

# SPECIFICATION

**MODEL: B08026-LAP-USB 1.1-M**

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

**VERSION:** V1.63

Approver		Check	Design
GM	PM		

Customer Confirm

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# Content

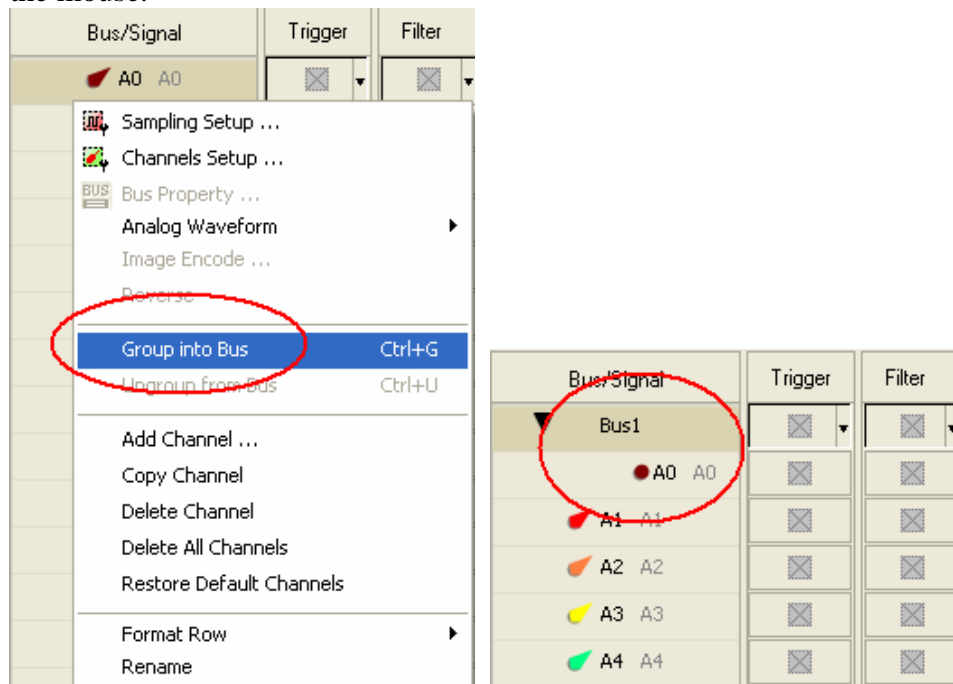
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Please register the software as the following steps:

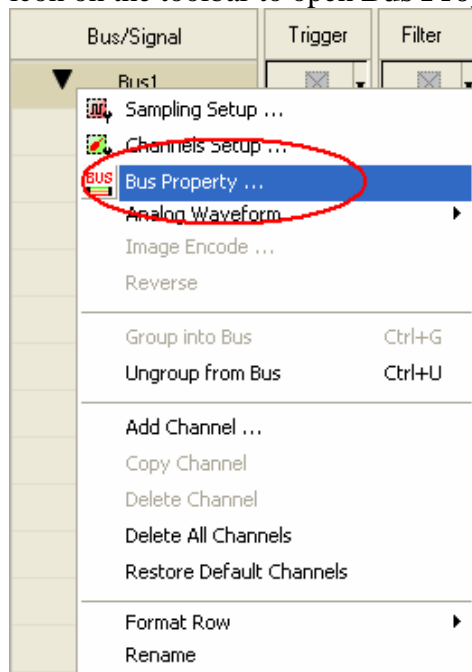
※ Remark1: The registration steps for all protocol analyzers are the same; you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.

※ 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.

