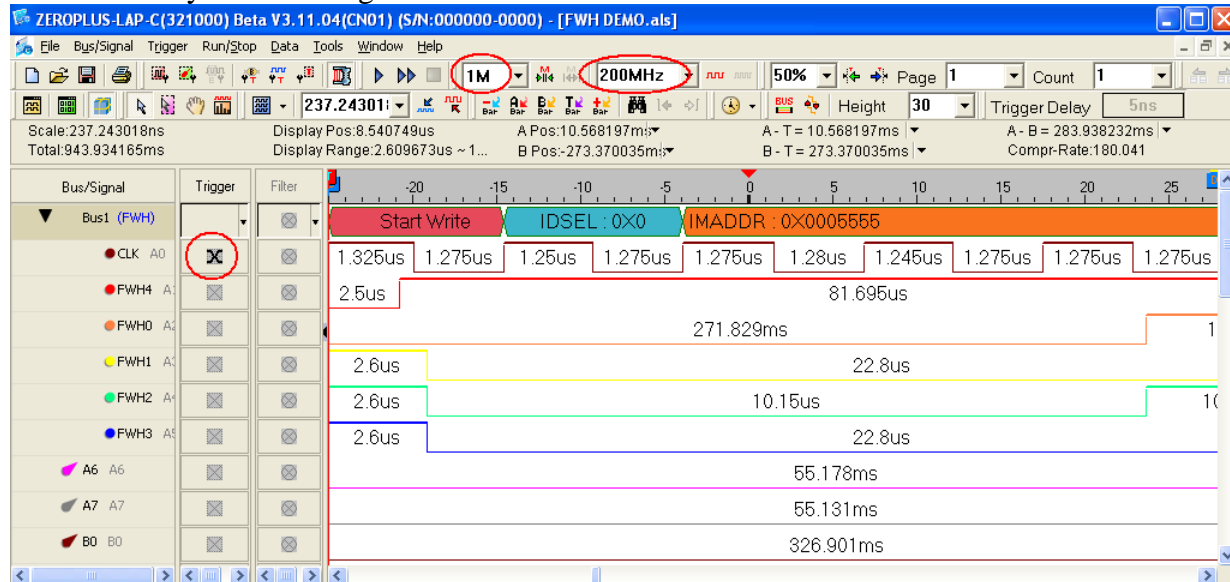
STEP 8. Set the **Protocol Analyzer Color**.





STEP 9. 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 1M; the sampling frequency is 200MHz (the sampling frequency should be more than six times higher than the signal to be tested).

Protocol Analyzer Decoding



Packet List

