



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

# SPECIFICATION

**MODEL: B08041-LAP-MODIFIED MILLER-M**

**PART NO :** \_\_\_\_\_

**VERSION :** V1.02

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 Resgister .....	3
2	User Interface .....	6
3	Operating Instructions .....	9



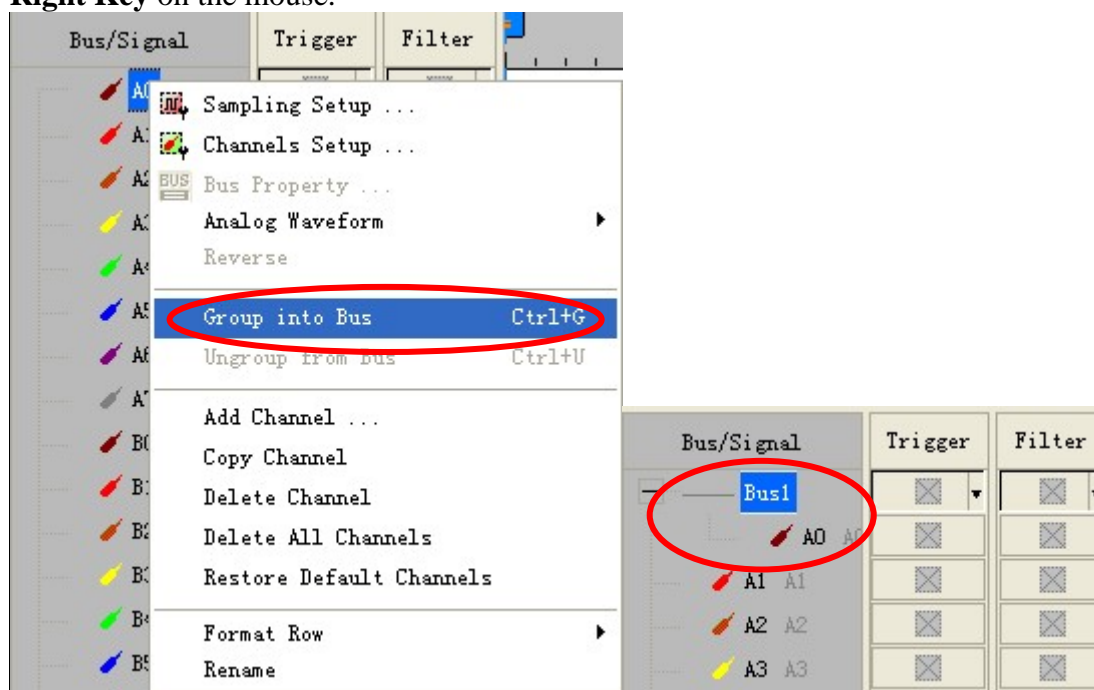
## 1 Software Register

Please register the software as the following steps:

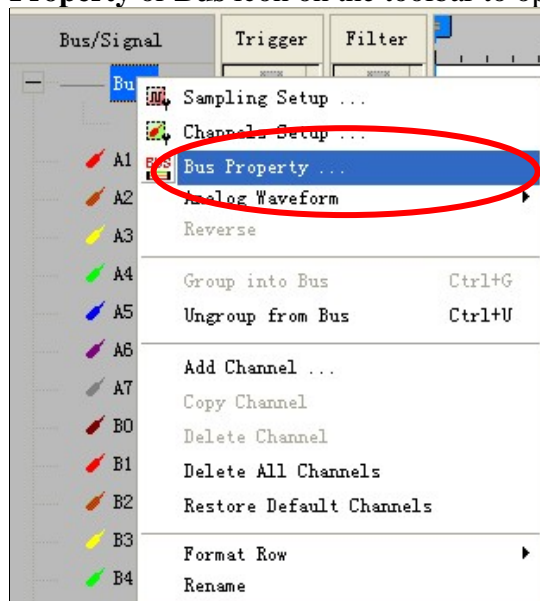
※ Remark1: The registration steps for all protocol analyzers are the same, you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.

※ 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.

