



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

SPECIFICATION

MODEL: B11008 -BMS

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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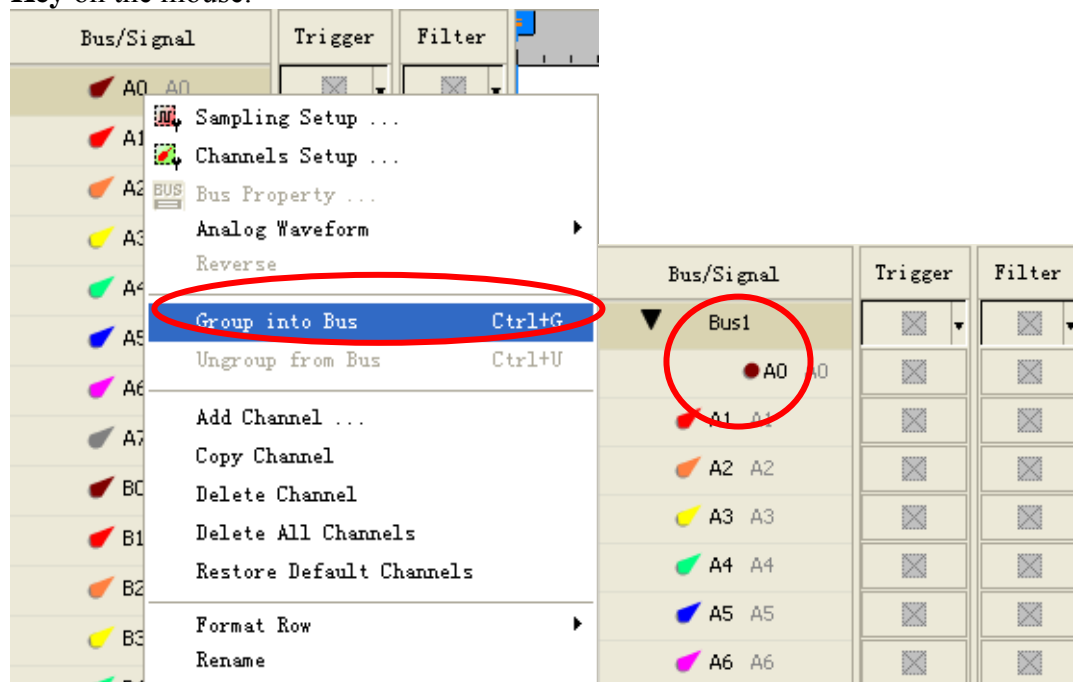
1. Software Register

Please register the software as the following steps:

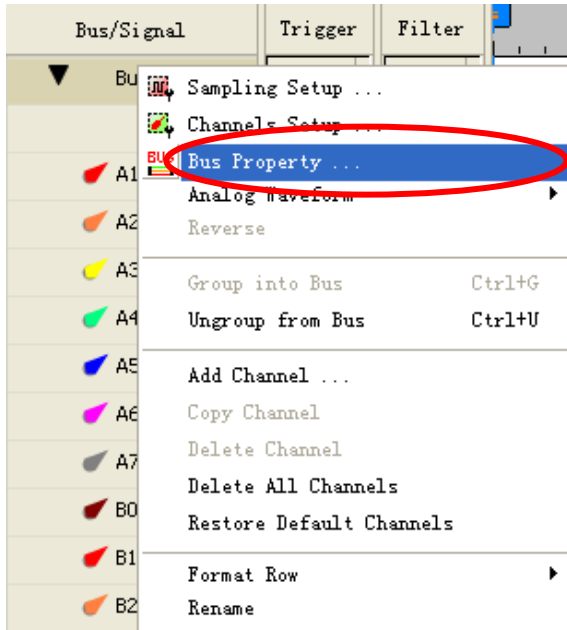
※ Remark1: The registration steps for all protocol analyzers are the same; you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.

※ 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.

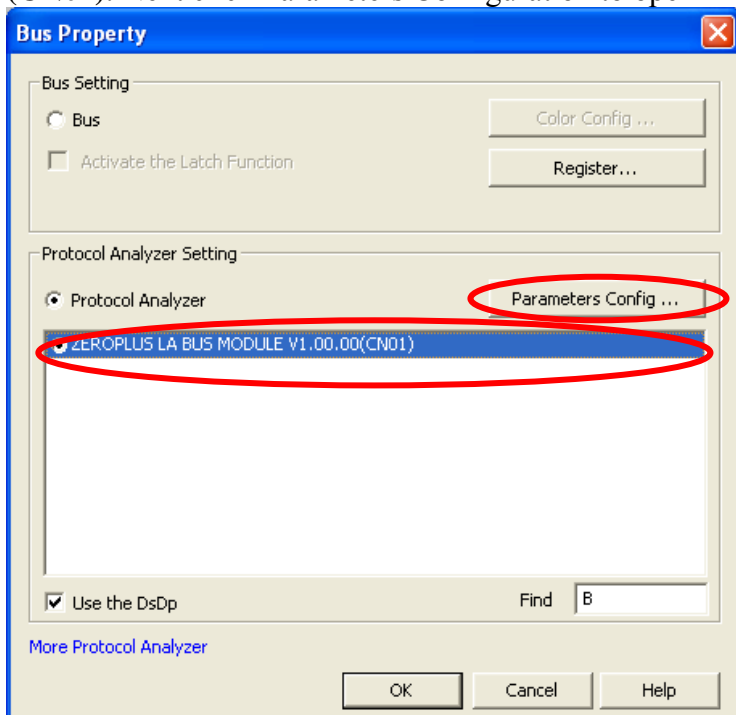
STEP 1. Open the Logic Analyzer and group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse.



