



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

SPECIFICATION

MODEL: B11007-LAP-SWP-M

PART NO: _____

VERSION: V1.00

Approver		Check	Design
GM	PM		

Customer Confirm

*Please fax the file to Zeroplus Technology after signing.

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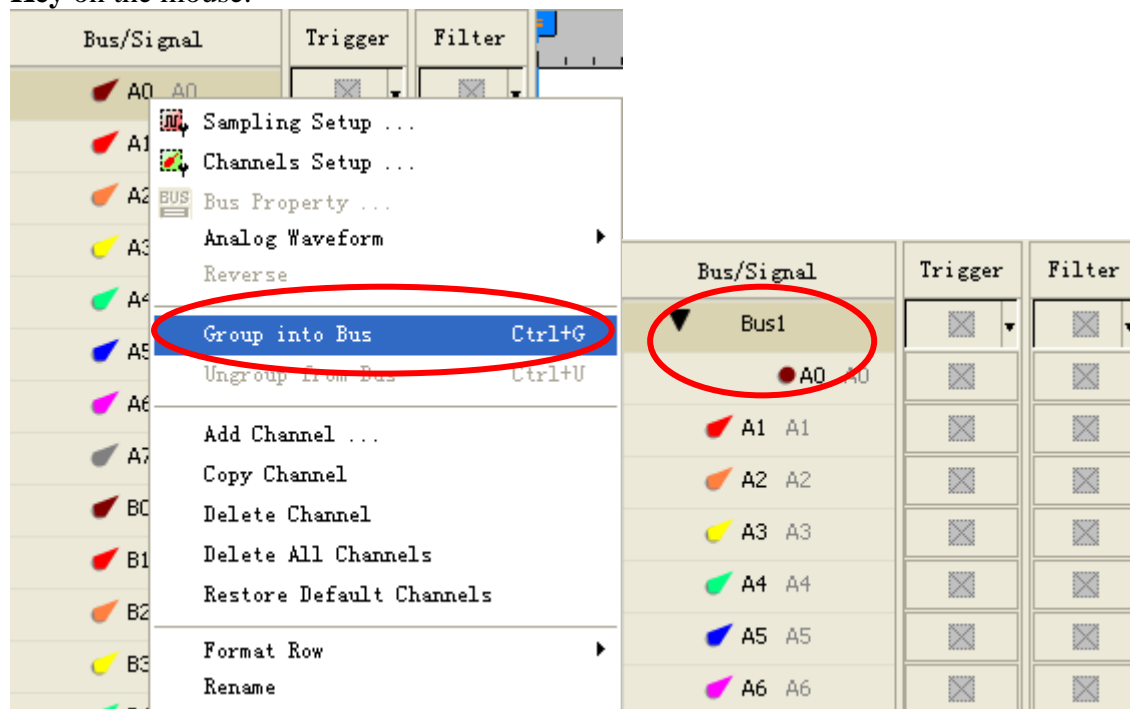
1. Software Registration

Please register the software as the following steps:

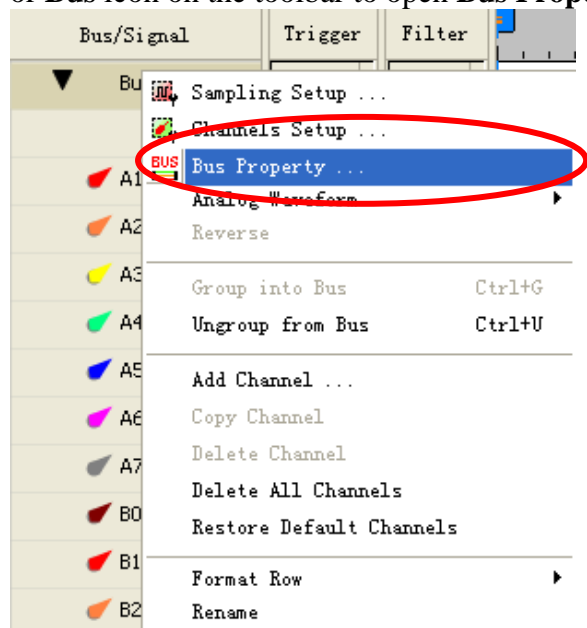
※ Remark1: The registration steps for all protocol analyzers are the same; you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.

※ 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.

