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

SPECIFICATION

MODEL:B08033-LAP-ISO7816 UART-M

PART NO： _____

VERSION： V1.02

Approver		Check	Design
GM	PM		

Customer Confirm

＊Please fax the file to Zeroplus Technology after signing .

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Content

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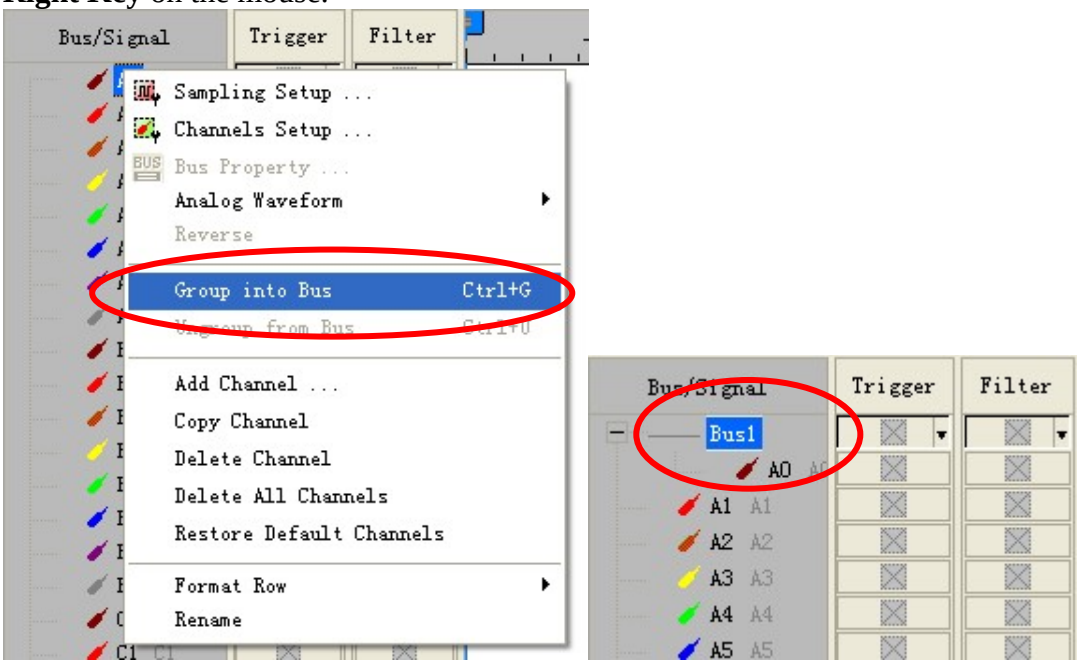
1 Software Register

Please register the software as the following steps：

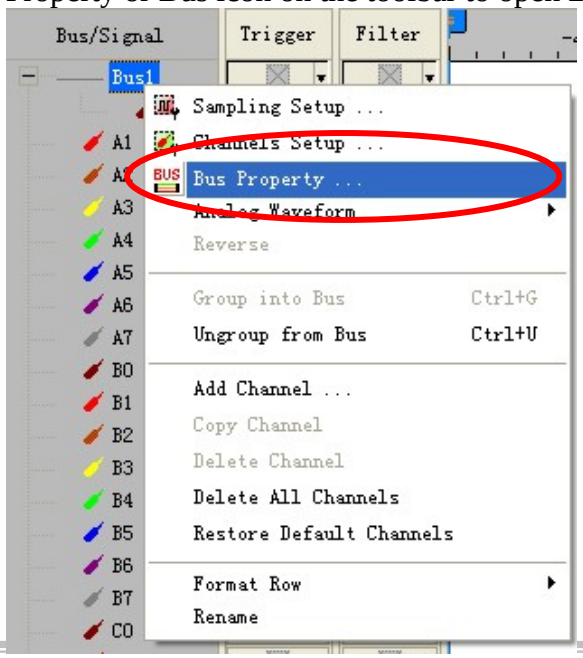
※ Remark: 1. The registration steps for all protocol analyzers are the same, you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.

※Remark: 2. 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 **Bus 1** by pressing **Right Key** on the mouse.



STEP 2. Select Bus 1 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.