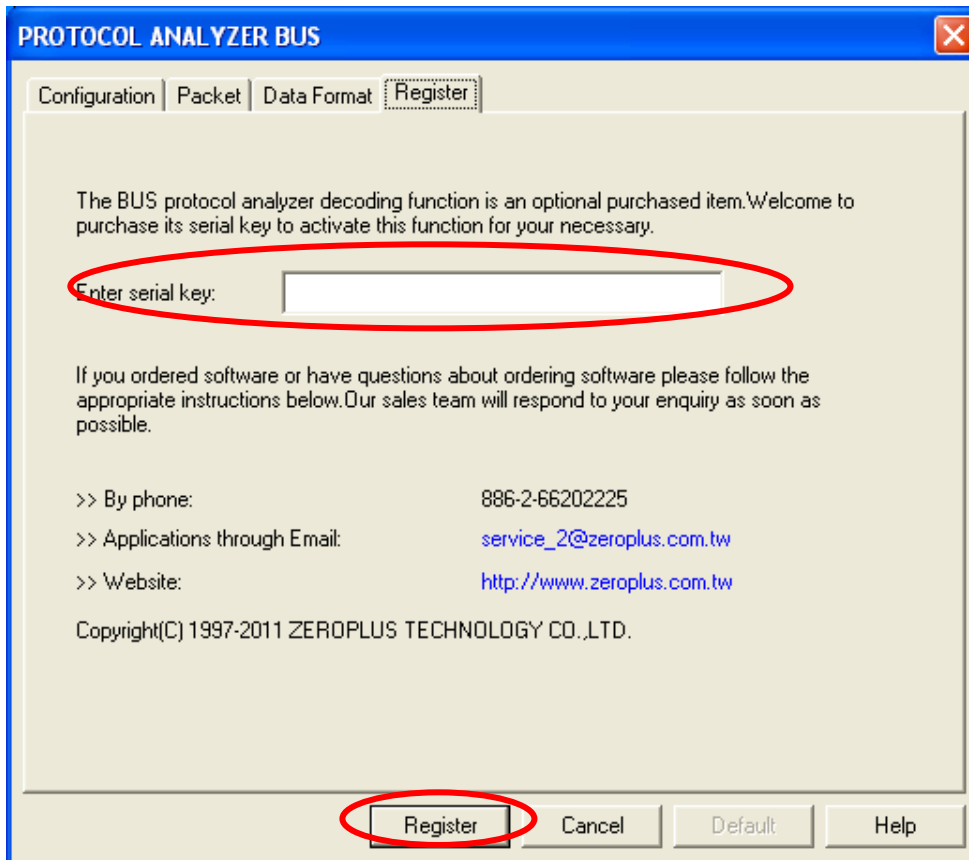
STEP 2. Select **Bus 1**, then press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.



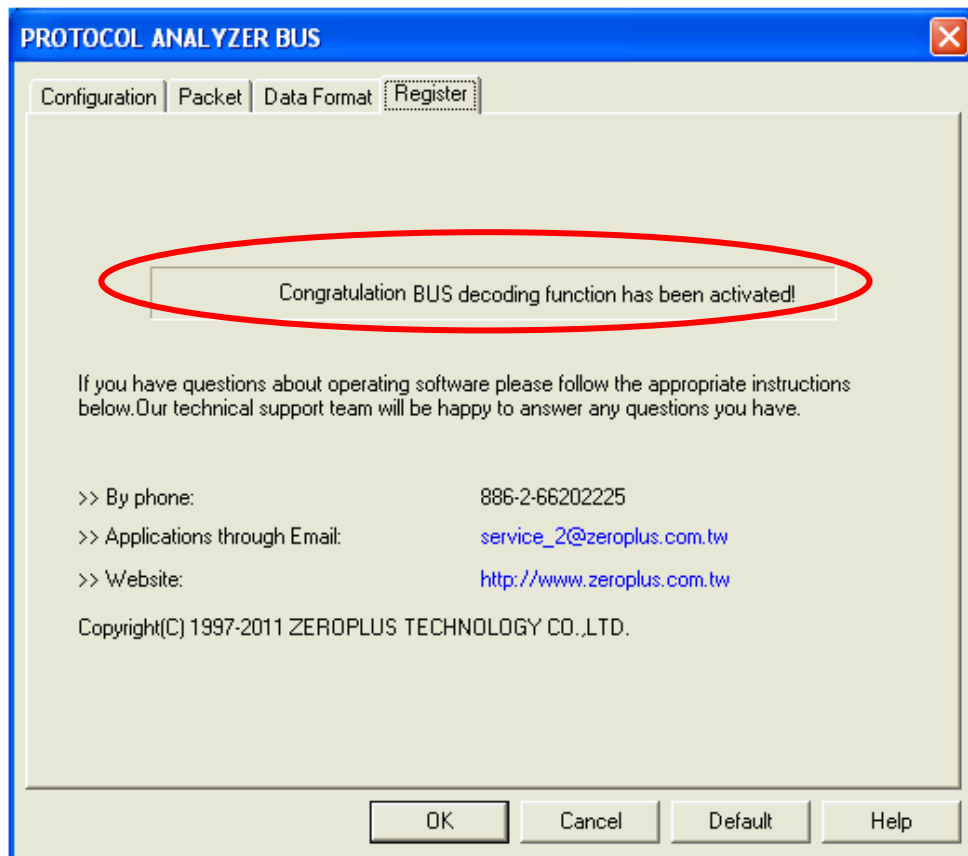
STEP 3. Select the Protocol Analyzer, and then choose **ZEROPLUS LA BUS MODULE V1.00.00 (CN01)**. Next click Parameters Configuration to open Protocol Analyzer Bus dialog box.