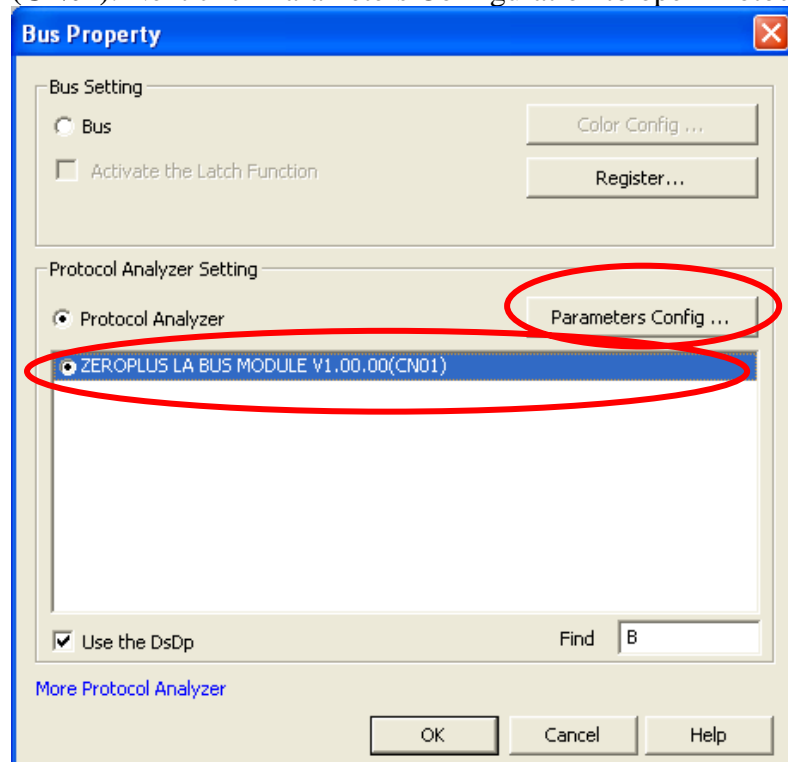
STEP 1. Open the Logic Analyzer and group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse.



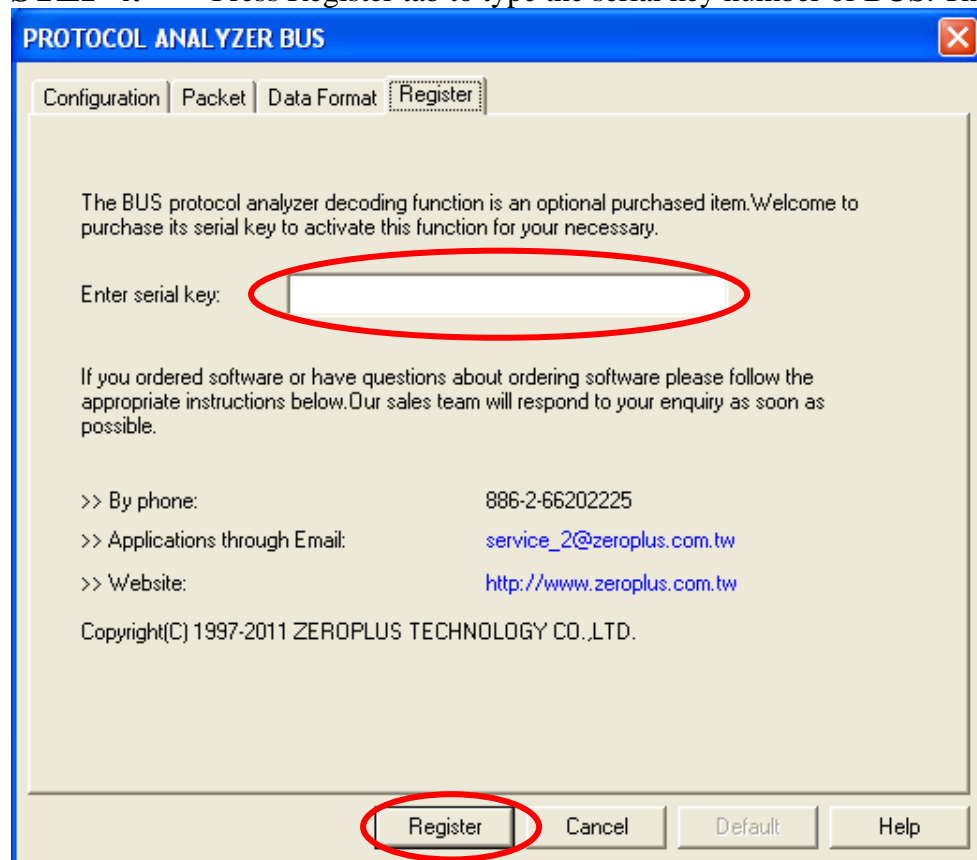
STEP 2. Select **Bus 1**, then press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.



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.

