



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

# SPECIFICATION

**MODEL: B12002-MIDI**

**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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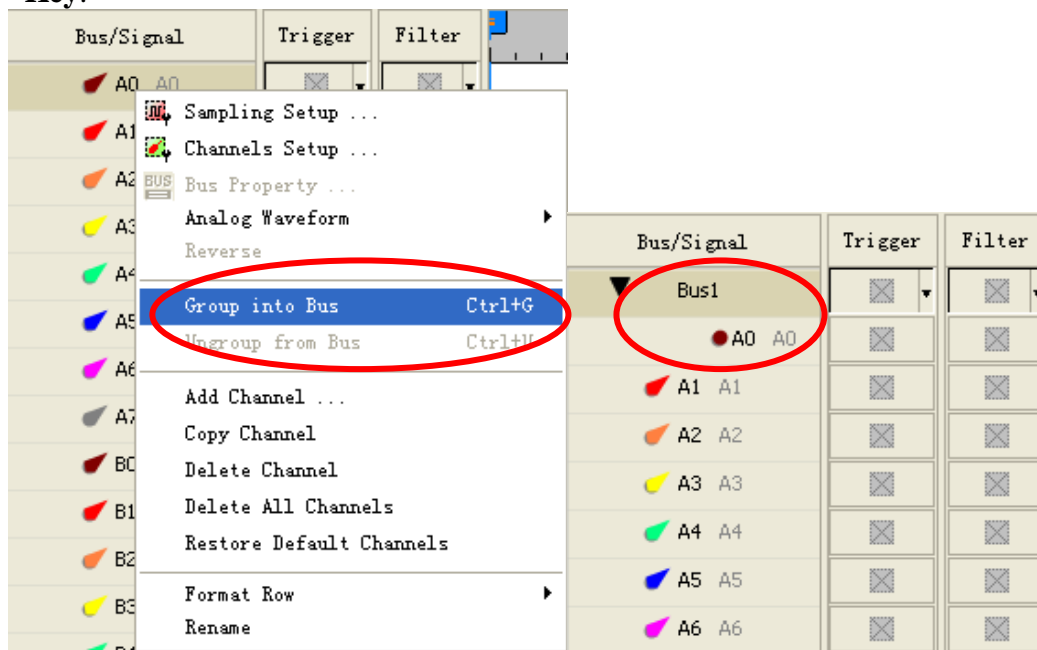
## 1. Software Register

Please register the software as the following steps:

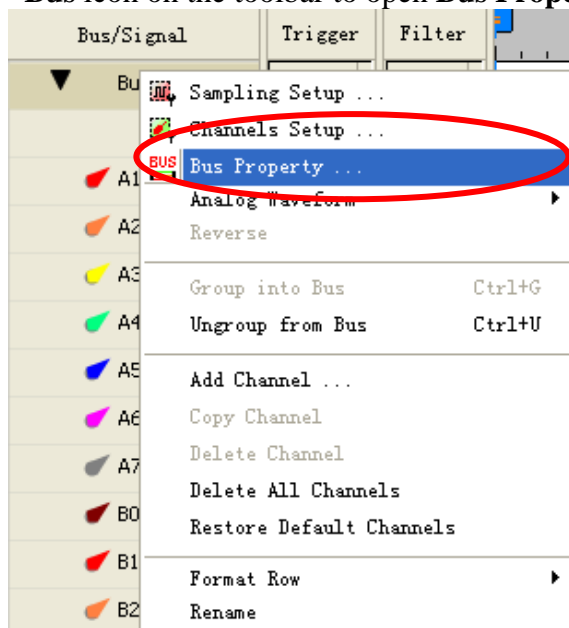
※ Remark1: The registration steps for all protocol analyzers are the same; you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.

※ 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**.