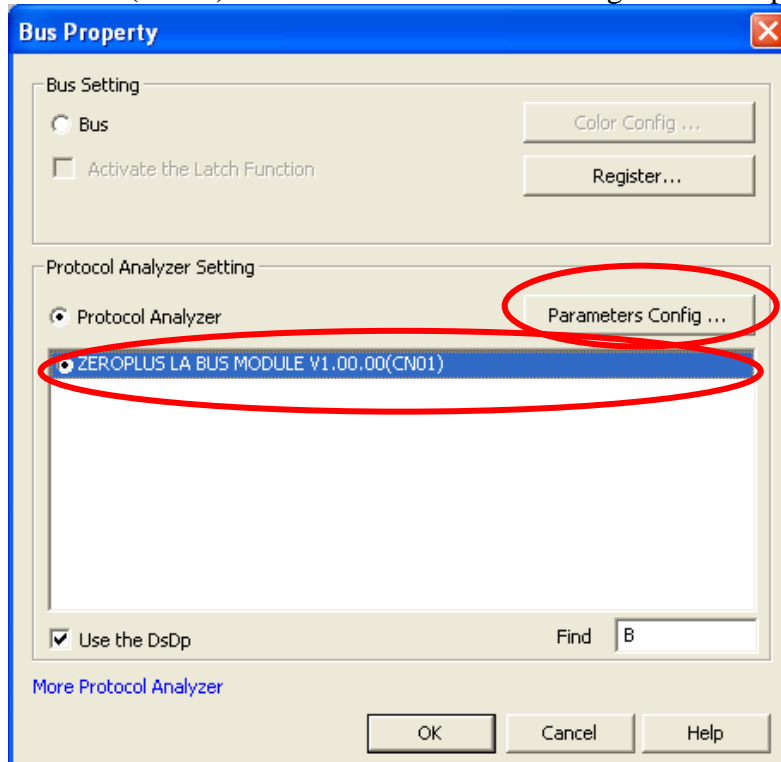


**STEP 2.** Select **Bus 1**, then press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

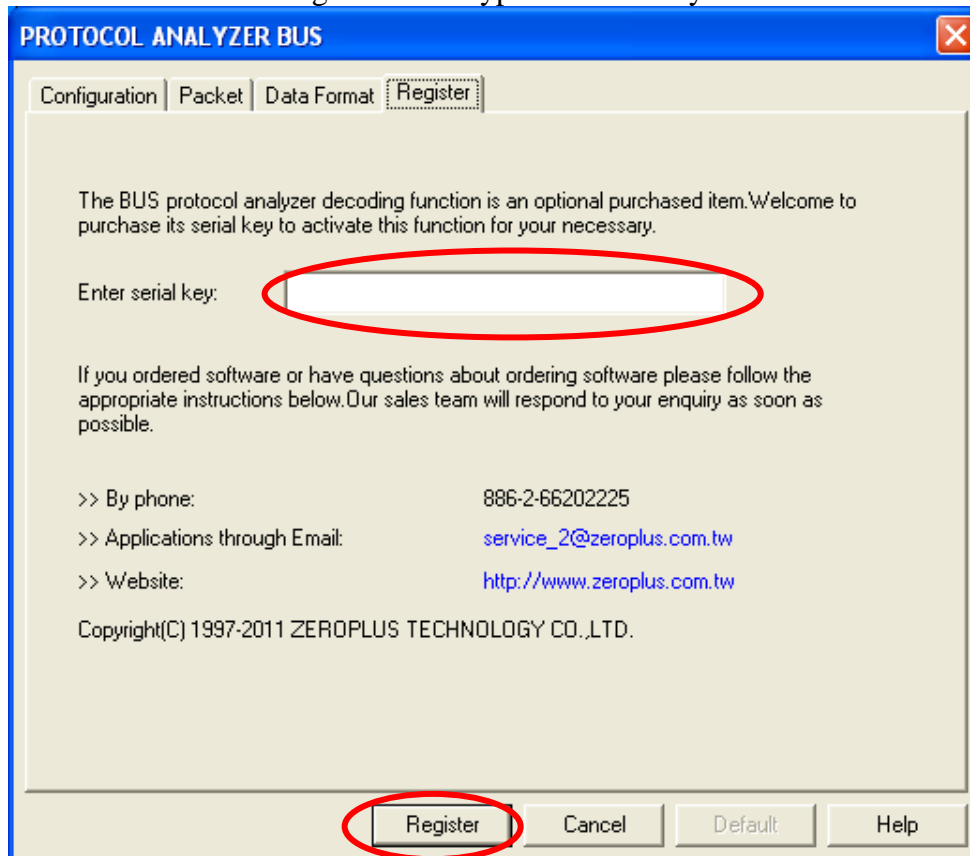




**STEP 3.** Select the Protocol Analyzer, and then choose **ZEROPLUS LA BUS MODULE V1.00.00(CN01)**. Next click Parameters Configuration to open Protocol Analyzer Bus dialog box.