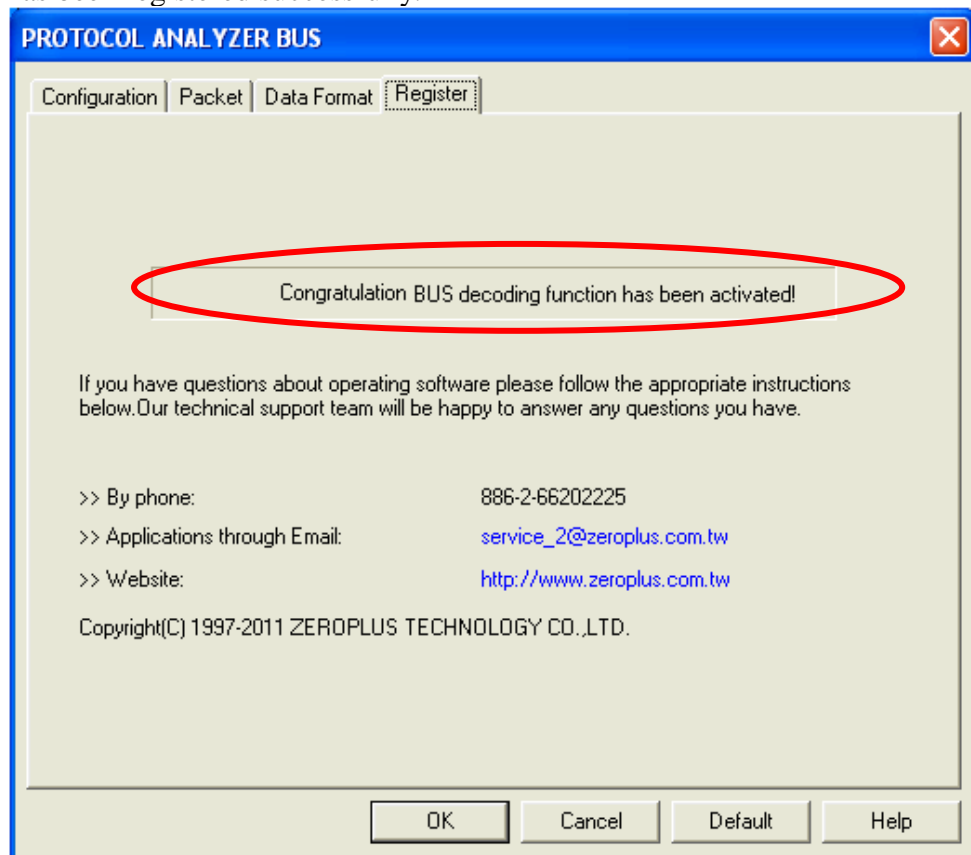


STEP 4. Press Register tab to type the serial key number of BUS. Then press Register.





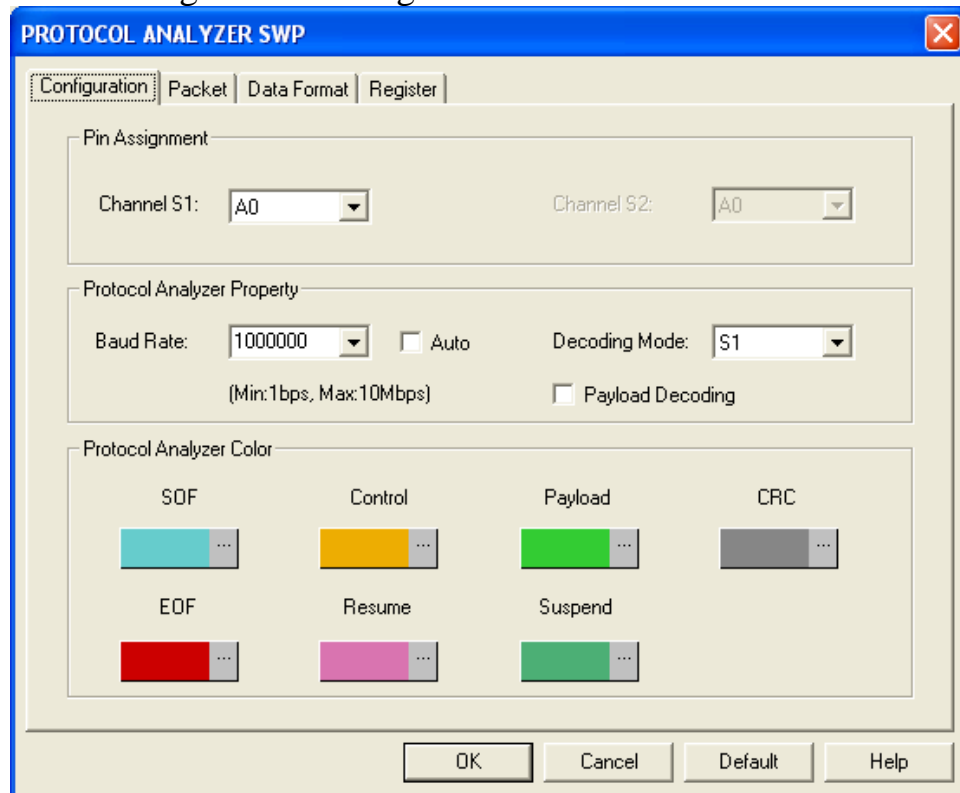
STEP 5. After pressing the Register button, following dialog box will appear, it denotes that the BUS has been registered successfully.



2. User Interface

In the configuration, please refer to below images to select options of setting **SWP** module.

SWP Configuration Dialog Box



Pin Assignment:

Signal channel in S1 decoding mode, double channels in S2 decoding mode.

Protocol Analyzer Property:

Baud Rate: Users can input the value from 1 bps to 10Mbps, they also can select from the pull-down menu, which has 10000, 20000, 40000, 50000, 80000, 100000, 125000, 200000, 250000, 400000, 500000, 666000, 800000, 1000000bps.

Auto: The operating steps are below.

1. Delete the first part and the last part before calculating.
2. If only one part of level left, the baud rate is 1.
3. Or, it will begin from the front and take 25 intervals(or all intervals if less than 25) between Rising Edge and Falling Edge. Then delete 1/5 of the longer part, the remaining parts are marked by N. The whole time length of N parts of intervals is marked by SUM(switching time: S).
4. Average Value=SUM/N. The baud rate is N/SUM.