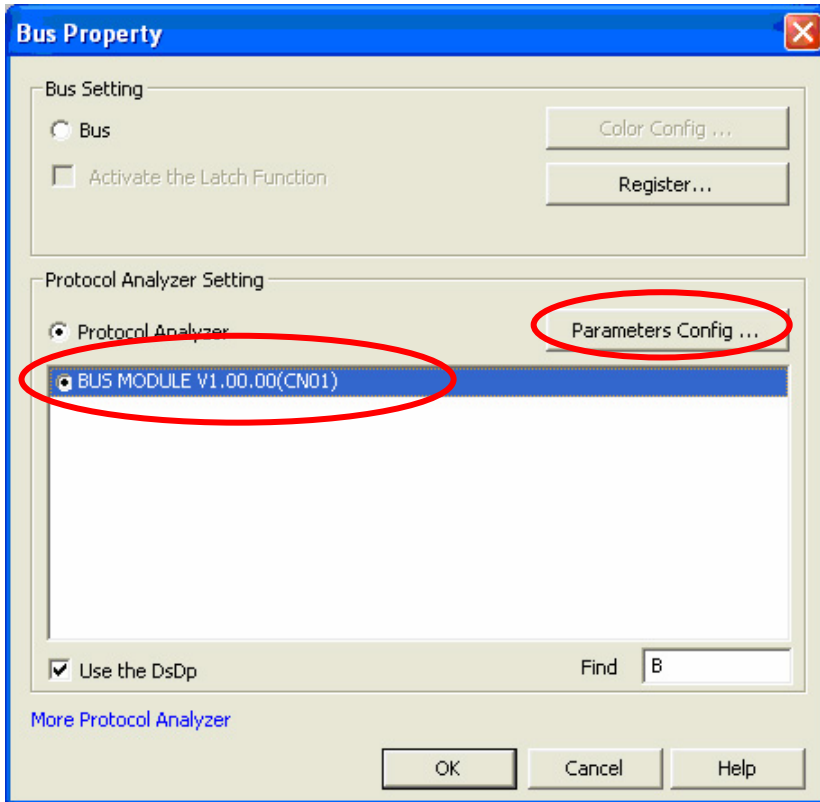
**STEP 1.** Open the Logic Analyzer and group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse.



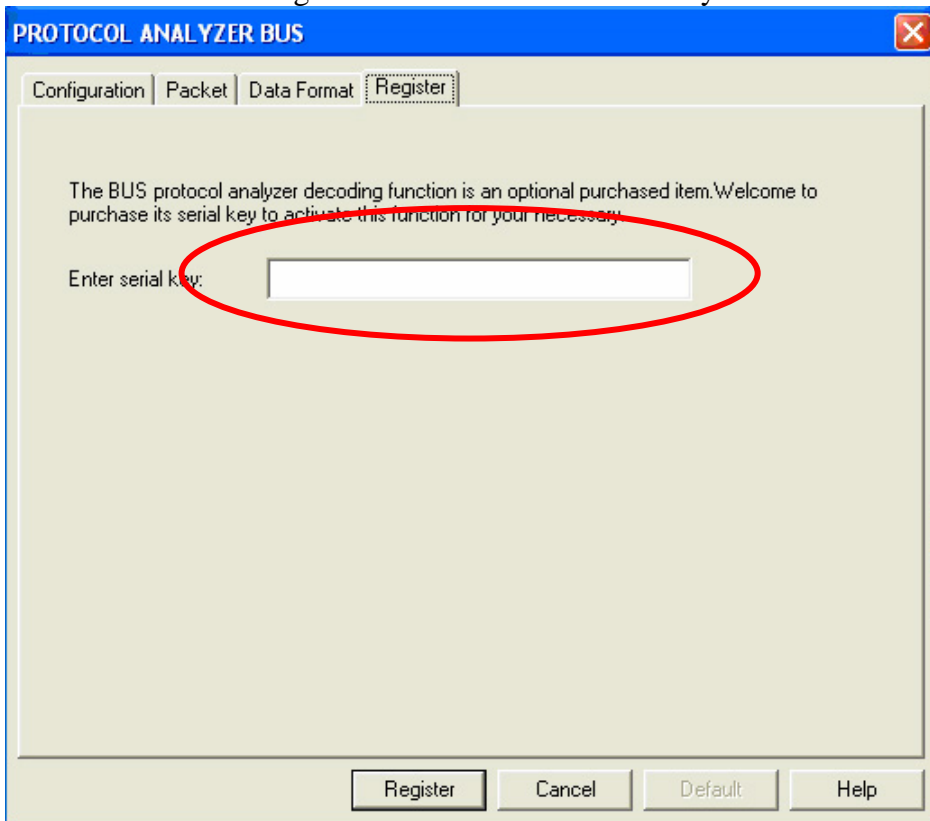
**STEP 2.** Select **Bus1**, and press **Right Key** on the mouse to list the menu, then click **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.