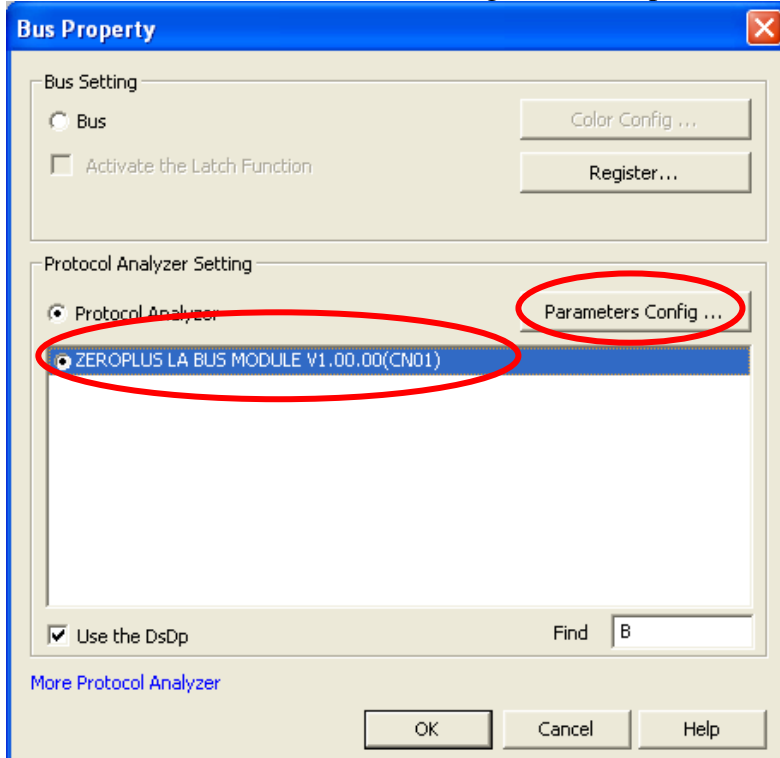


**STEP 2.** Select **Bus 1**, then press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

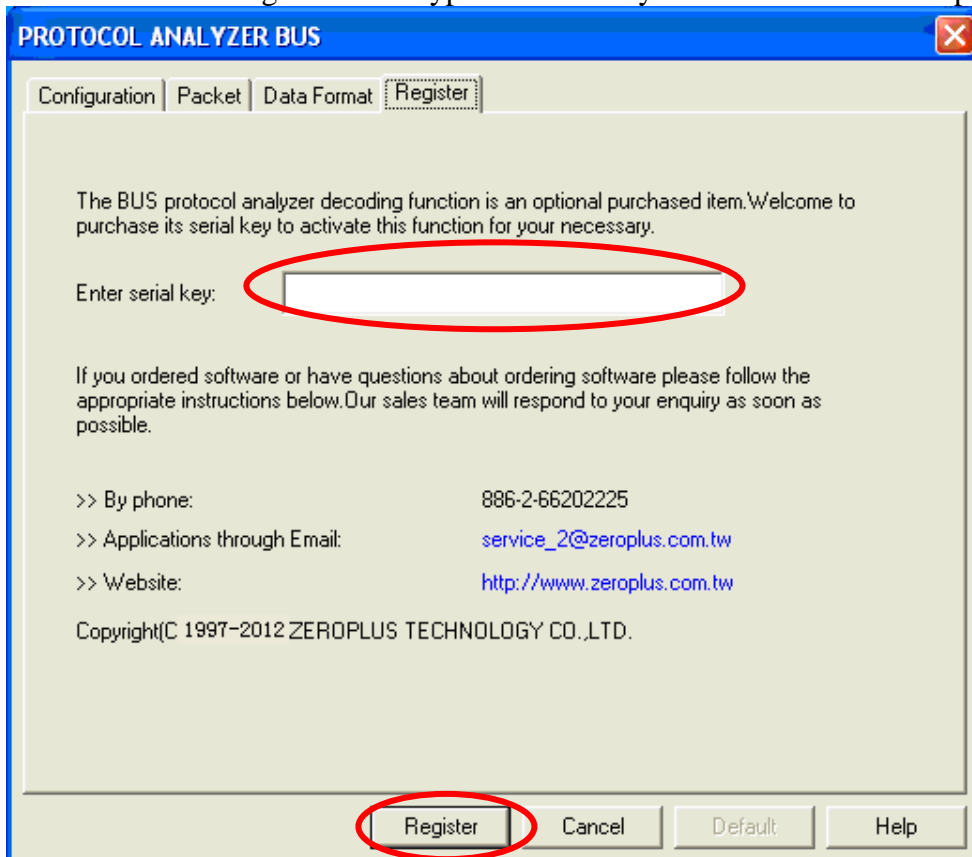




**STEP 3.** Select the Protocol Analyzer, and then choose **ZEROPLUS LA BUS MODULE V1.00.00 (CN01)**. Next click Parameters Configuration to open Protocol Analyzer BUS dialog box.