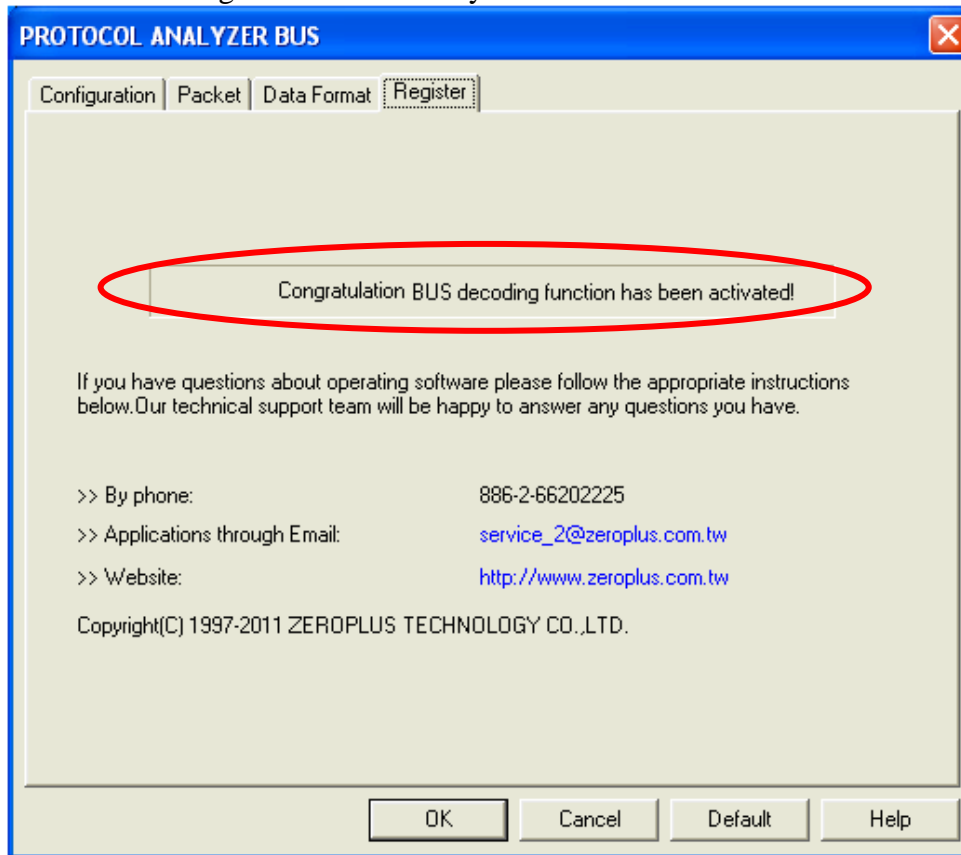


**STEP 4.** Press Register tab to type the serial key number of BUS. Then press Register.





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

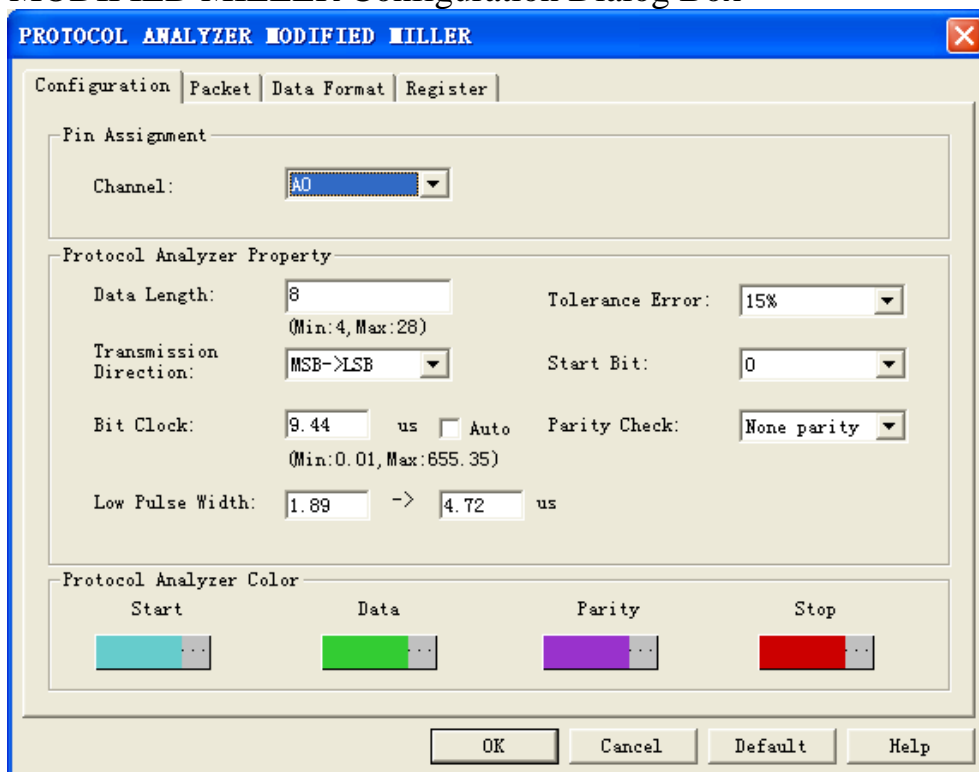




## 2 User Interface

In the configuration dialog box, please refer to the below images to select options of setting **MODIFIED MILLER MODULE**.

### MODIFIED MILLER Configuration Dialog Box



**Pin Assignment:** Users can select the decoding channel by themselves.

#### Protocol Analyzer Property:

**Data Length:** Users can set the bit of the data which is between 4 and 28.

**Transmission Direction:** User can set the direction as MSB->LSB or LSB->MSB, the default is MSB->LSB.