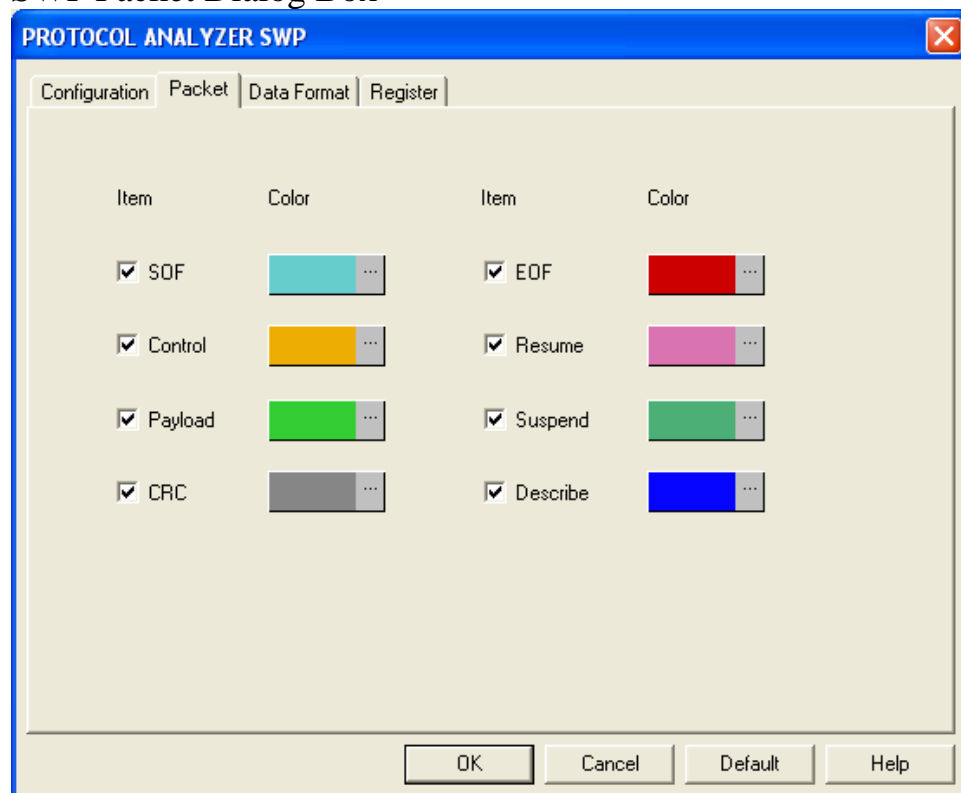
Decoding Mode: It includes S1 and S2. S2 decoding needs Channel S1 and Channel S2.

Payload Decoding: It controls the two-level decoding, and Payload can be decoded after activating the option.

Protocol Analyzer Color:

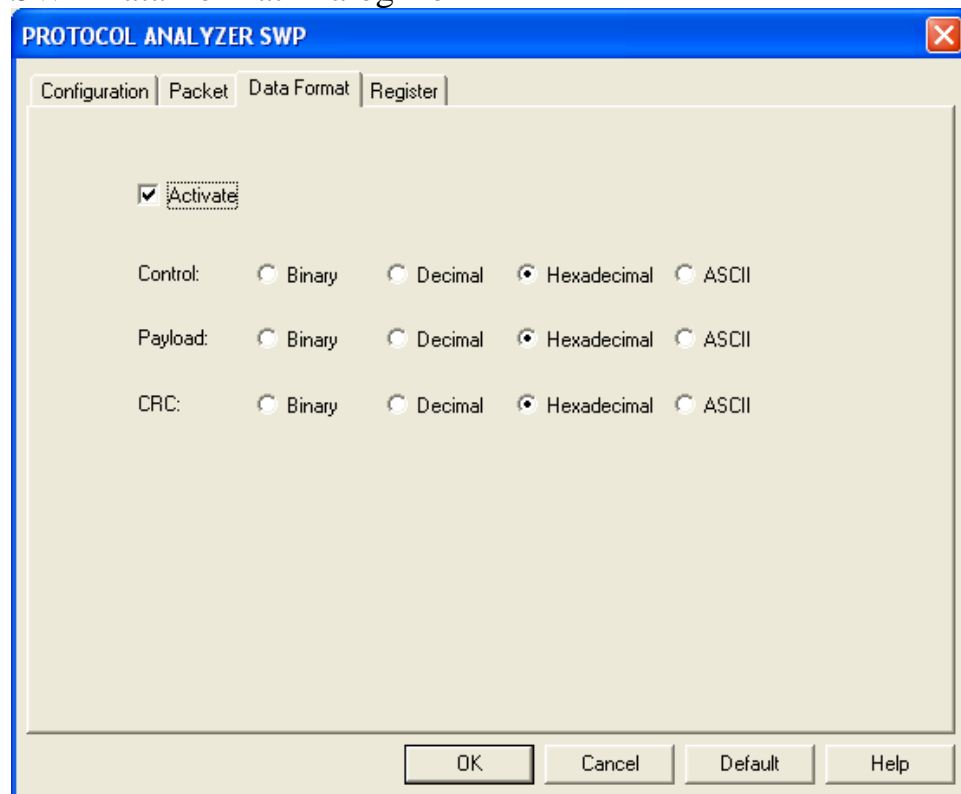
The protocol analyzer colors can be varied by users.