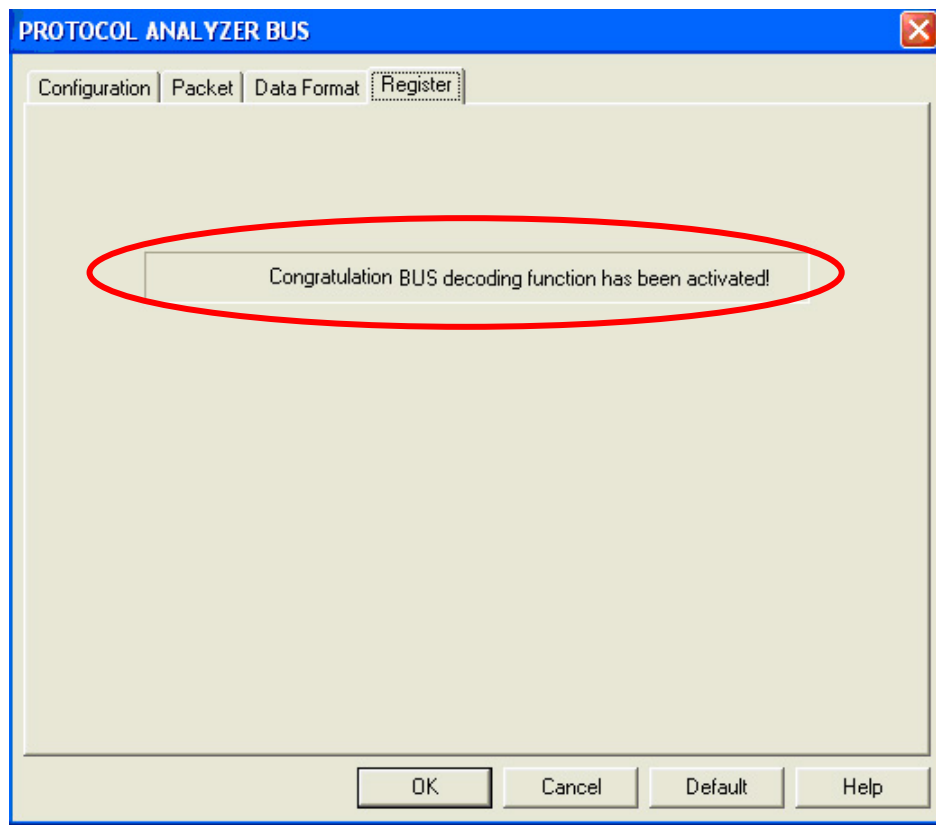
**STEP 3.** Select the Protocol Analyzer, and then choose **BUS MODULE V1.00.00 (CN01)**. Next click **Parameters Configuration** to open the Protocol Analyzer Bus dialog box.