**Bit Clock:** Users can input the value of the Bit Clock which is between 0.01 and 655.35us by themselves.

**Low Pulse Width:** It can be set between 0.00 and 65535.00us; it allows the decimal fraction. The left input must be less than the right input.

**Tolerance Error:** There are four choices which are 5%, 10%, 15% and 20%.

**Start Bit:** Set the Start Bit of START as 0 or 1.

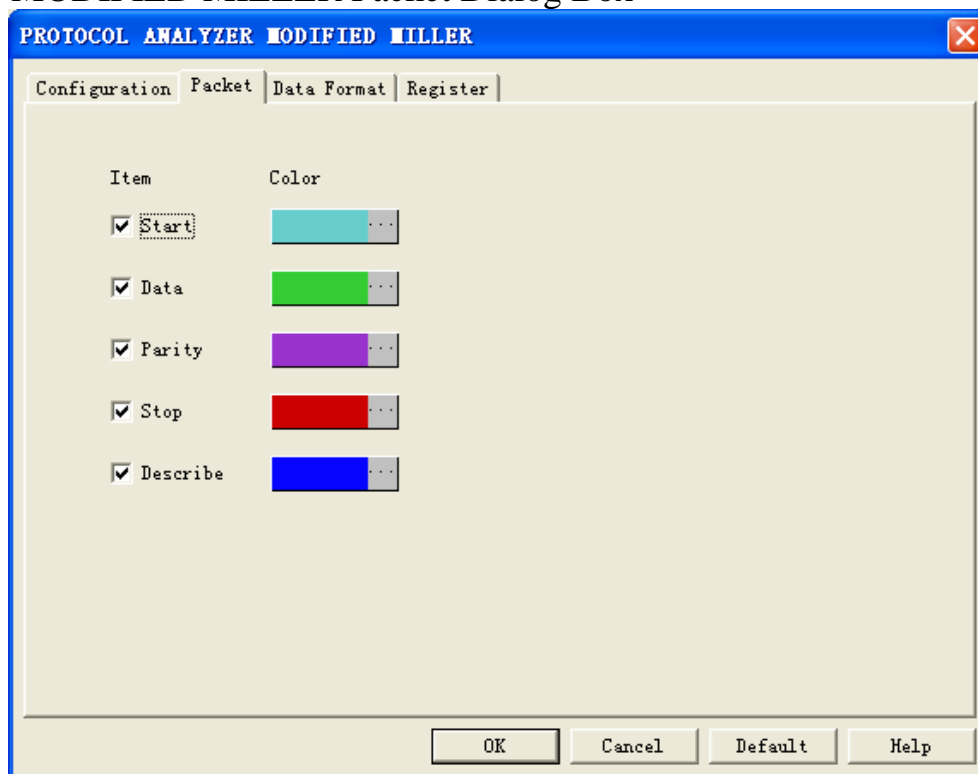
**Parity Check:** Users can select None parity or Odd Parity or Even Parity to set Parity Check.

#### Protocol Analyzer Color:

Users can set the color of the packet as their requirements.