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



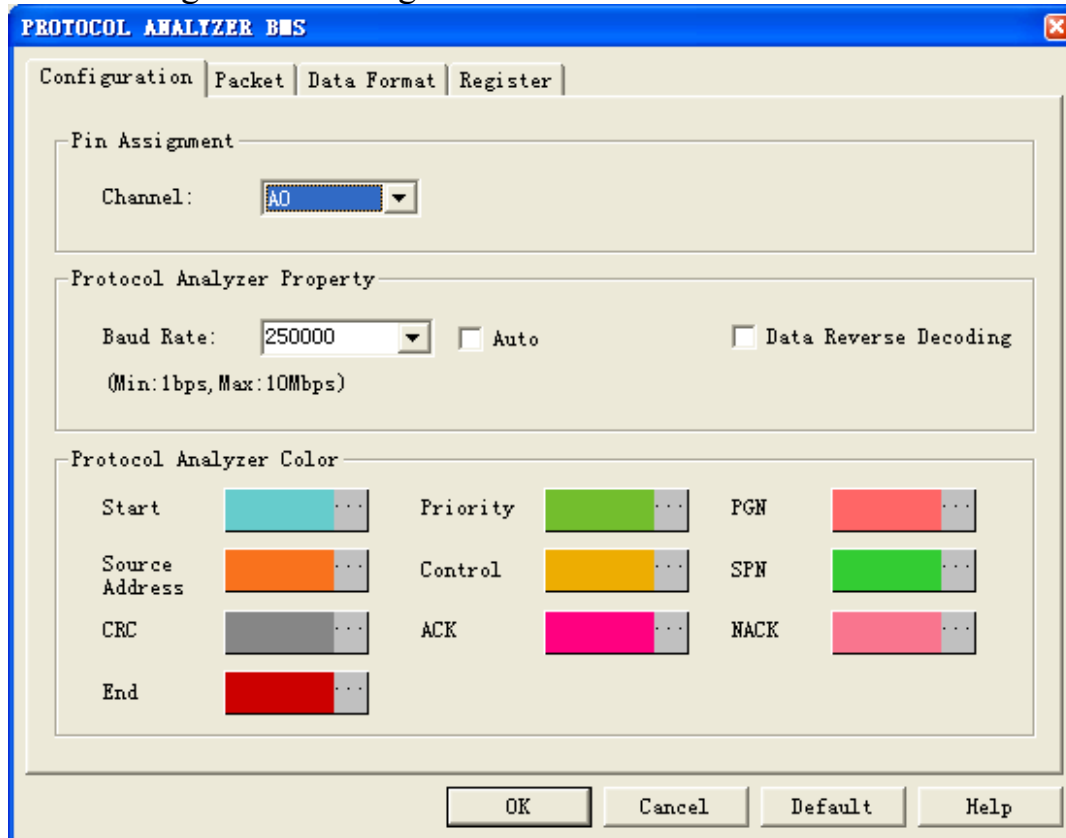
STEP 5. After pressing the Register button, following dialog box will appear, it denotes that the BUS has been registered successfully.



2. User Interface

Please refer to the below images to select options of setting **BMS** module.

BMS Configuration Dialog Box



Pin Assignment:

Channel: It uses one channel based on CAN 2.0B to decode.

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.