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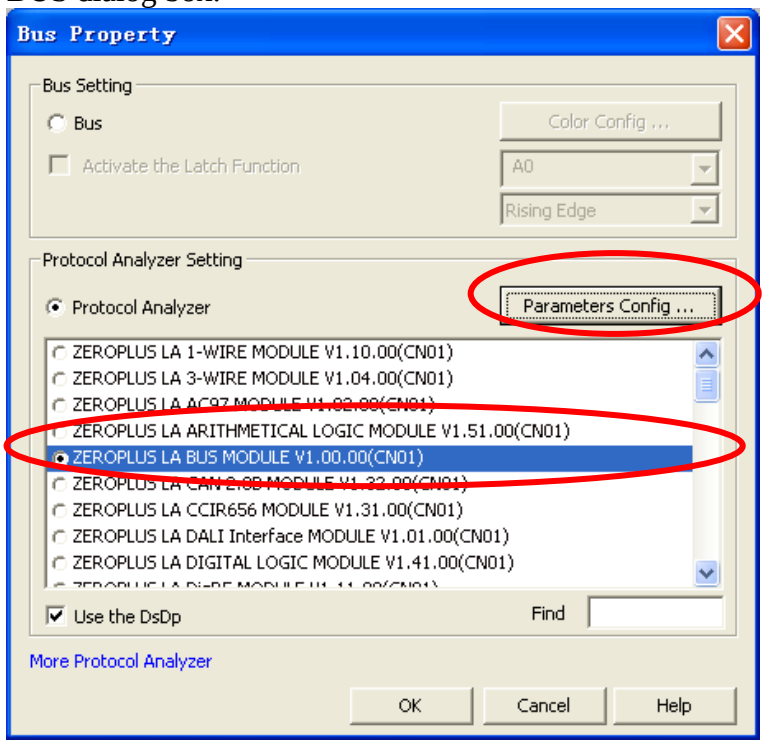
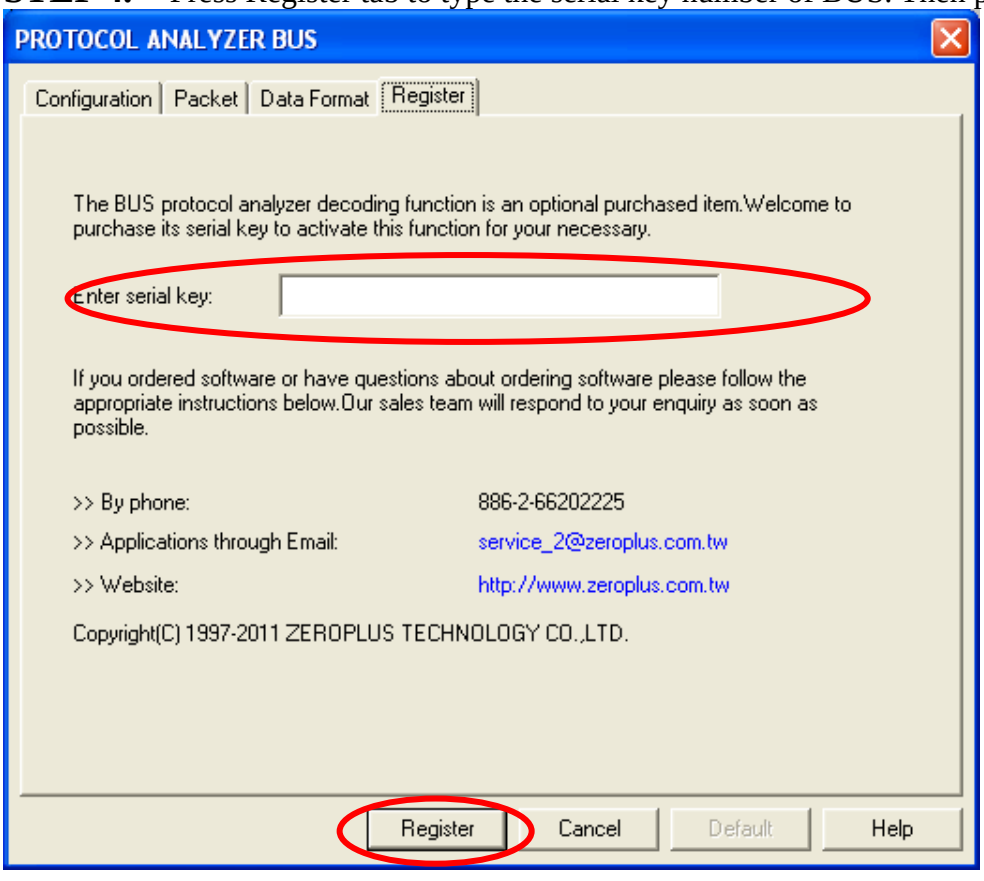
STEP 3. Select Protocol Analyzer, and then choose ZEROPLUS LA BUS MODULE V1.00.00(CN01), next click the Parameters Configuration to open the PTOTOCOL ANALYZER BUS dialog box.



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



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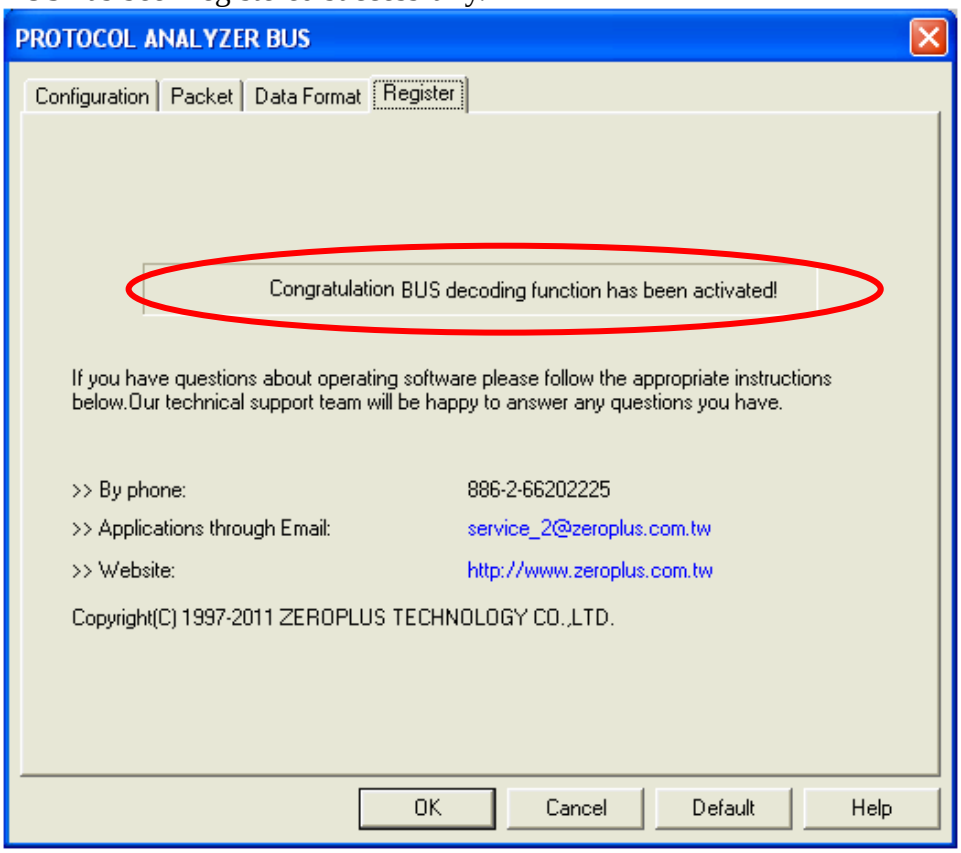
STEP 5. After pressing the Register button, following dialog box will appear, it denotes that the BUS has been registered successfully.