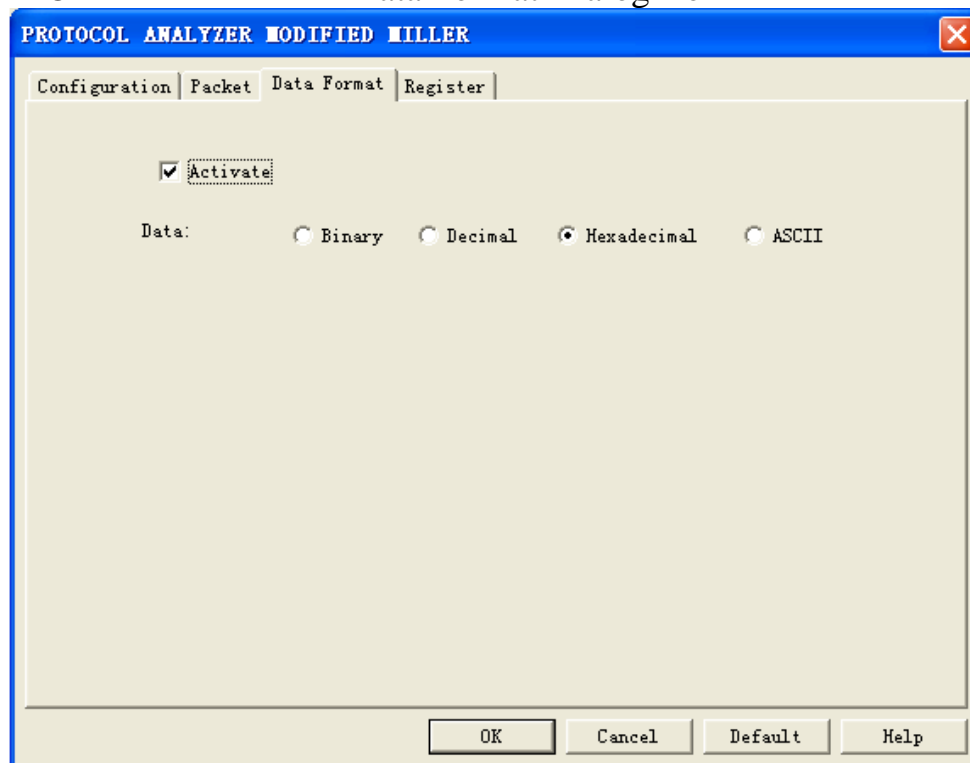


## MODIFIED MILLER Packet Dialog Box



Users can vary the color of the packet as their requirements.

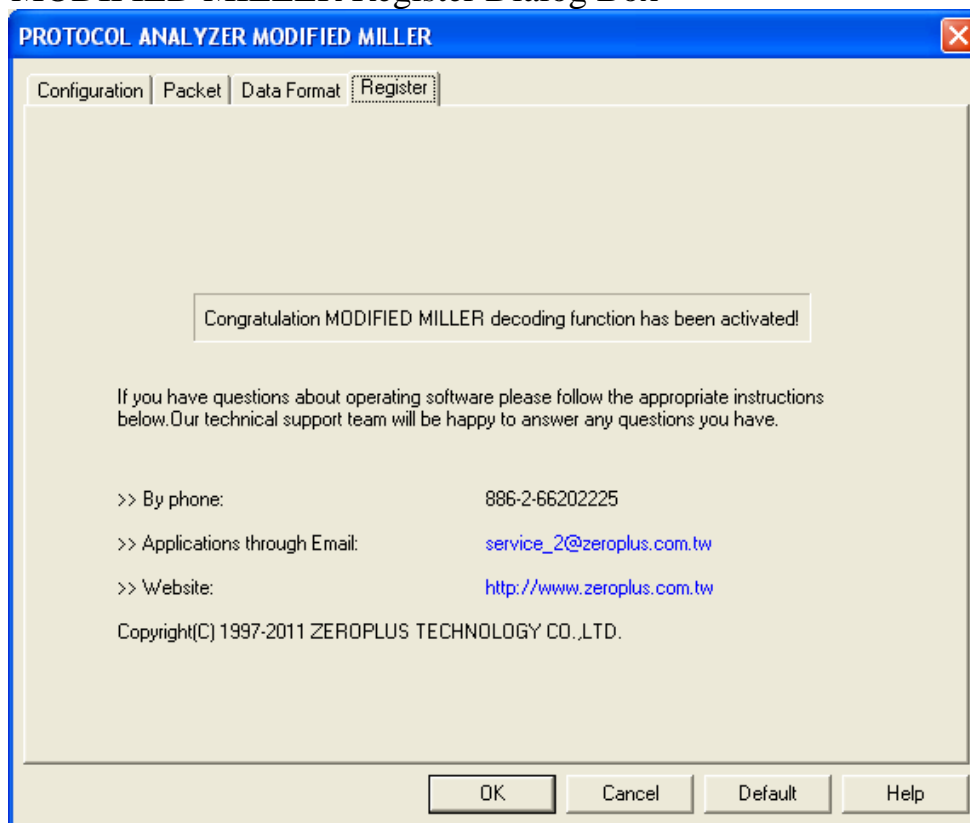
## MODIFIED MILLER Data Format Dialog Box



Users can set the Data Format of the 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.