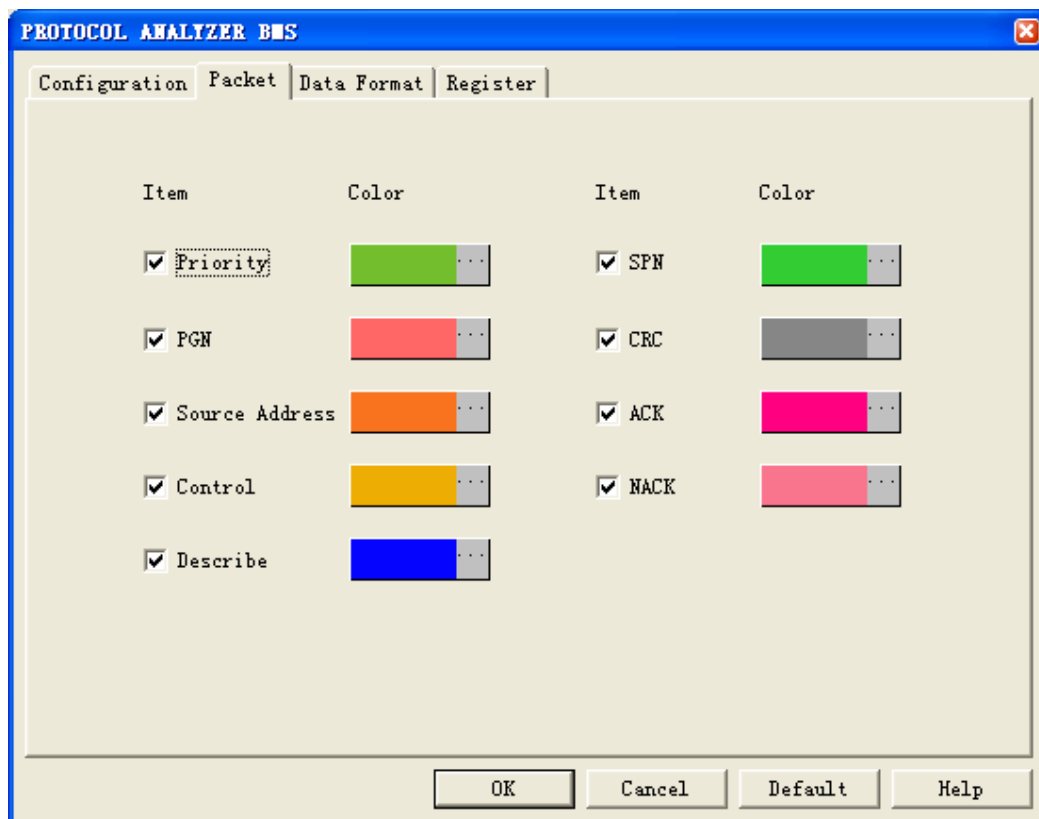
Auto: The operating steps are as below.

1. Delete the first part and the last part before calculating.
2. Find the shortest Tmin and the number of $(1 \sim 1.5) \times T_{min}$ from start to end to mark with N1. If the $N1 \leq 0$, the baud rate is 1. It will find 20 segments, the total is N1 and the average is $T/N1$. If there is not enough 20, it will record the factual number, the average is also $T/N1$.
3. The baud rate is $1/(T/N1) = N1/T$.

Data Reverse Decoding: All lines should be reversed, which means it will decode the Low as High and the High as Low in the decoding.

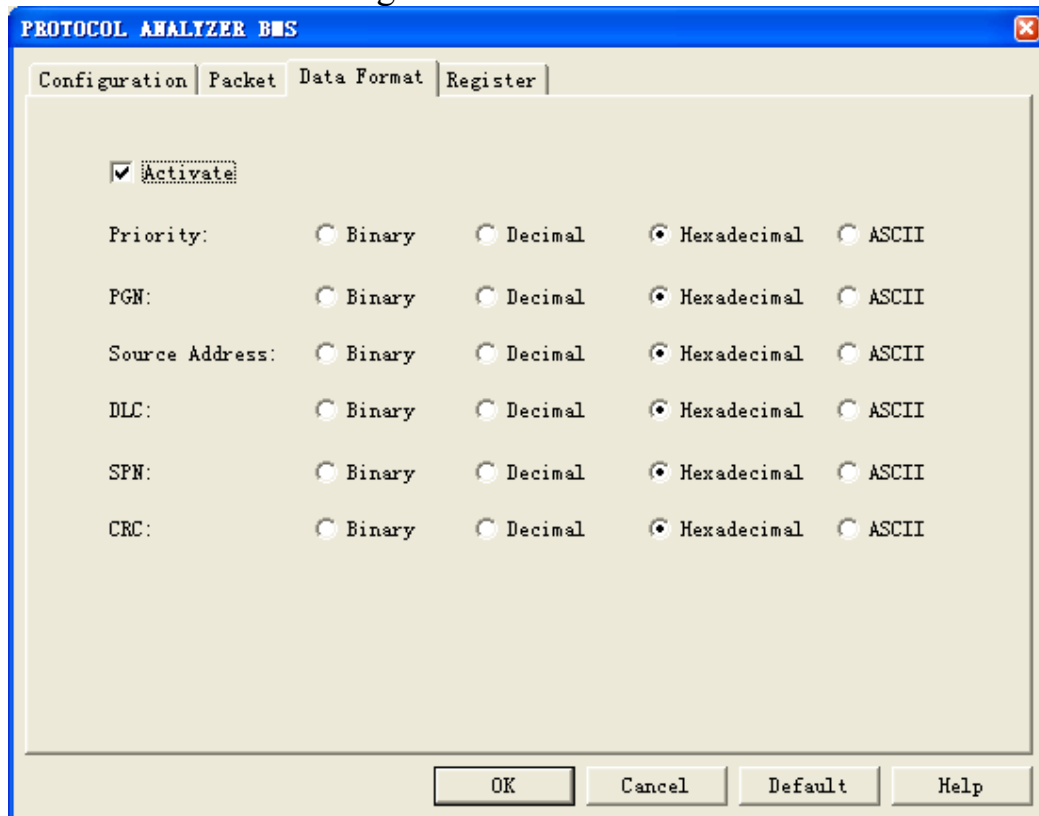
Protocol Analyzer Color: The **Protocol Analyzer Color** can be varied by users.