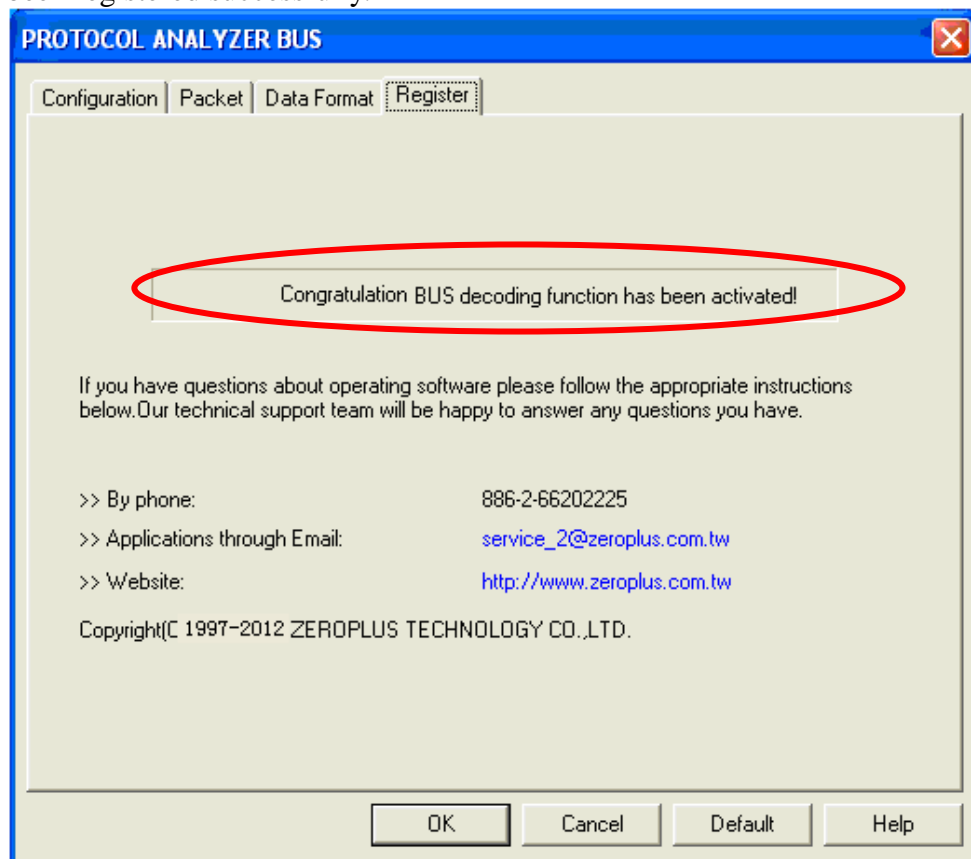


**STEP 4.** Press Register tab to type the serial key number of BUS. Then press Register.





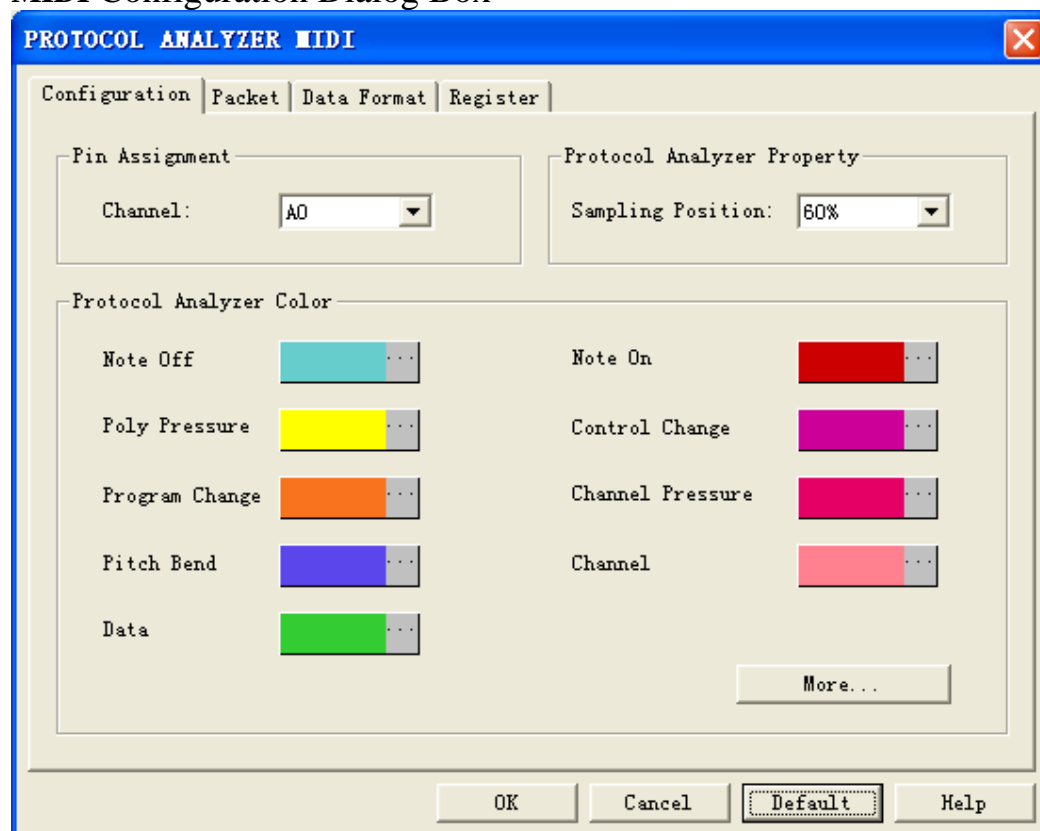
**STEP 5.** After pressing the Register button, following dialog box will appear, it denotes that the BUS has been registered successfully.



## 2. User Interface

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

### MIDI Configuration Dialog Box



#### Pin Assignment:

Protocol Analyzer MIDI only needs one channel to decode, which is A0 by default.