## MODIFIED MILLER Register Dialog Box



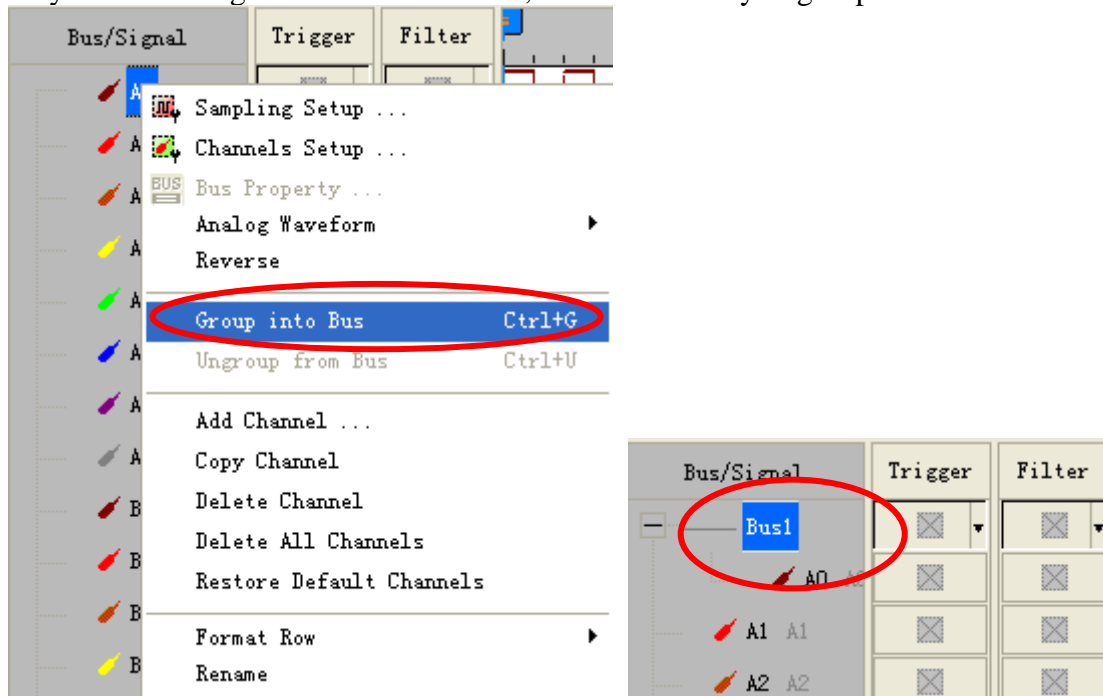
There is written ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.