SWP Packet Dialog Box



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

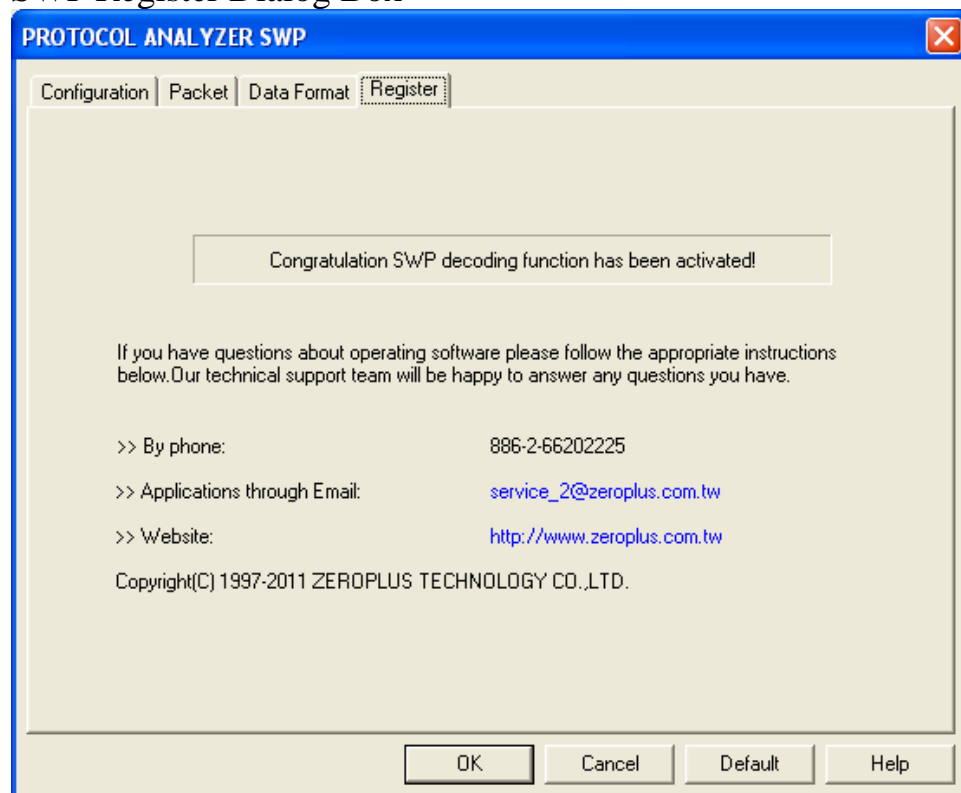
SWP Data Format Dialog Box



Users can set the Data Format of Control, Payload, CRC 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.