#### Protocol Analyzer Property:

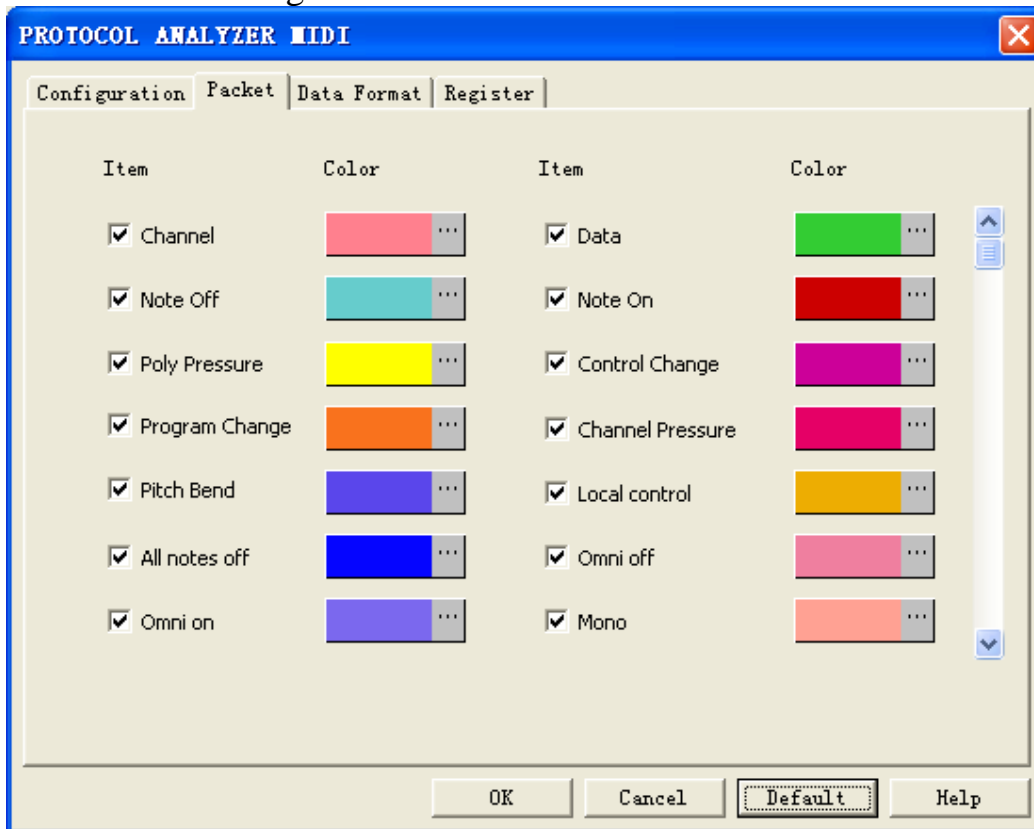
Sampling Position: There are 50%, 60%, 70%, 80%, 90% to choose, the default is 60%.

#### Protocol Analyzer Color:

The color can be varied by users.

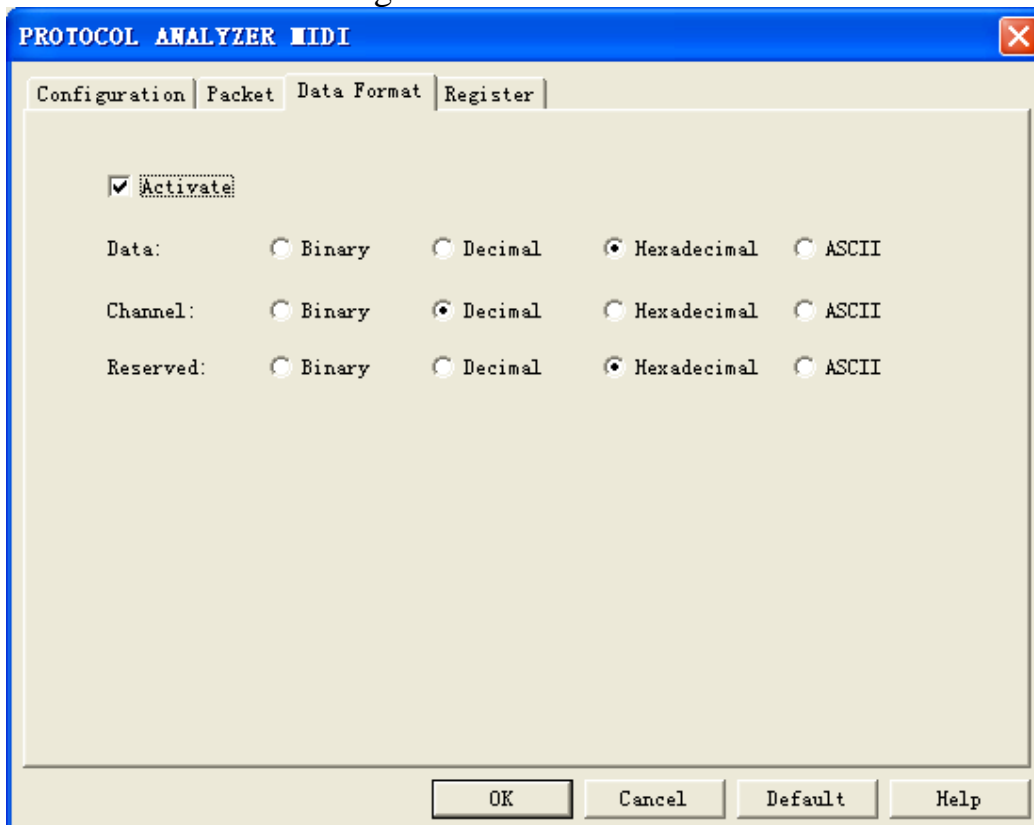


## MIDI Packet Dialog Box



In the Packet dialog box, users can set the items to be displayed and their colors.