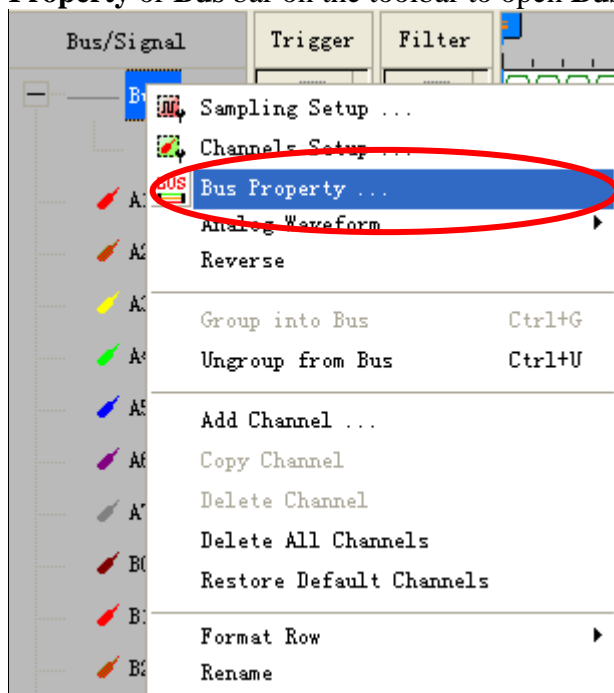


### 3 Operating Instructions

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

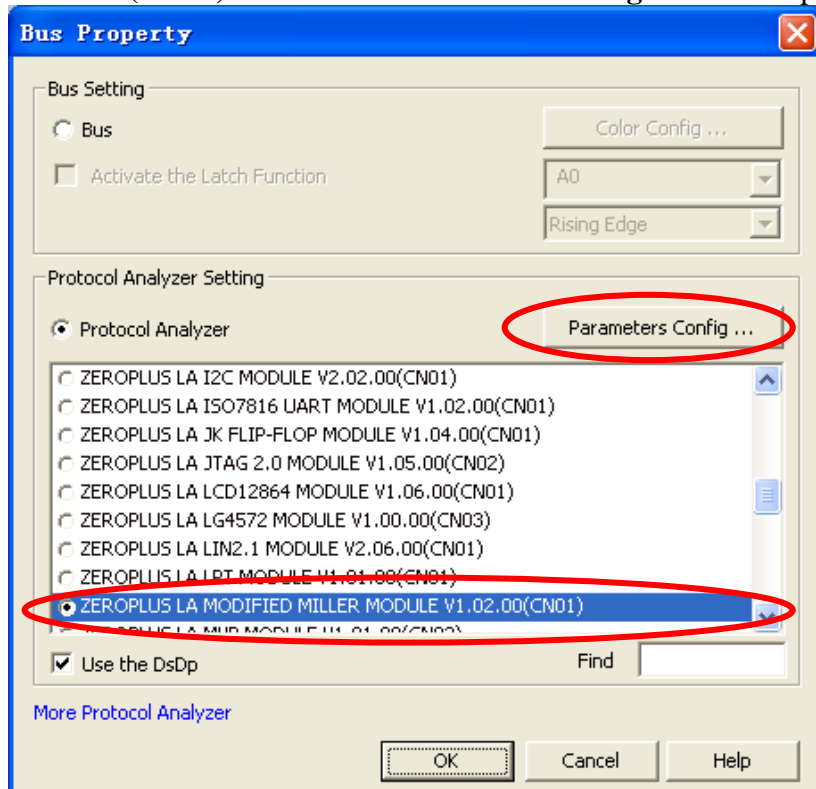


**STEP 2.** Select **Bus1**, then press **Right Key** on the mouse to list the menu, and then press **Bus Property** or **Bus** bar on the toolbar to open **Bus Property** dialog box.

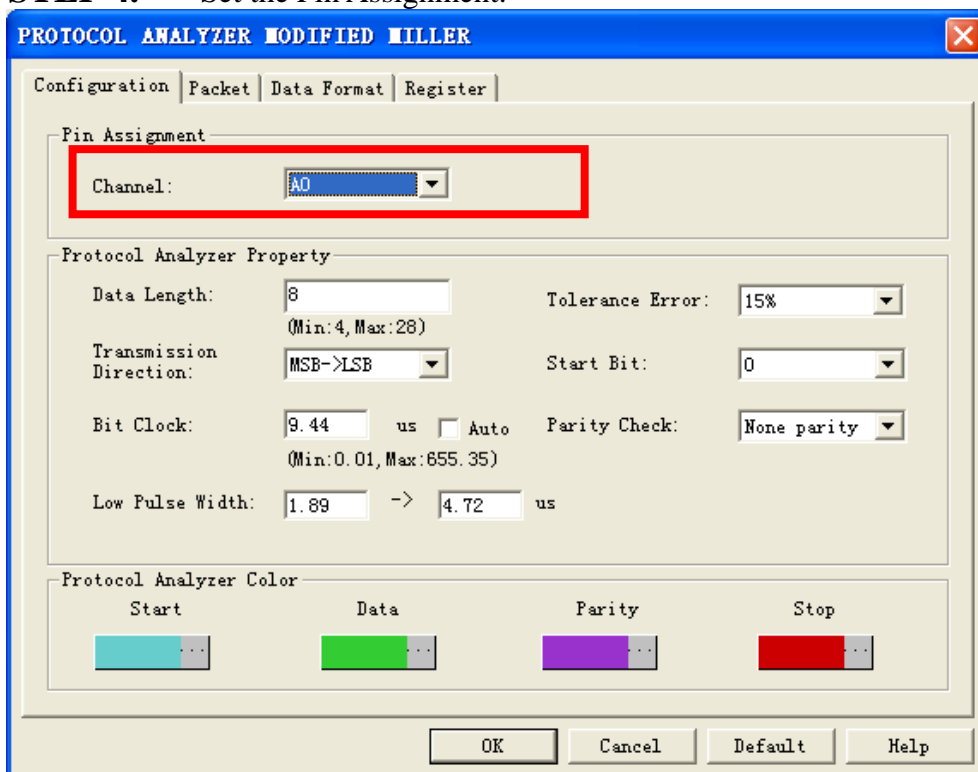




**STEP 3.** For Protocol Analyzer MODIFIED MILLER Parameters Configuration, select Protocol Analyzer, and then select **ZEROPLUS MODIFIED MILLER MODULE V1.02.00(CN01)**. Next click **Parameters Configuration** to open **Configuration** dialog box.