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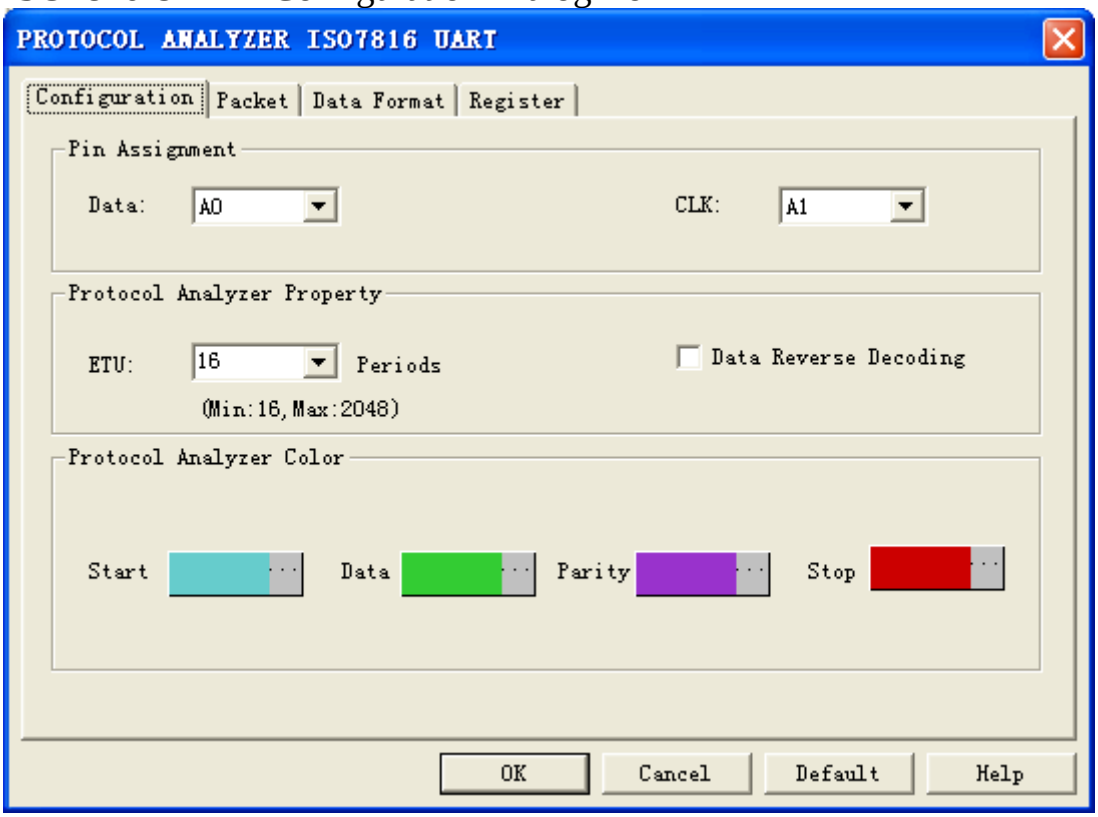
2 User Interface

In the configuration, please refer to the below images to select options of setting ISO7816 UART Module.

ISO7816 UART Configuration Dialog Box



Pin Assignment:

Users can choose two channels, A0 is default for Data, A1 is default for CLK.

Protocol Analyzer Property:

ETU(the number of CLK period for one BIT): The optional values are 16, 256, 372 and 512, users can key in the value between 16 and 2048.

Data Reverse Decoding: This option is to set the data of reverse decoding.

Protocol Analyzer Color:

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

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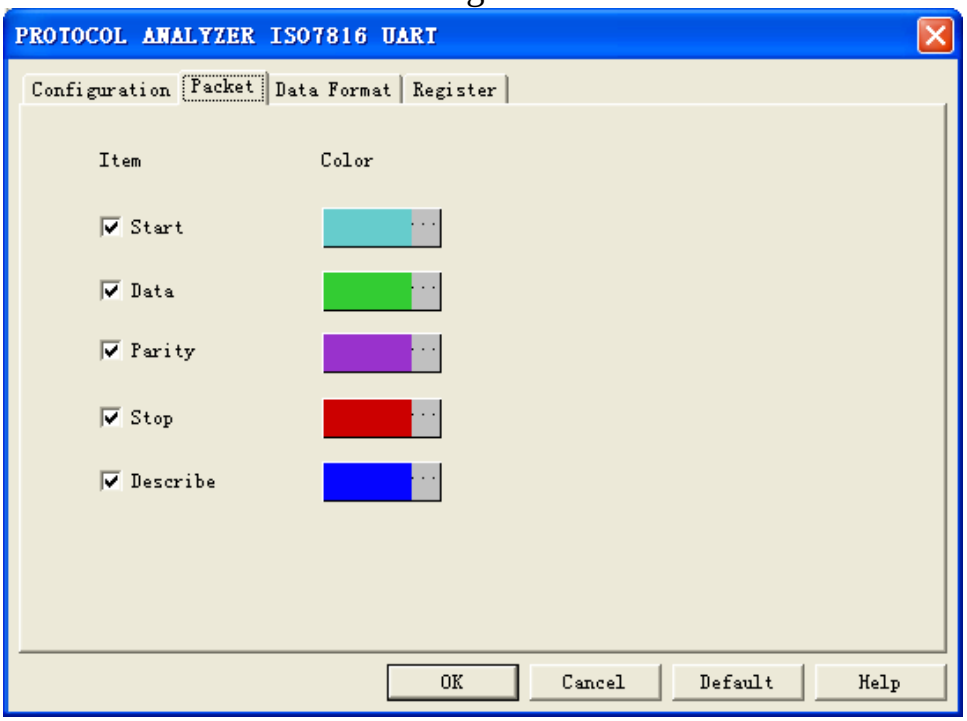
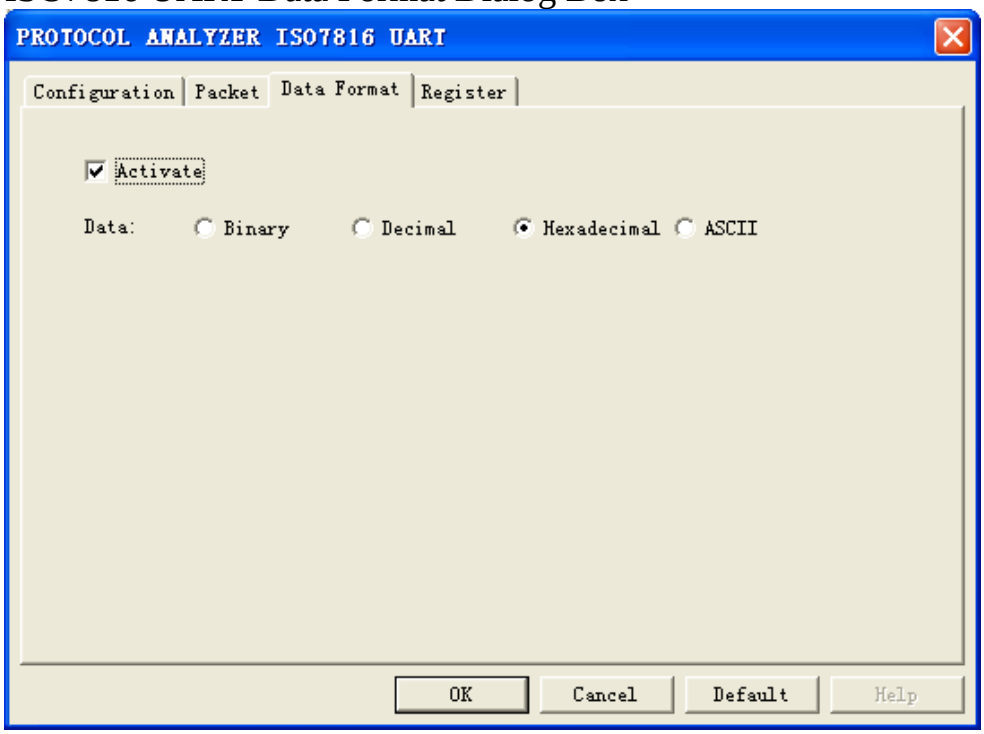
ISO7816 UART Packet Dialog Box



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

ISO7816 UART Data Format Dialog Box



Users can set the Data Format of the Data 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.

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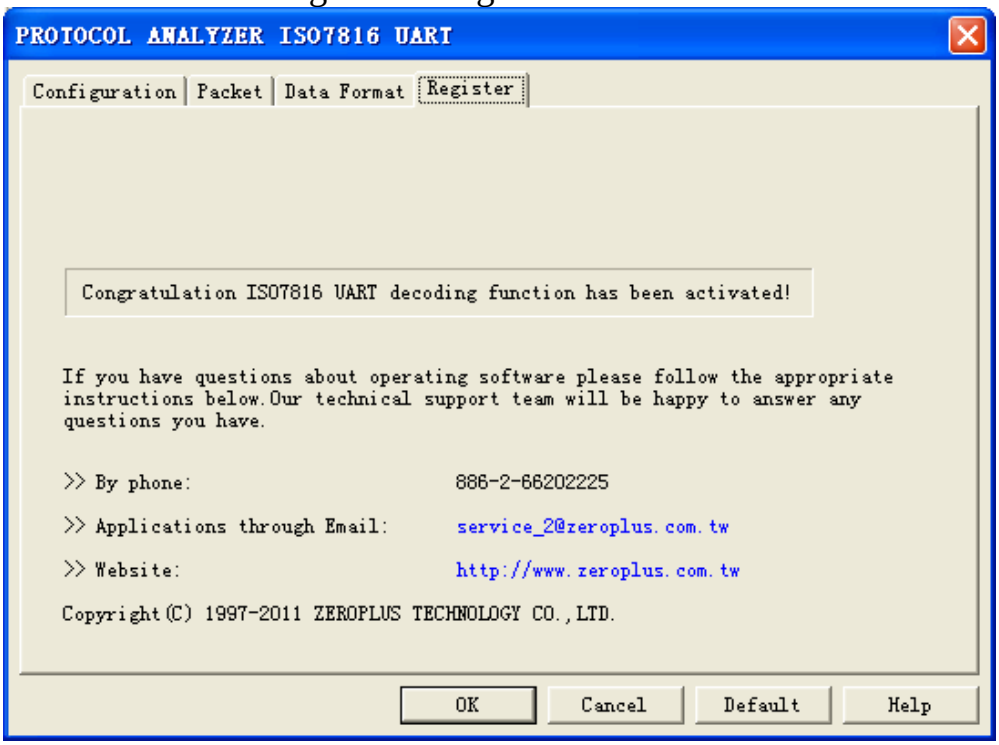
ISO7816 UART Register dialog box