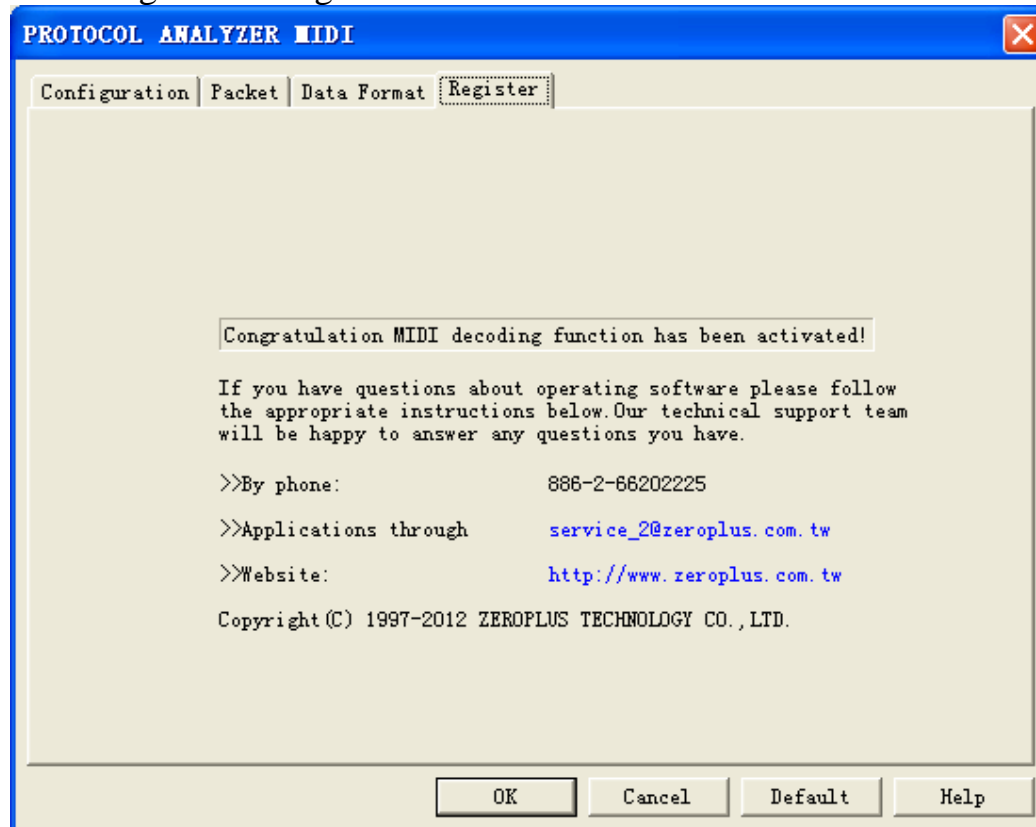
## MIDI Data Format Dialog Box





Users can set the Data, Channel, Reserved Format of the Data as their requirements. When selecting the option, Activate, the Data, Channel, Reserved format are decided by the settings in the Protocol Analyzer; when not selecting the option, Activate, the Data, Channel, Reserved format are decided by the settings in the main program.