**STEP 4.** Set the Pin Assignment.





## STEP 5. Set the Protocol Analyzer Property.

**PROTOCOL ANALYZER MODIFIED MILLER**

Configuration | Packet | Data Format | Register

Pin Assignment

Channel:

Protocol Analyzer Property

Data Length:  (Min:4, Max:28) Tolerance Error:

Transmission Direction:  Start Bit:

Bit Clock:  us ☐ Auto Parity Check:

(Min:0.01, Max:655.35)

Low Pulse Width:  ->  us

Protocol Analyzer Color

Start Data Parity Stop

OK Cancel Default Help

## STEP 6. Set the Protocol Analyzer Color.

**PROTOCOL ANALYZER MODIFIED MILLER**

Configuration | Packet | Data Format | Register

Pin Assignment

Channel:

Protocol Analyzer Property

Data Length:  (Min:4, Max:28) Tolerance Error:

Transmission Direction:  Start Bit:

Bit Clock:  us ☐ Auto Parity Check:

(Min:0.01, Max:655.35)

Low Pulse Width:  ->  us

Protocol Analyzer Color

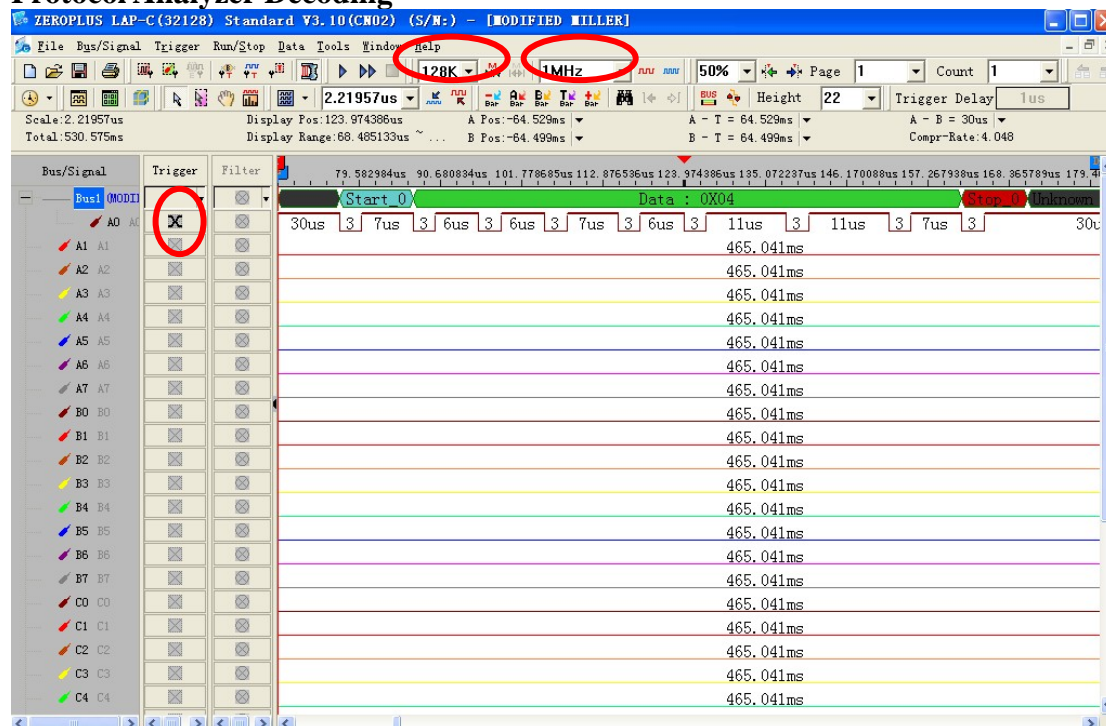
Start Data Parity Stop

OK Cancel Default Help



**STEP 7.** 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 1MHz. (the sampling frequency should be more than 10 times higher than the signal to be tested)

### Protocol Analyzer Decoding



### Packet List