**STEP 4.** Click the Register tab and enter the serial key of the **BUS**. Then click **Register**.



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

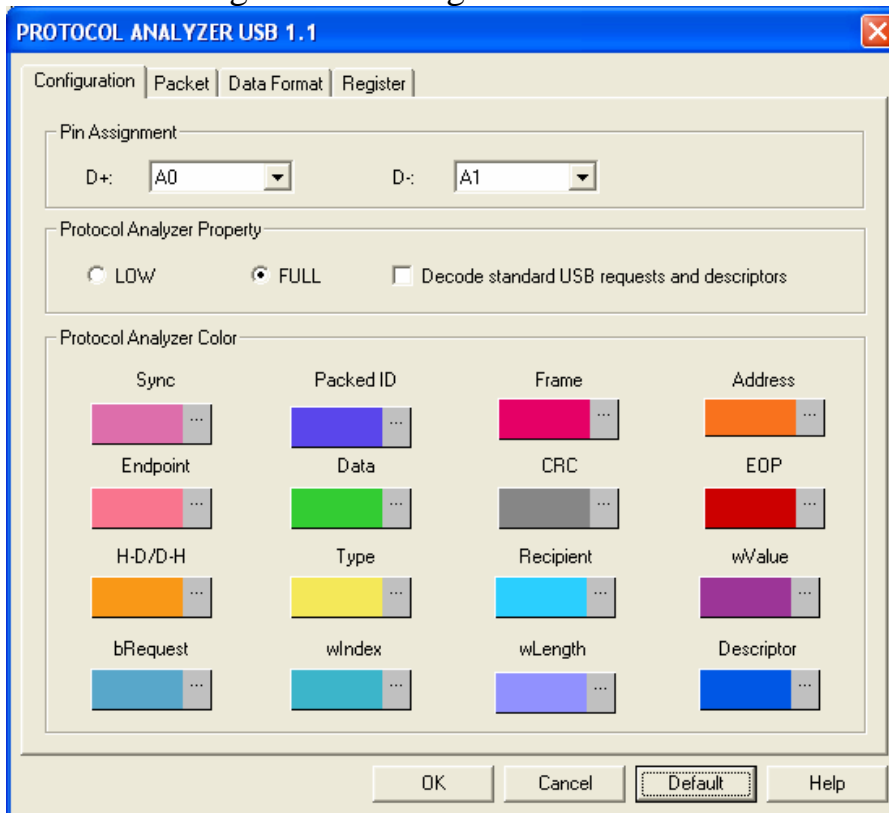


## 2 User Interface

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In the configuration, please refer to below images to select options of setting **USB 1.1**.

### USB 1.1 Configuration Dialog Box



#### **Pin Assignment:**

USB 1.1 needs two different data lines (D+ and D-) to decode the signals.

#### **Protocol Analyzer Property:**

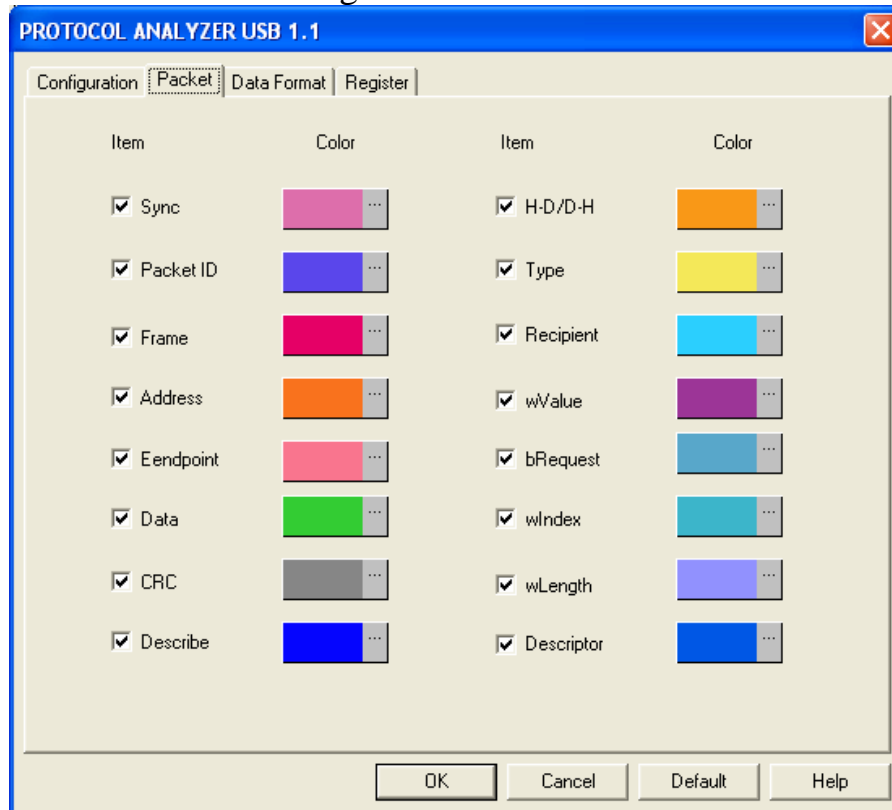
USB 1.1 can analyze two modes, **LOW** and **FULL**.