BMS Packet Dialog Box



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

BMS Data Format Dialog Box

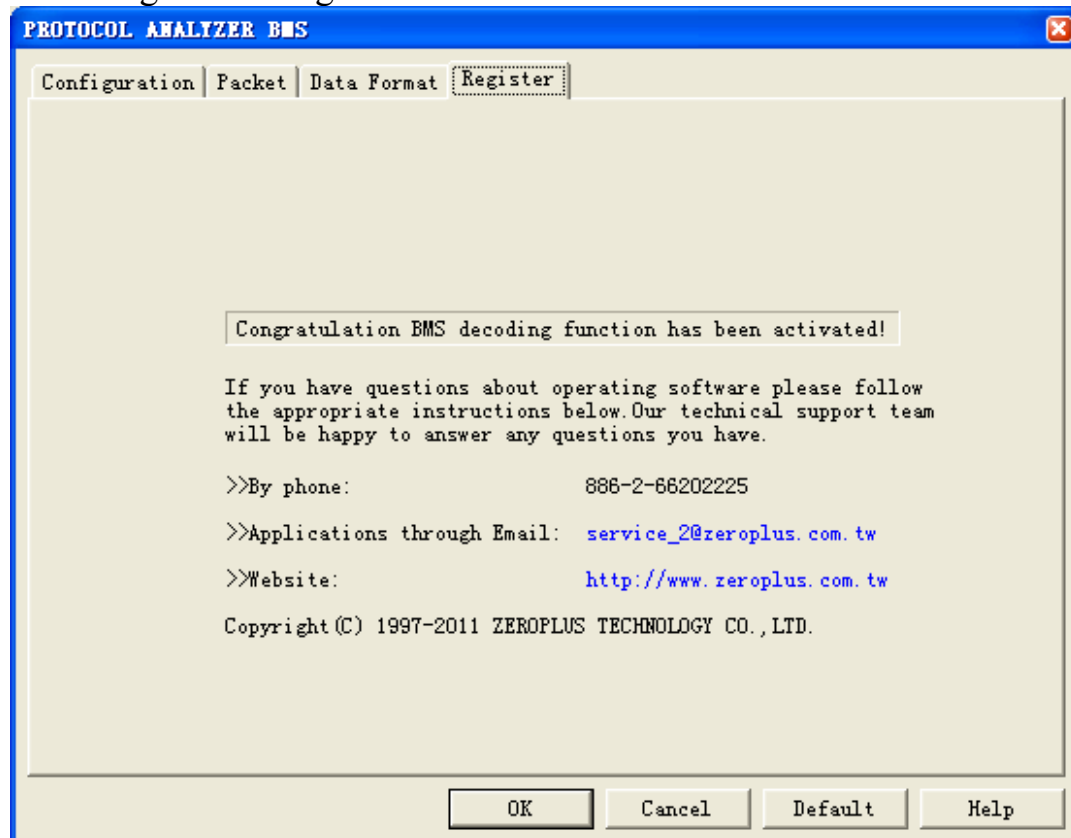


Users can set the Data Format of the Priority, PGN, Source Address, DLC, SPN, CRC as their requirements.



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.