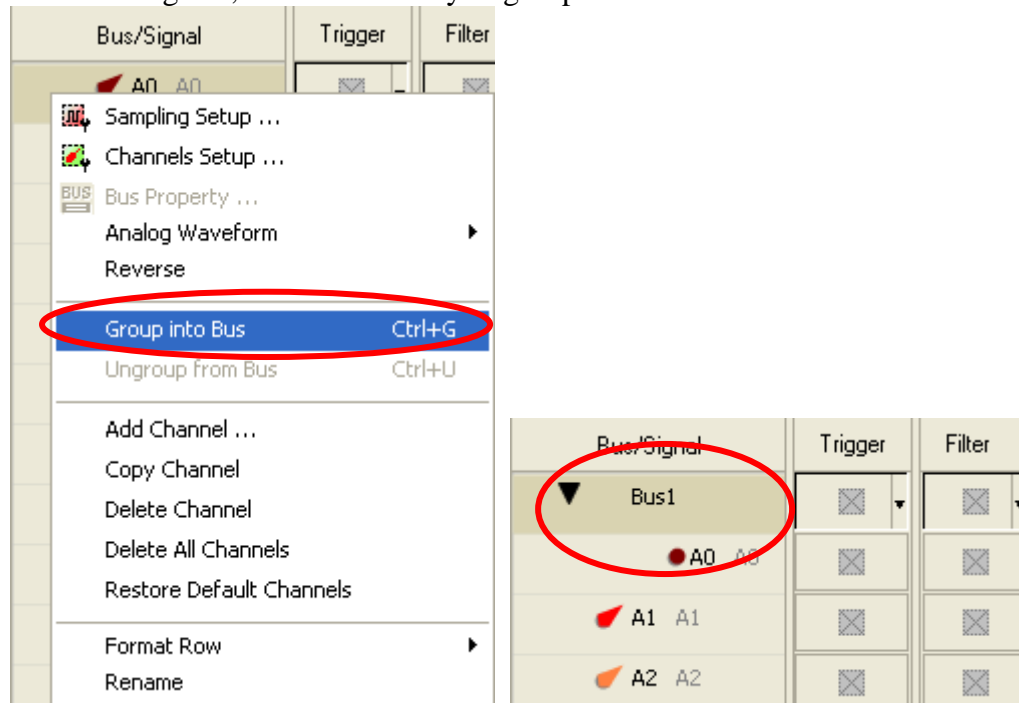
SWP Register Dialog Box



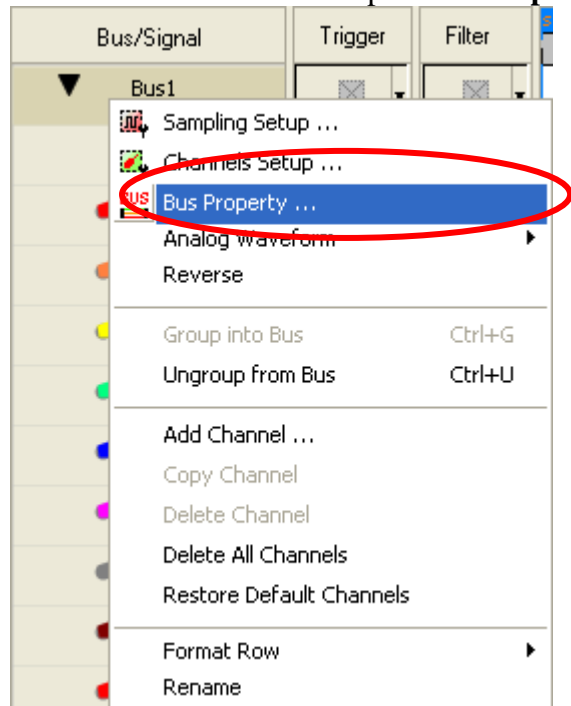
There is ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

3. Operating Instructions

STEP 1. Group A0 into **Bus1** by pressing the **Right Key** on the mouse. SWP needs one or more channels to decode signals, so it is necessary to group one or more channels into a Bus.