## MIDI Register Dialog Box

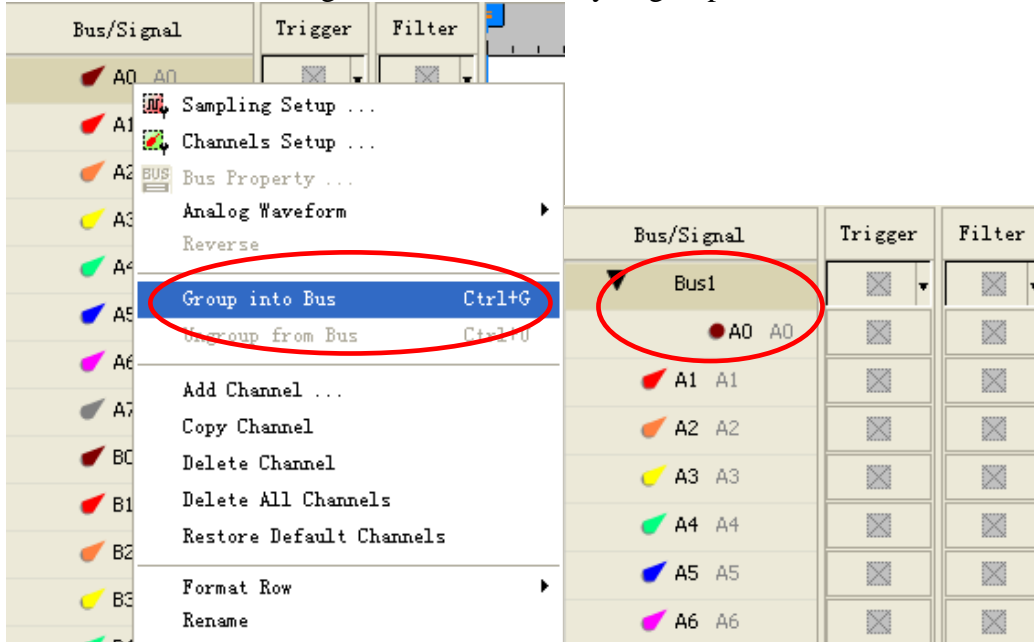


There is ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

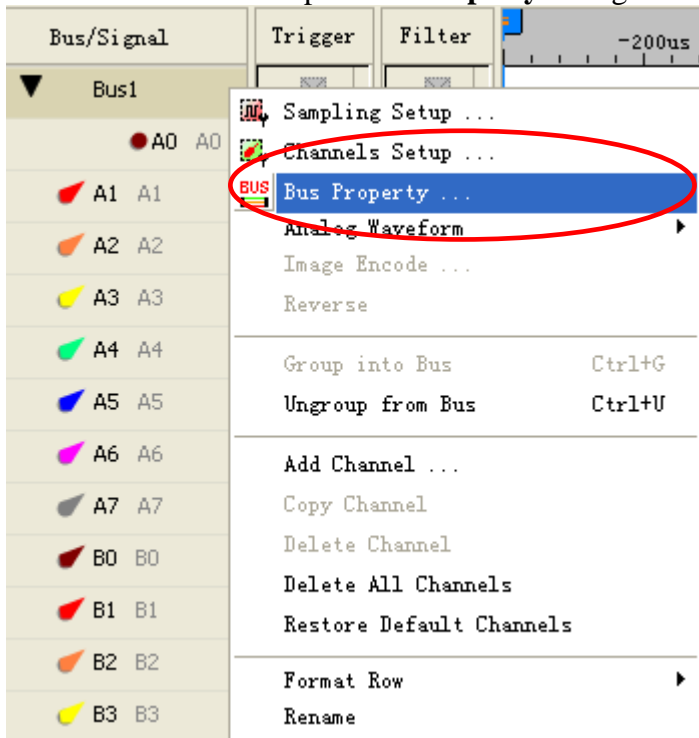


### 3. Operating Instructions

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

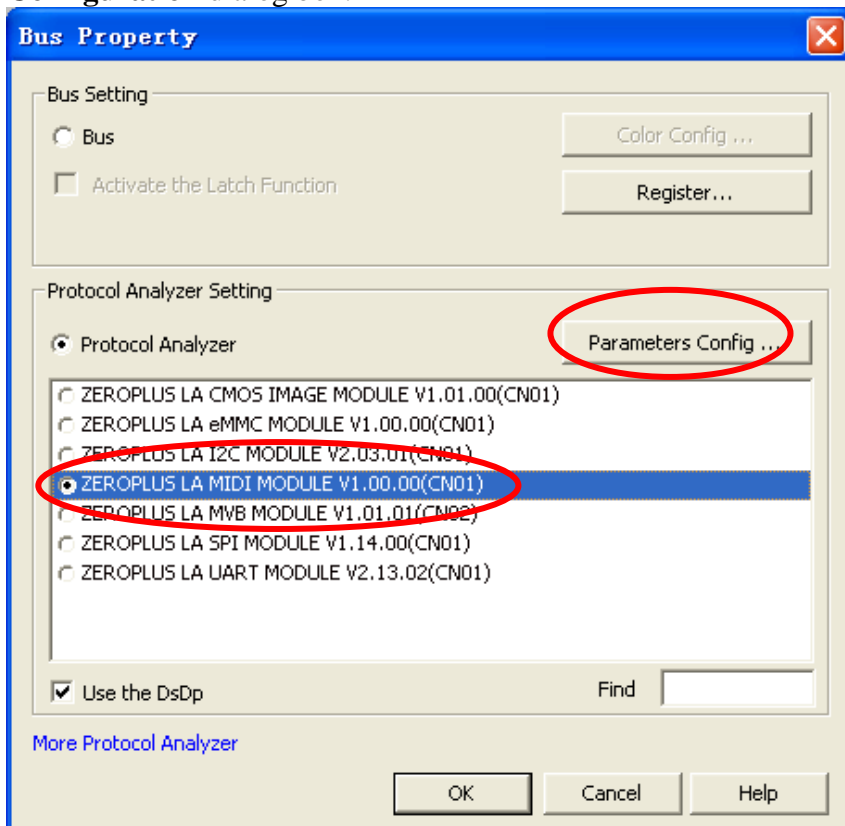