**Decode standard USB requests and descriptors:** It is selected to distinguish the Decoding Layers.

#### **Protocol Analyzer Color:**

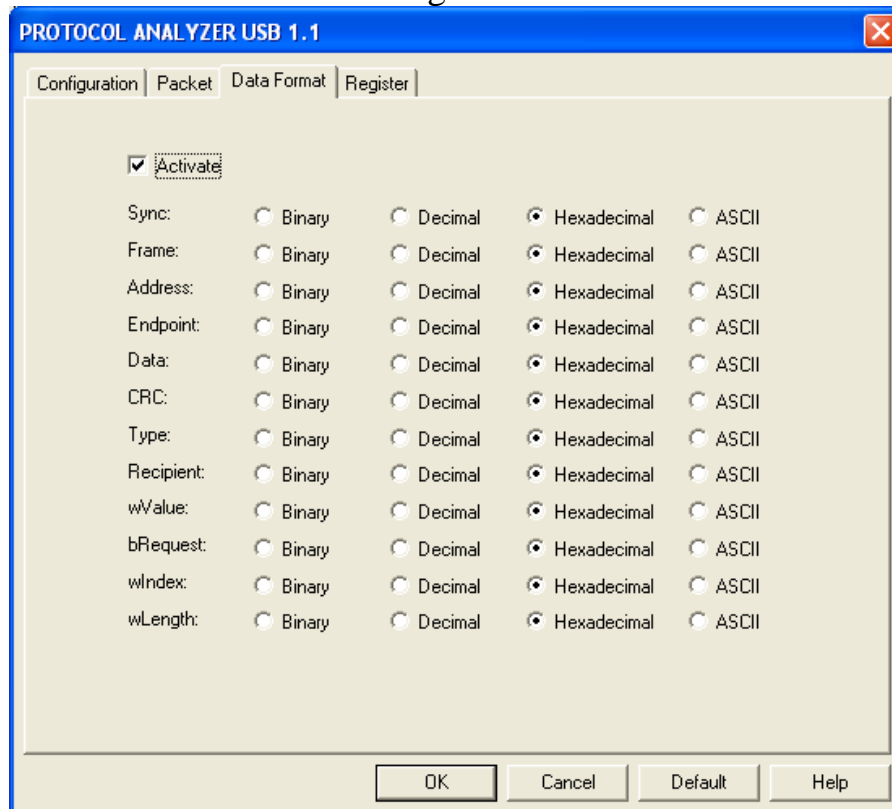
Users can vary the colors of the decoded packet.

## USB 1.1 Packet Dialog Box



In the Packet dialog box, users can vary the color of items.

## USB 1.1 Data Format Dialog Box

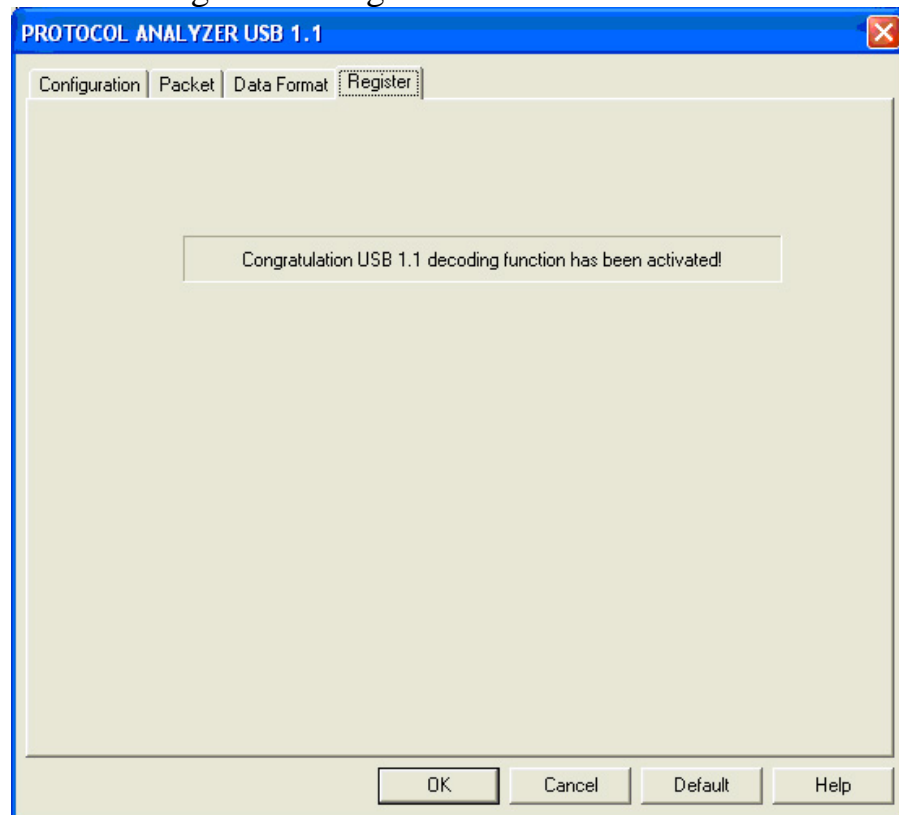


Users can set the Data Format of the Sync, Frame, Address, Endpoint, Data, CRC, Type, Recipient, wValue, bRequest, wIndex and wLength as their requirements. When selecting the option, Activate, the data format is

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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.