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

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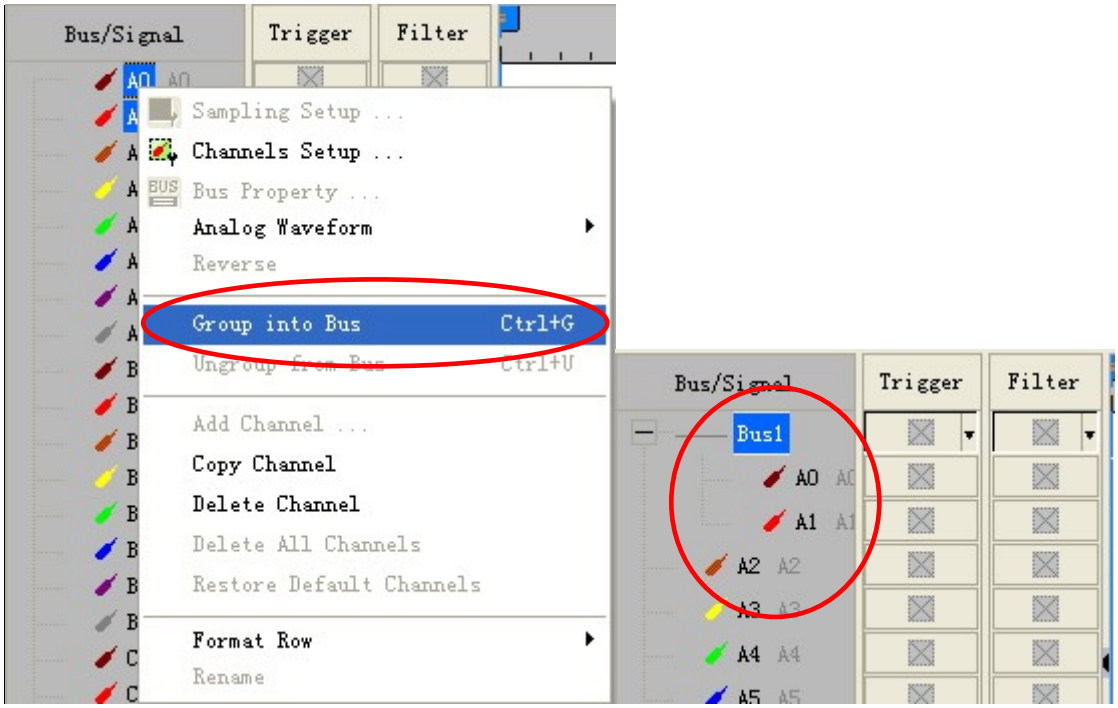
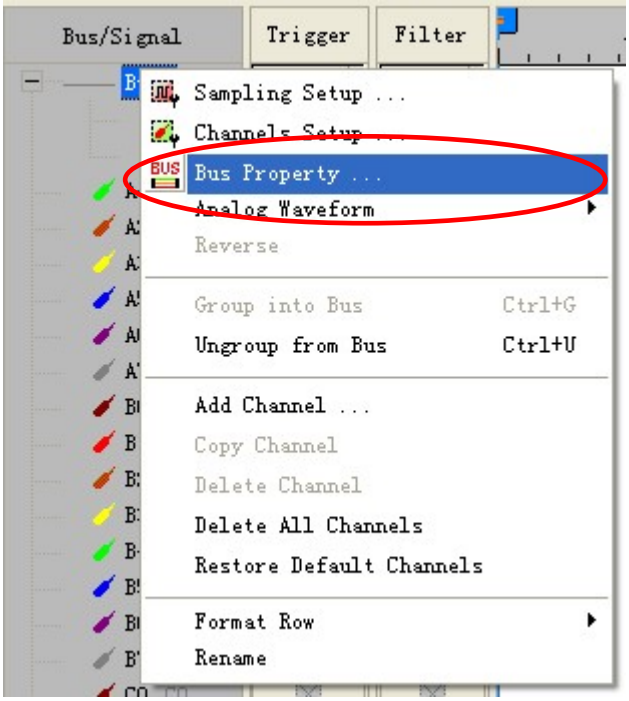
3. Operating Instructions

STEP 1. Group the the A0~A1 channels to **Bus 1** by pressing the **Right Key** on the mouse. ISO7816 UART needs two channels to decode signals at least, so it is necessary to group two channels or more into a Bus.