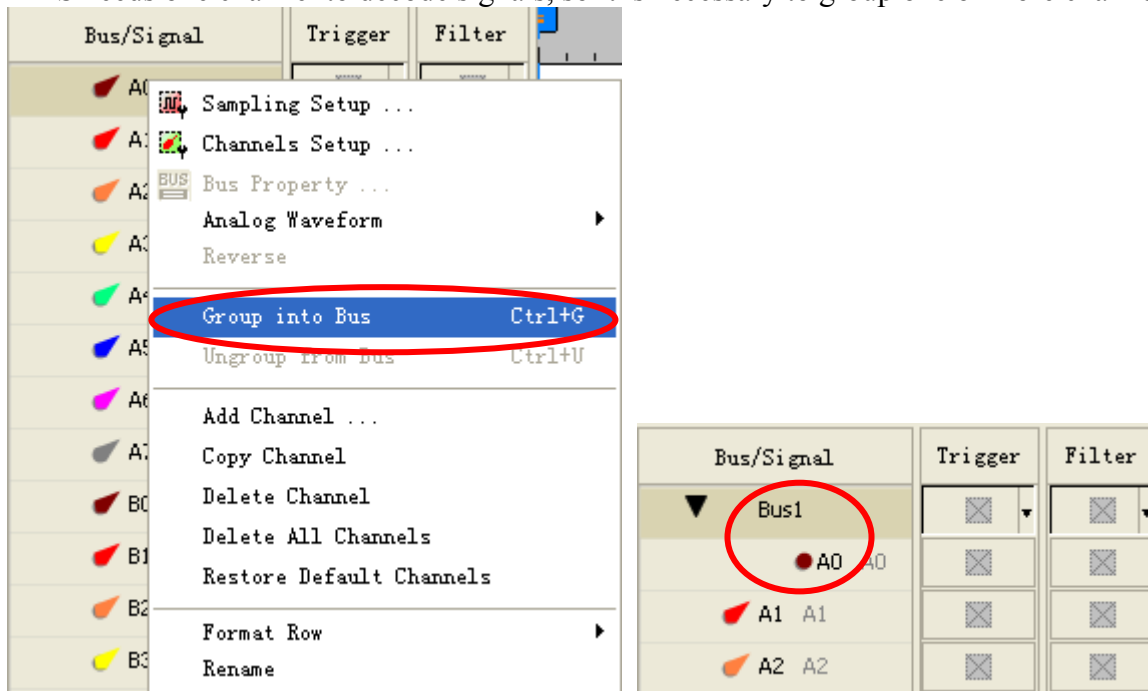
BMS Register Dialog Box



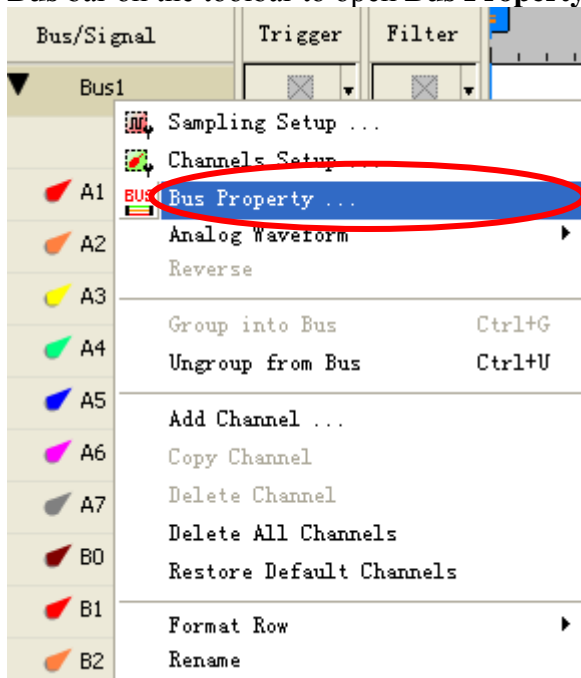
There is written ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

3. Operating Instructions

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



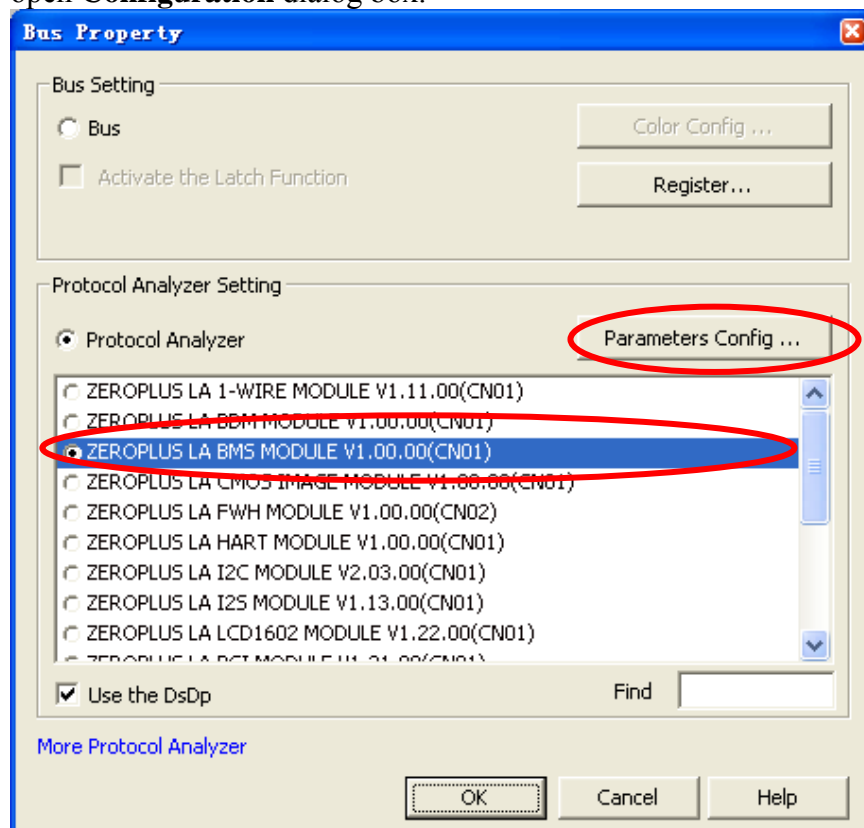
STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** bar on the toolbar to open **Bus Property** dialog box.