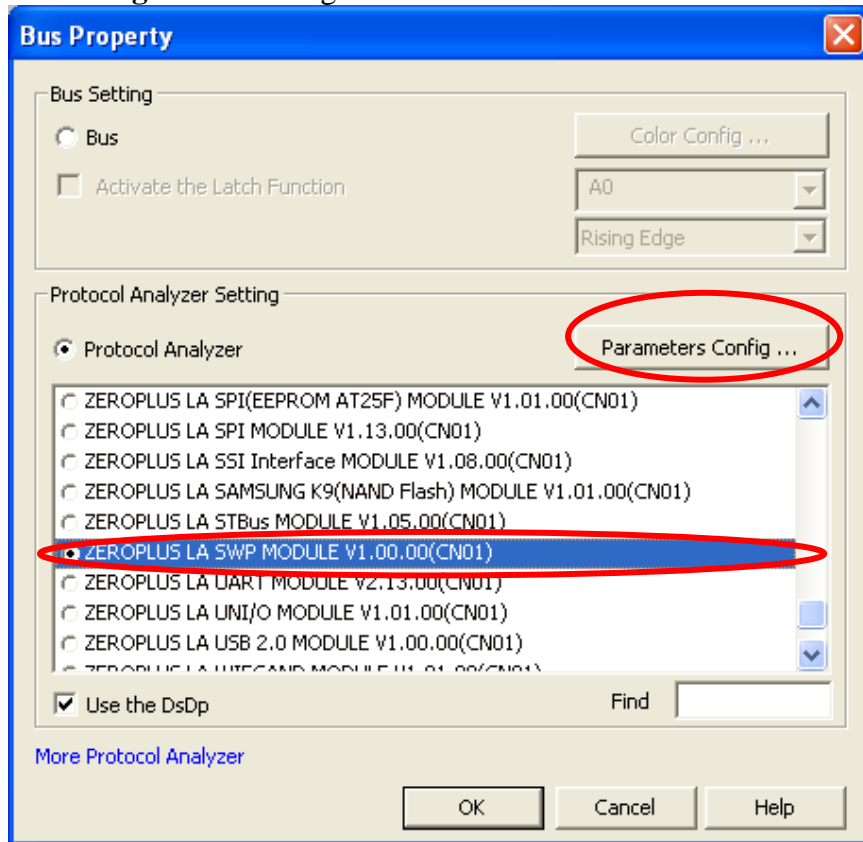


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

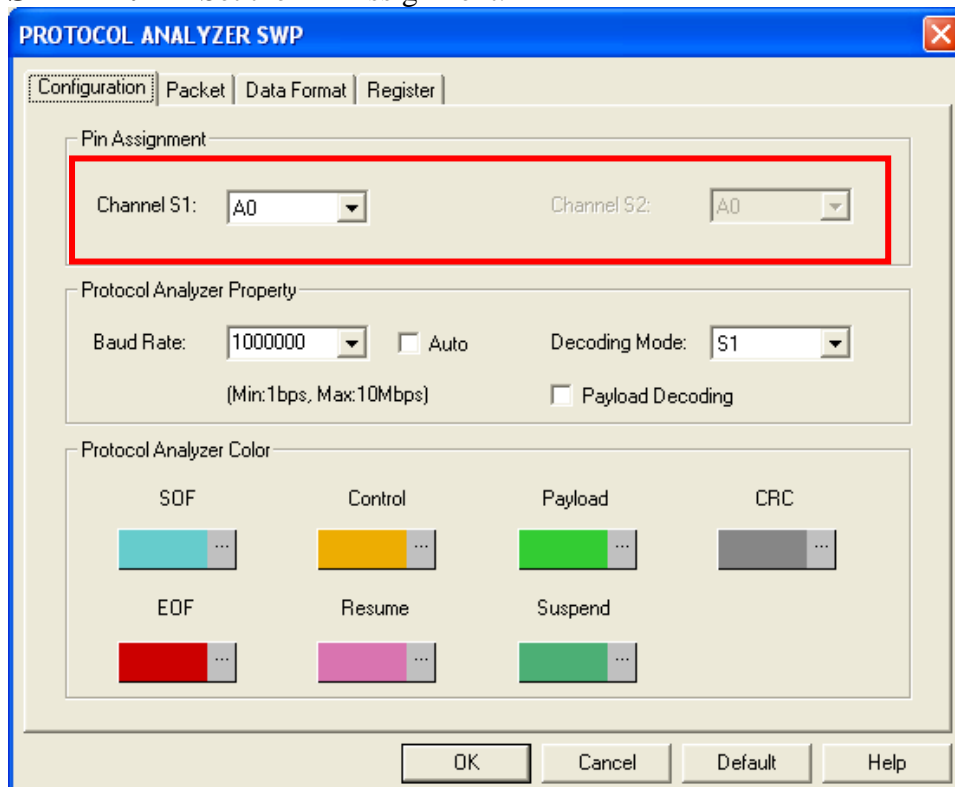




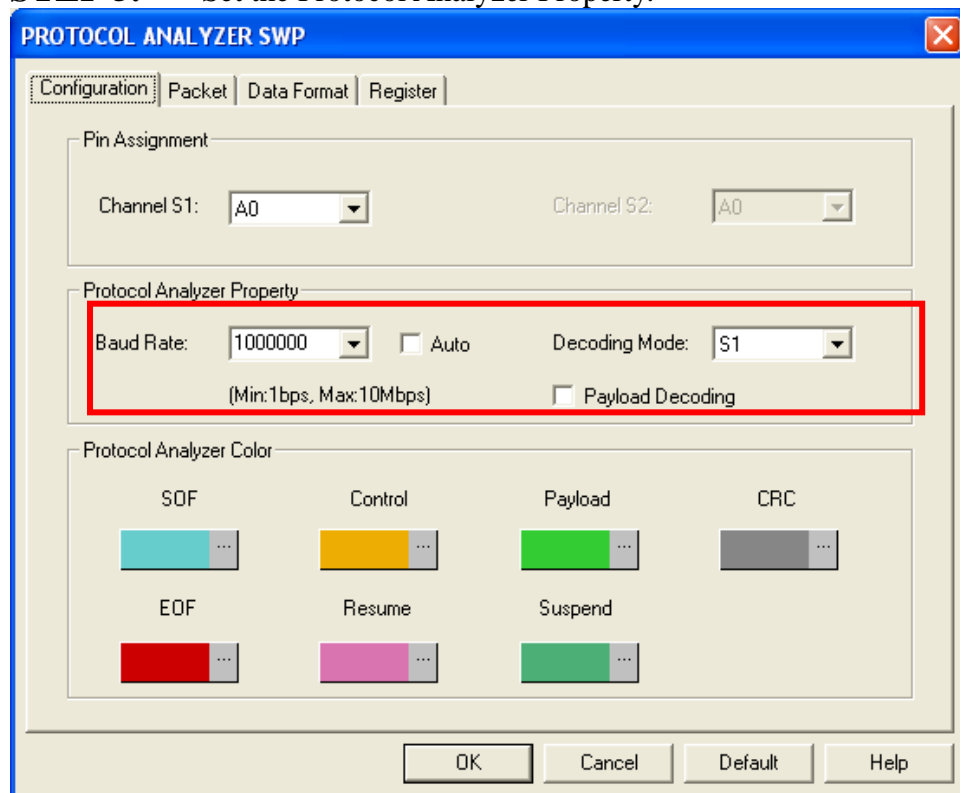
STEP 3. For Protocol Analyzer SWP Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA SWP MODULE V1.00.00(CN01)**. Next click **Parameters Configuration** to open the **Configuration** dialog box.



STEP 4. Set the Pin Assignment.



STEP 5. Set the Protocol Analyzer Property.