**STEP 2.** Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

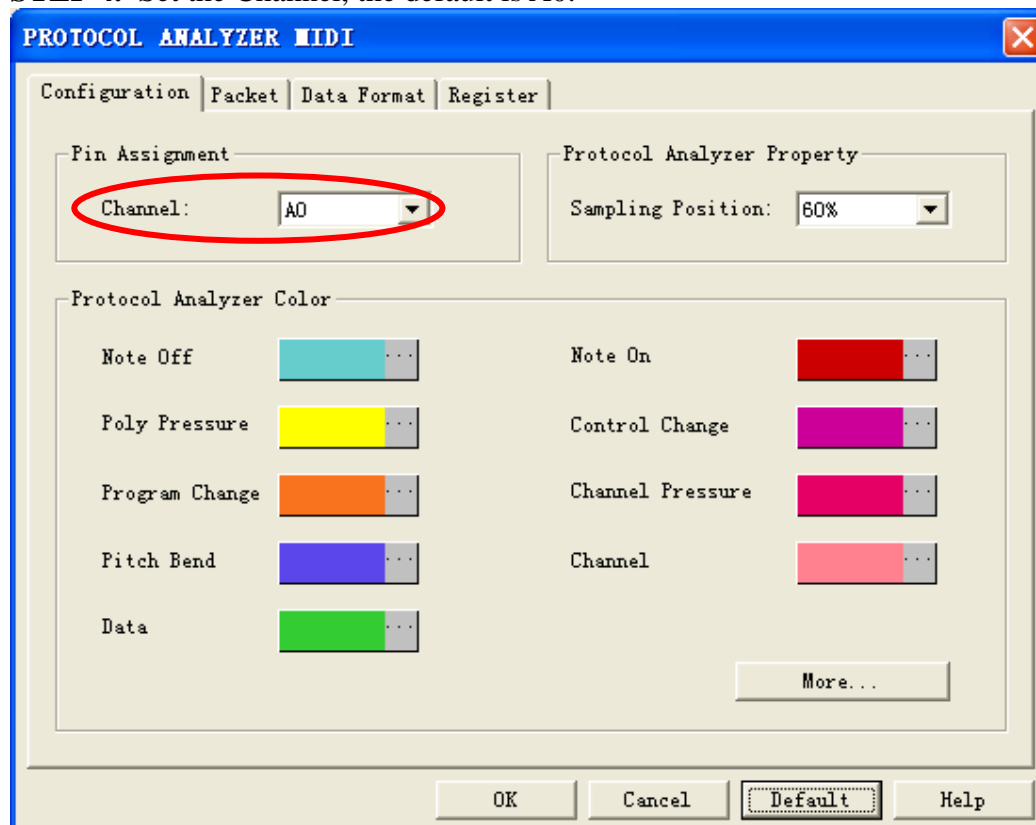




**STEP 3.** For Protocol Analyzer MIDI Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA MIDI MODULE V1.00.00(CN01)**. Next click **Parameters Configuration** to open **Configuration** dialog box.