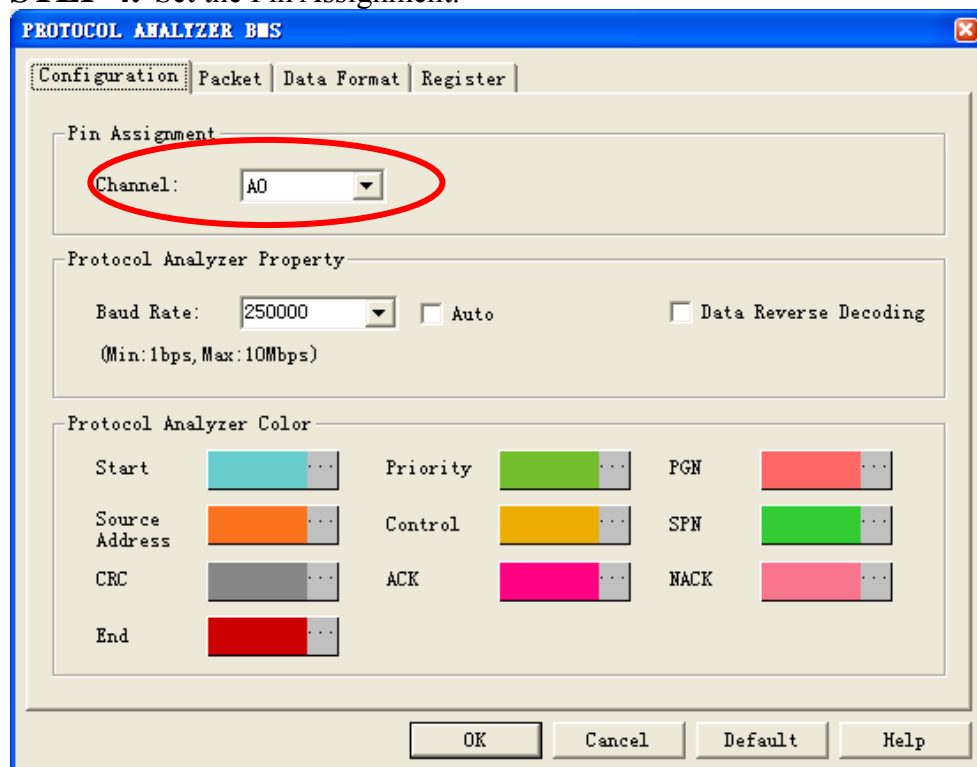
STEP 3. For Protocol Analyzer BMS Parameters Configuration, select Protocol Analyzer, and then



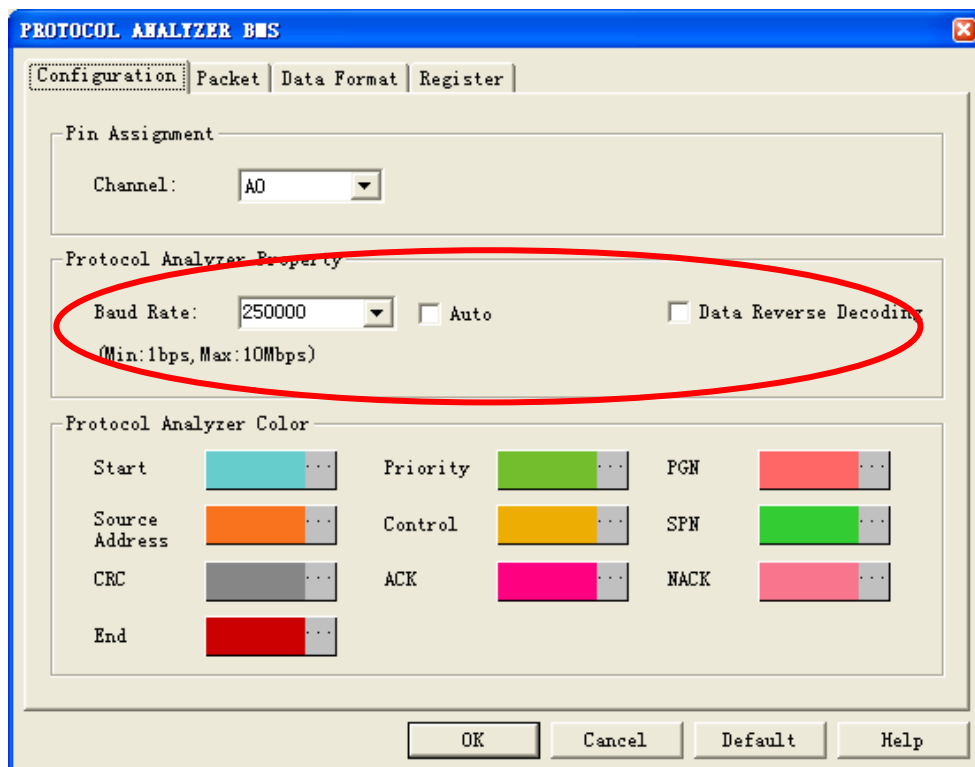
choose **ZEROPLUS LA BMS MODULE V1.00.00 (CN01)**. Next click **Parameters Configuration** to open **Configuration** dialog box.