PROTOCOL ANALYZER SWP

Configuration | Packet | Data Format | Register

Pin Assignment

Channel S1: A0 Channel S2: A0

Protocol Analyzer Property

Baud Rate: 1000000 ☐ Auto Decoding Mode: S1

(Min:1bps, Max:10Mbps) ☐ Payload Decoding

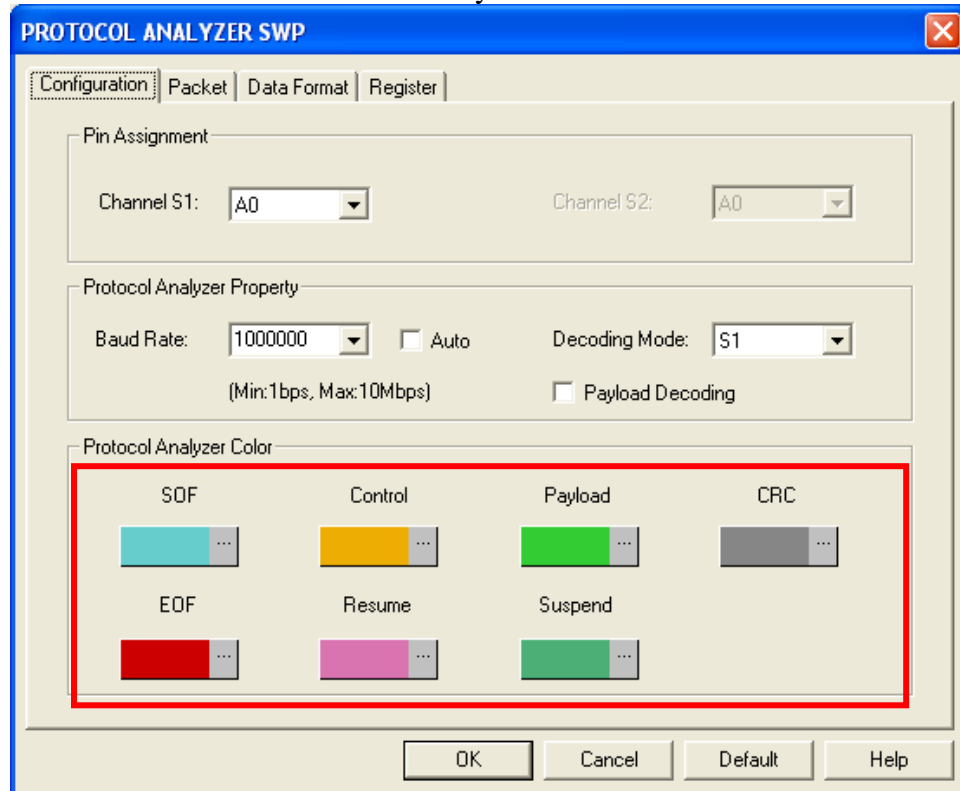
Protocol Analyzer Color

SOF Control Payload CRC

EOF Resume Suspend

OK Cancel Default Help

STEP 6. Set the Protocol Analyzer Color.



PROTOCOL ANALYZER SWP

Configuration | Packet | Data Format | Register

Pin Assignment

Channel S1: A0 Channel S2: A0

Protocol Analyzer Property

Baud Rate: 1000000 ☐ Auto Decoding Mode: S1

(Min:1bps, Max:10Mbps) ☐ Payload Decoding

Protocol Analyzer Color

SOF Control Payload CRC

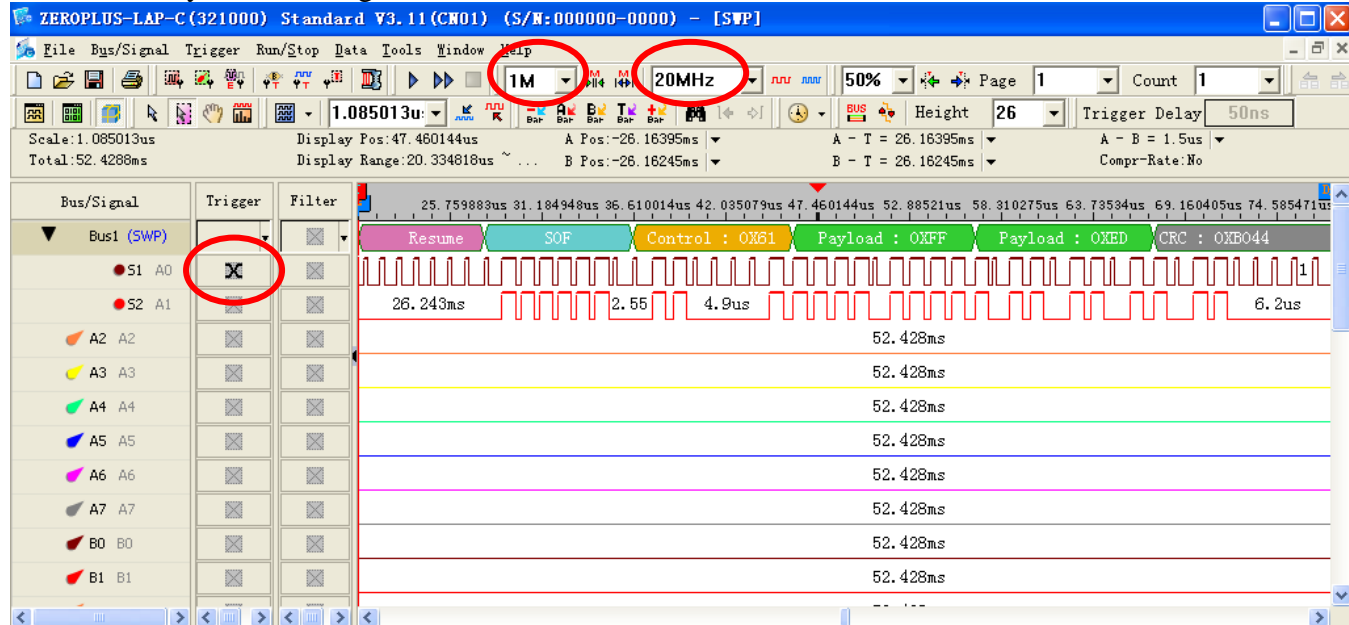
EOF Resume Suspend

OK Cancel Default Help



STEP 7. Following pictures show the completion of the protocol analyzer decoding and packet list. The trigger condition is set as Either Edge; the memory depth is 1M; the sampling frequency is 20MHz. (the sampling frequency should be more than 10 times higher than the signal to be tested).

Protocol Analyzer Decoding



Packet List