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



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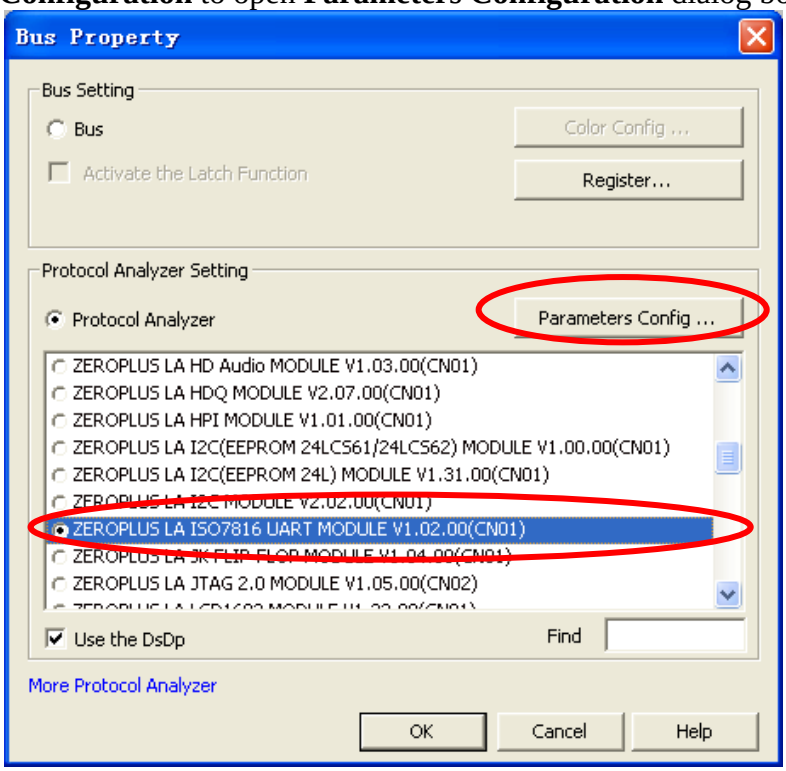
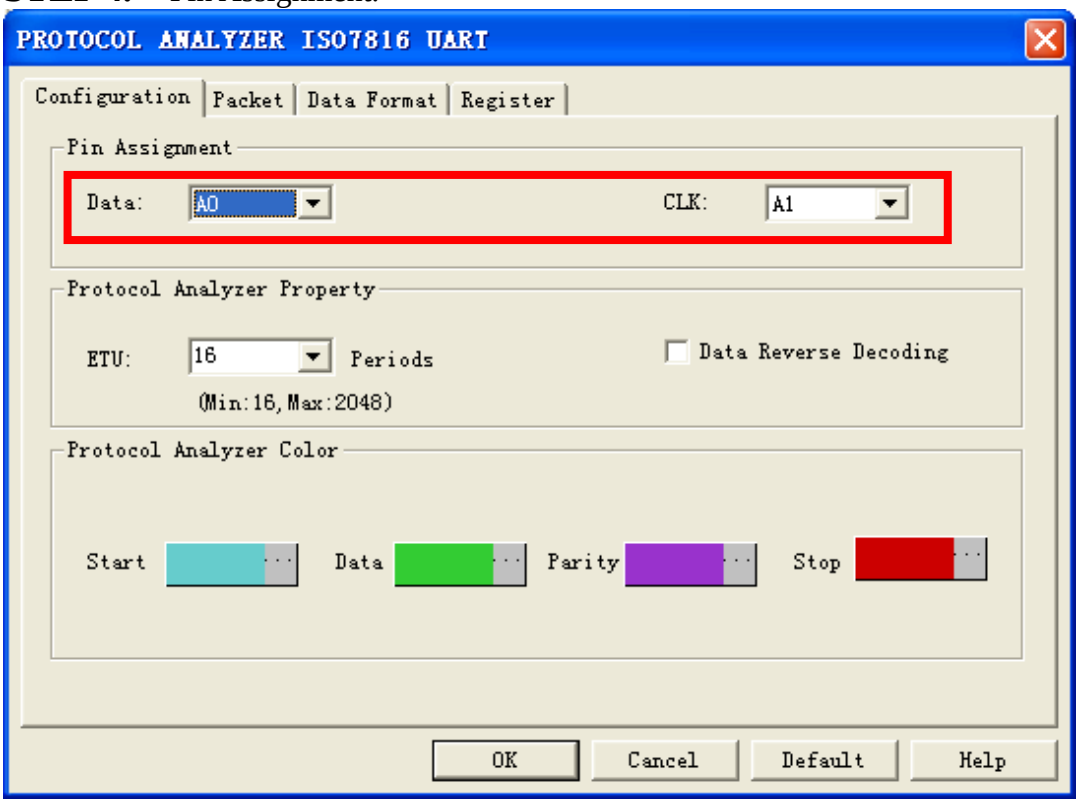
STEP 3. For Protocol Analyzer ISO7816 UART Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA ISO7816 UART MODULE V1.02.00(CN01)**, next click **Parameters Configuration** to open **Parameters Configuration** dialog box.



STEP 4. Pin Assignment.