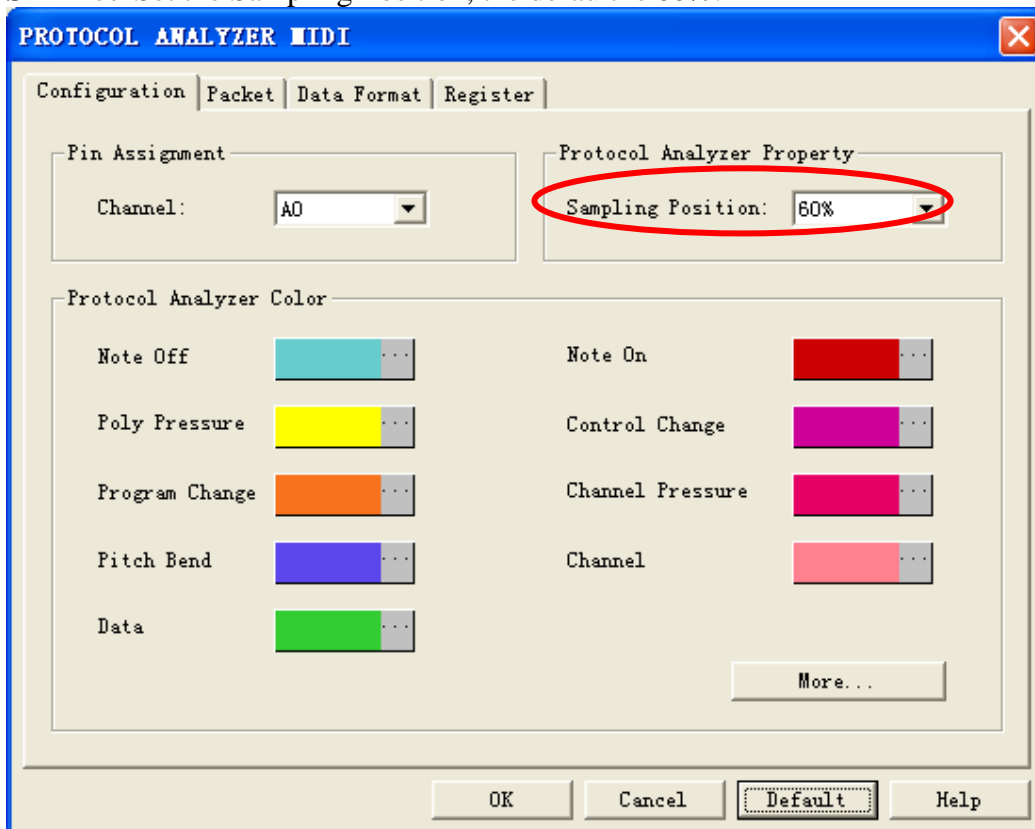


**STEP 4.** Set the Channel, the default is A0.

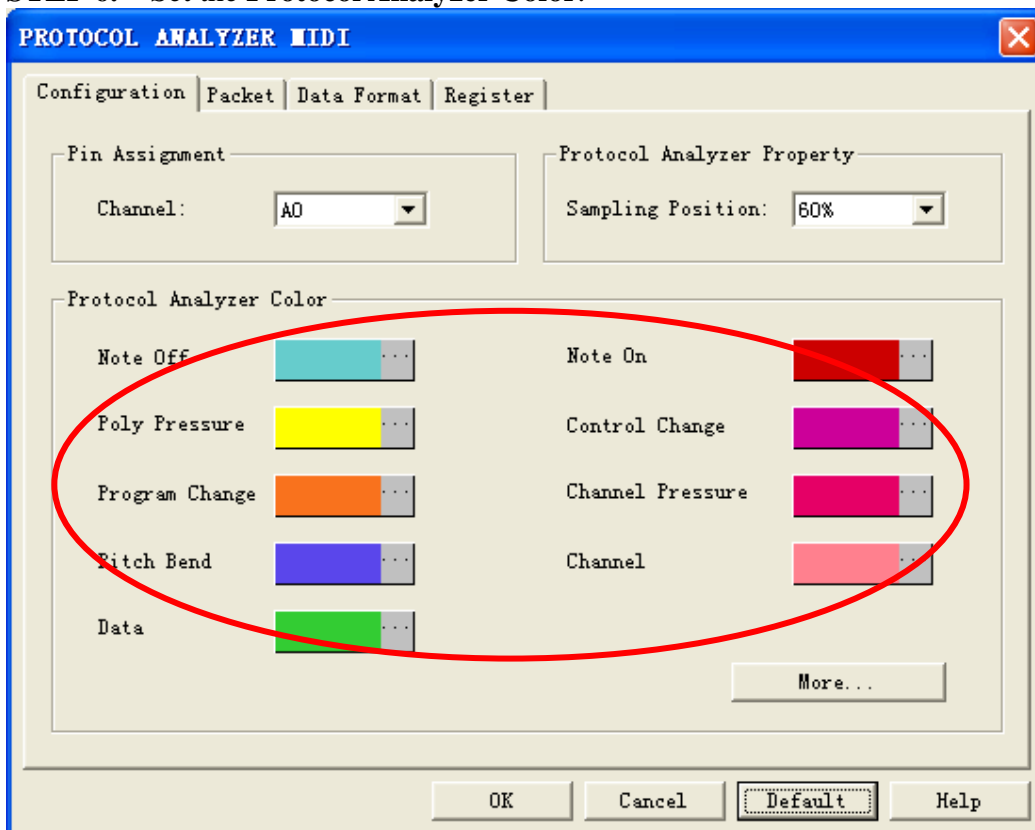




**STEP 5.** Set the Sampling Position, the default is 60%.



**STEP 6.** Set the Protocol Analyzer Color.





**STEP 7. Set the Protocol Analyzer Color(More).**

**Protocol Analyzer Color** [X]

**Voice messages Color**

Note Off	[Color Picker]	Note On	[Color Picker]
Poly Pressure	[Color Picker]	Control Change	[Color Picker]
Program Change	[Color Picker]	Channel Pressure	[Color Picker]
Pitch Bend	[Color Picker]	Channel	[Color Picker]

**Mode messages Color**

Local control	[Color Picker]	All notes off	[Color Picker]
Omni off	[Color Picker]	Omni on	[Color Picker]
Mono	[Color Picker]	Poly	[Color Picker]

**System Exclusive Color**

Song Position Pointer	[Color Picker]	Song Select	[Color Picker]
Tune Request	[Color Picker]	End of Exclusive	[Color Picker]

**Real time messages Color**

MIDI Clock	[Color Picker]	Start	[Color Picker]
Continue	[Color Picker]	Stop	[Color Picker]
Active Sensing	[Color Picker]	System Reset	[Color Picker]

**Manufacturers messages Color**

System Exclusive	[Color Picker]
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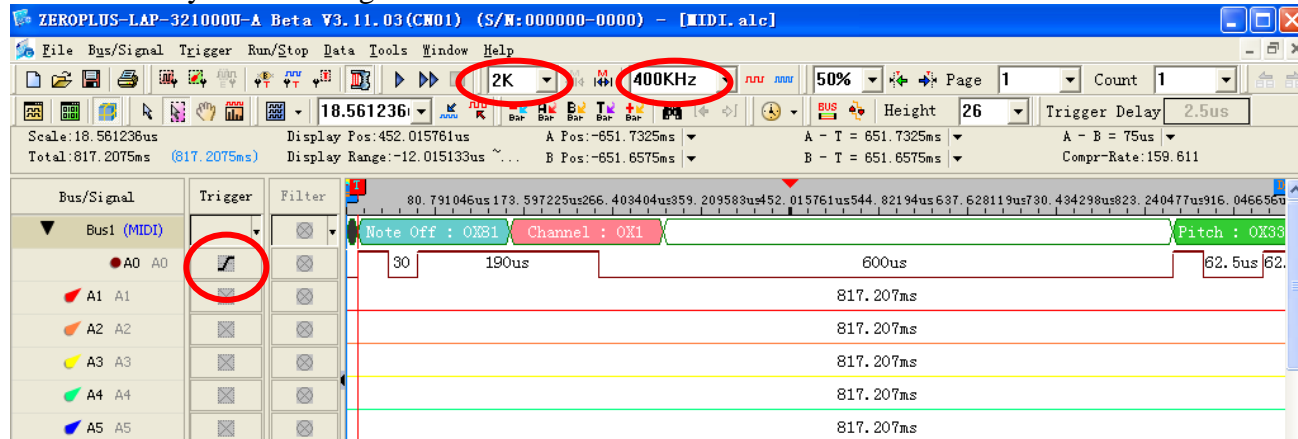
**Other**

Reserved	[Color Picker]	Data	[Color Picker]
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OK Cancel Default

**STEP 8.** Following pictures show the completion of the protocol analyzer decoding and the packet list. The trigger condition is Rising Edge; the memory depth is 2K; the sampling frequency is 400KHz (the sampling frequency should be more than ten times higher than the signal to be tested).

### Protocol Analyzer Decoding



### Packet List