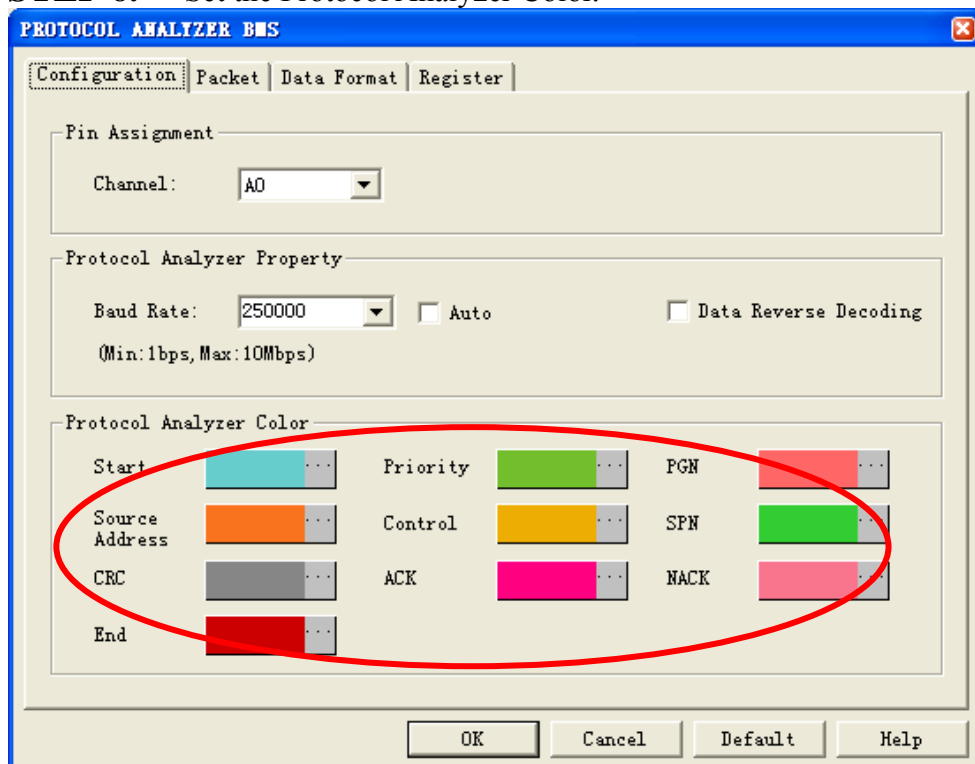
STEP 4. Set the Pin Assignment.



STEP 5. Set the Protocol Analyzer Property.



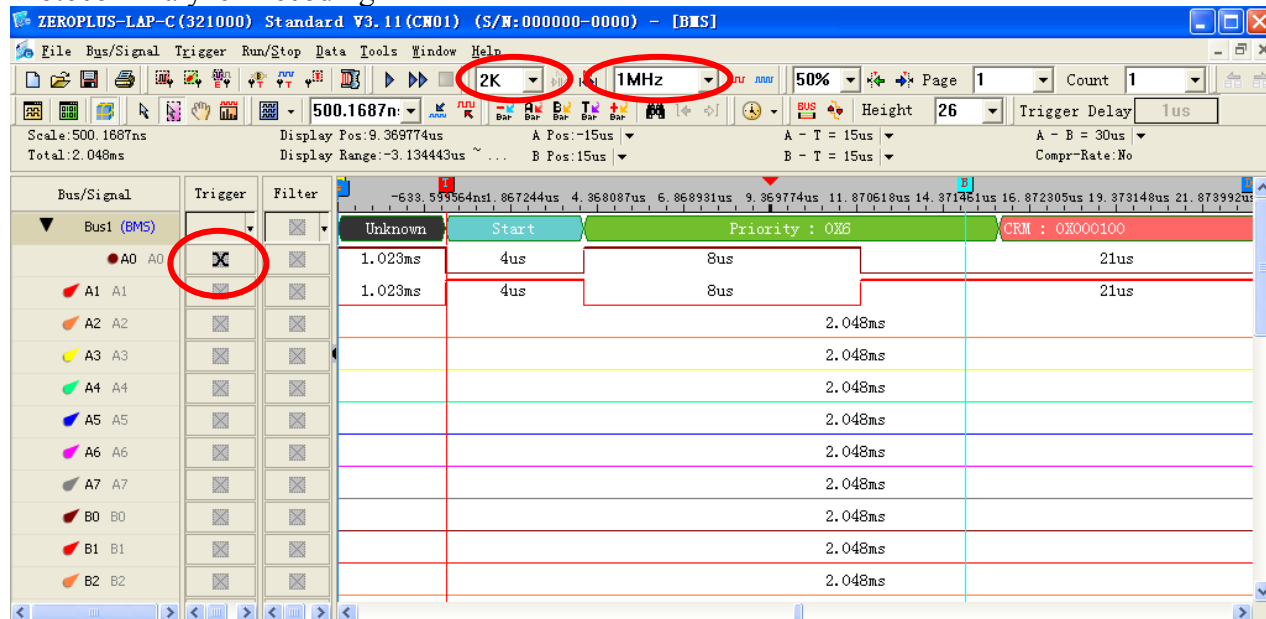
STEP 6. Set the Protocol Analyzer Color.



STEP 7. Following pictures show the completion of the protocol analyzer decoding and the packet list.

The trigger condition is Either Edge; the memory depth is 2K; the sampling frequency is 1MHz (the sampling frequency should be more than 4 times higher than the signal to be tested).

Protocol Analyzer Decoding



Packet List