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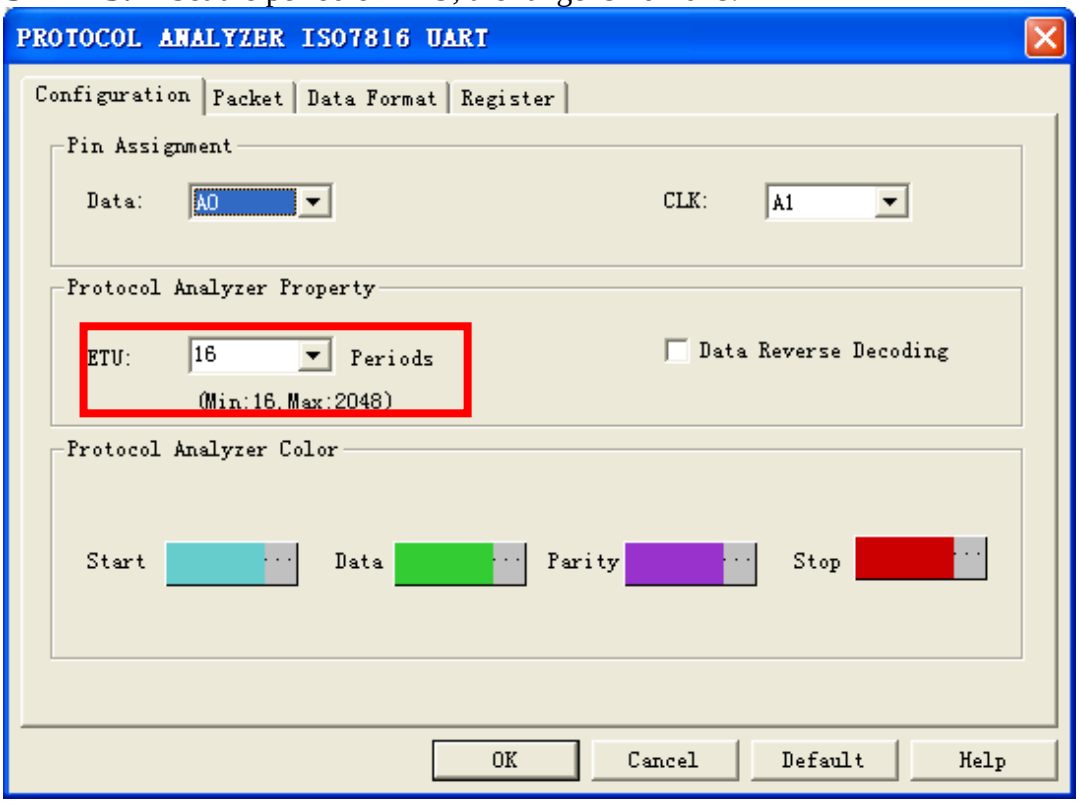
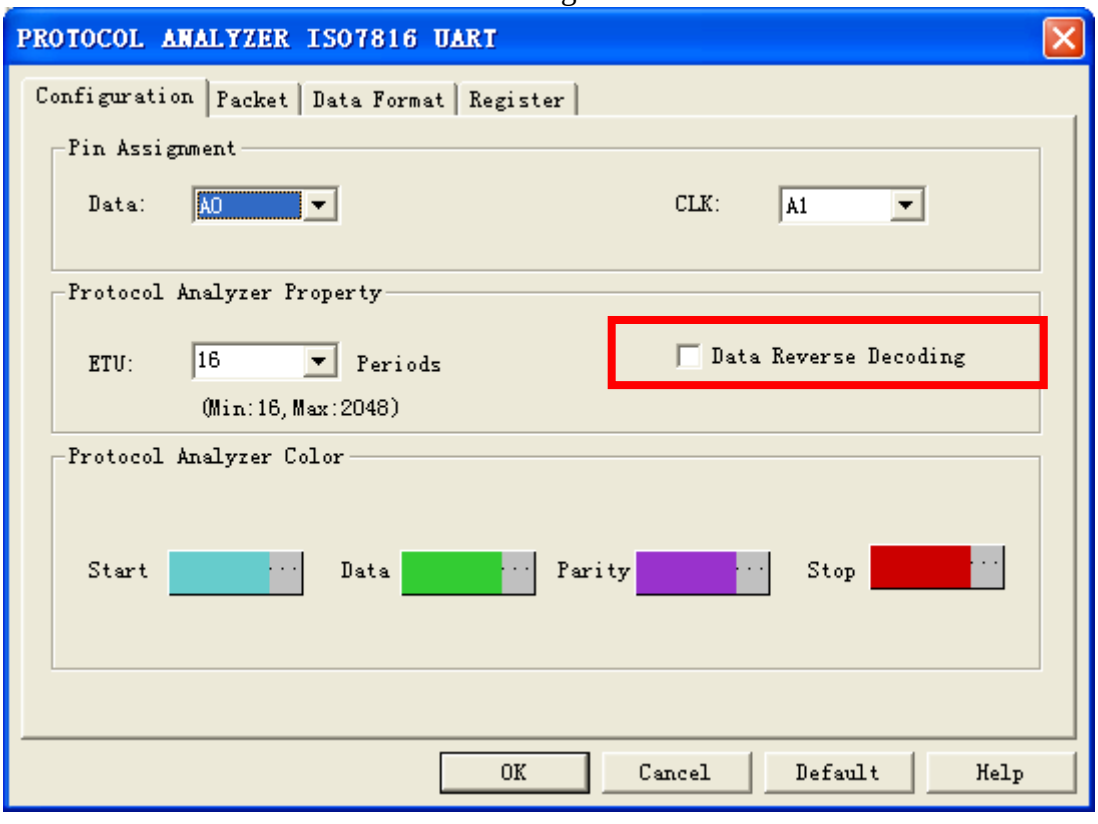
STEP 5. Set the period of ETU, the range is 16-2048.



STEP 6. Set the Data Reverse Decoding.



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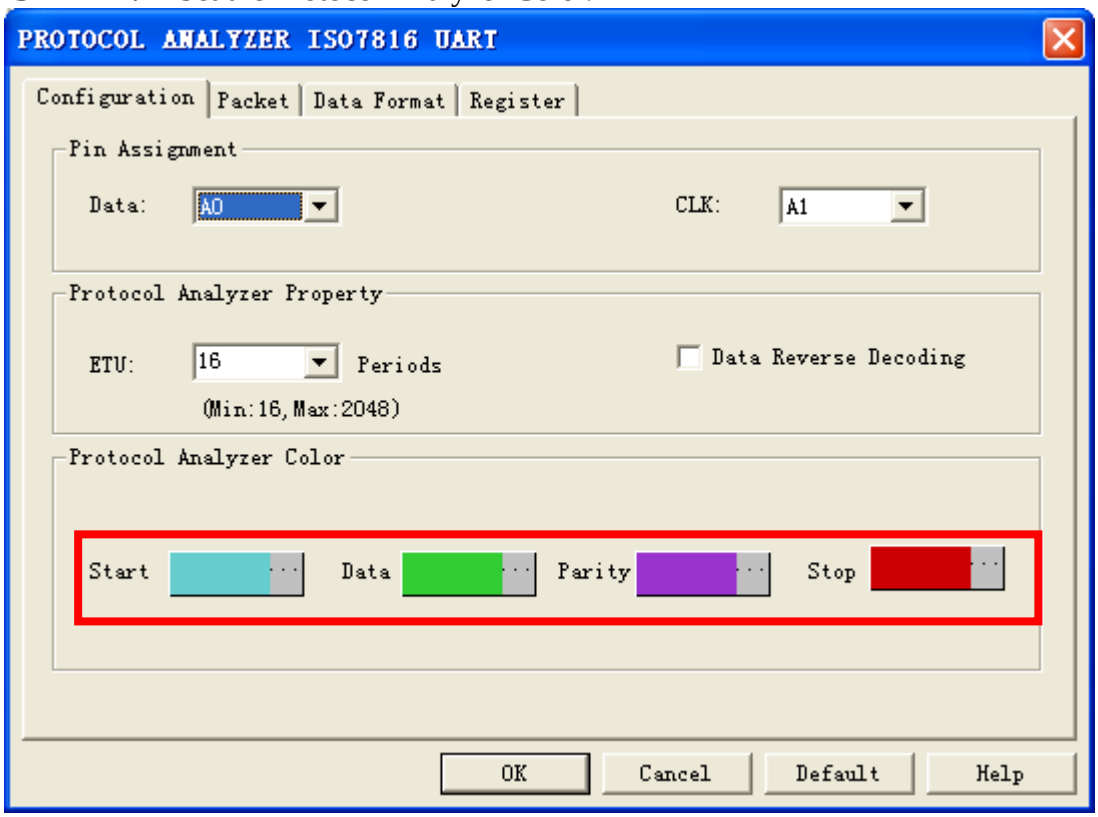
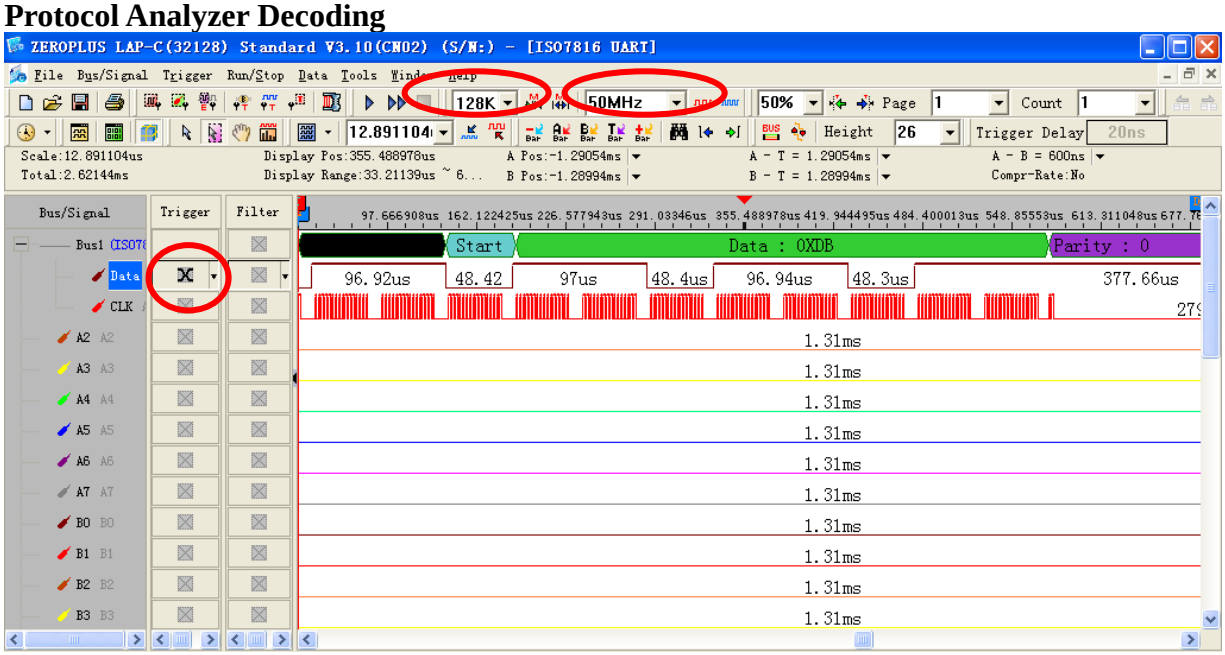
STEP 7. Set the Protocol Analyzer Color.



STEP 8. 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 128K; the sampling frequency is 50MHz. (the sampling frequency should be more than 10 times higher than the signal to be tested.)

Protocol Analyzer Decoding



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Packet List