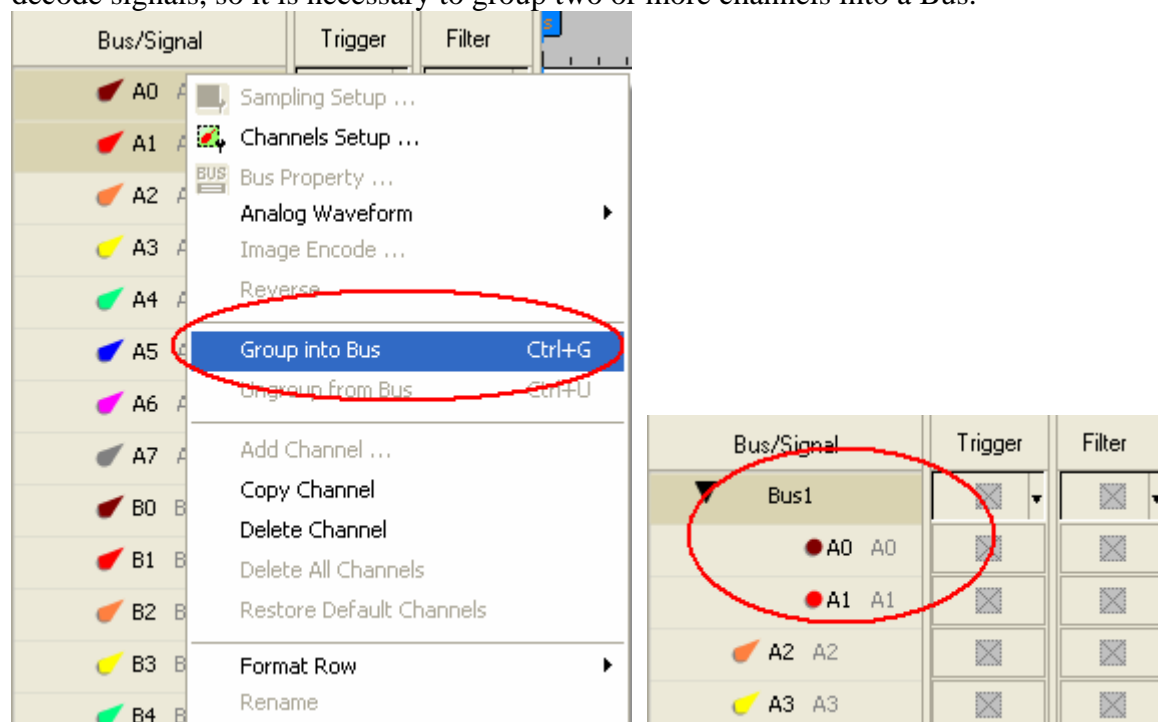
### USB 1.1 Register Dialog Box



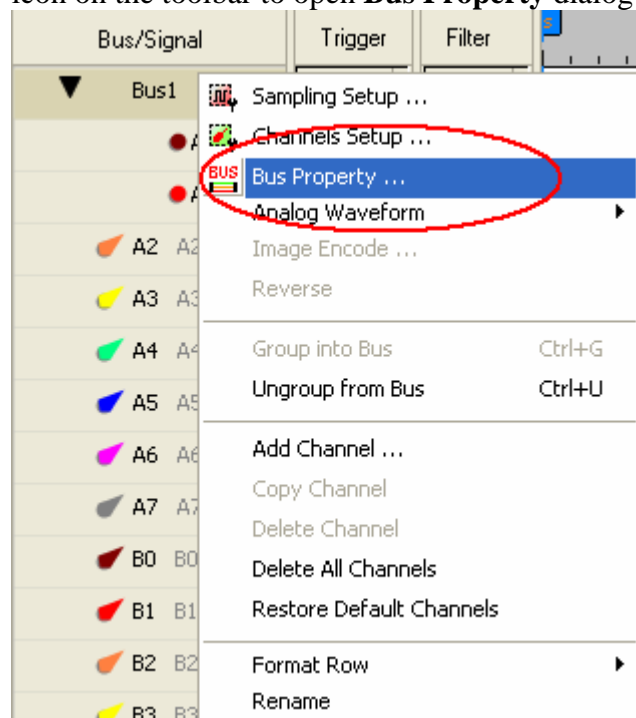


### 3 Operating Instructions

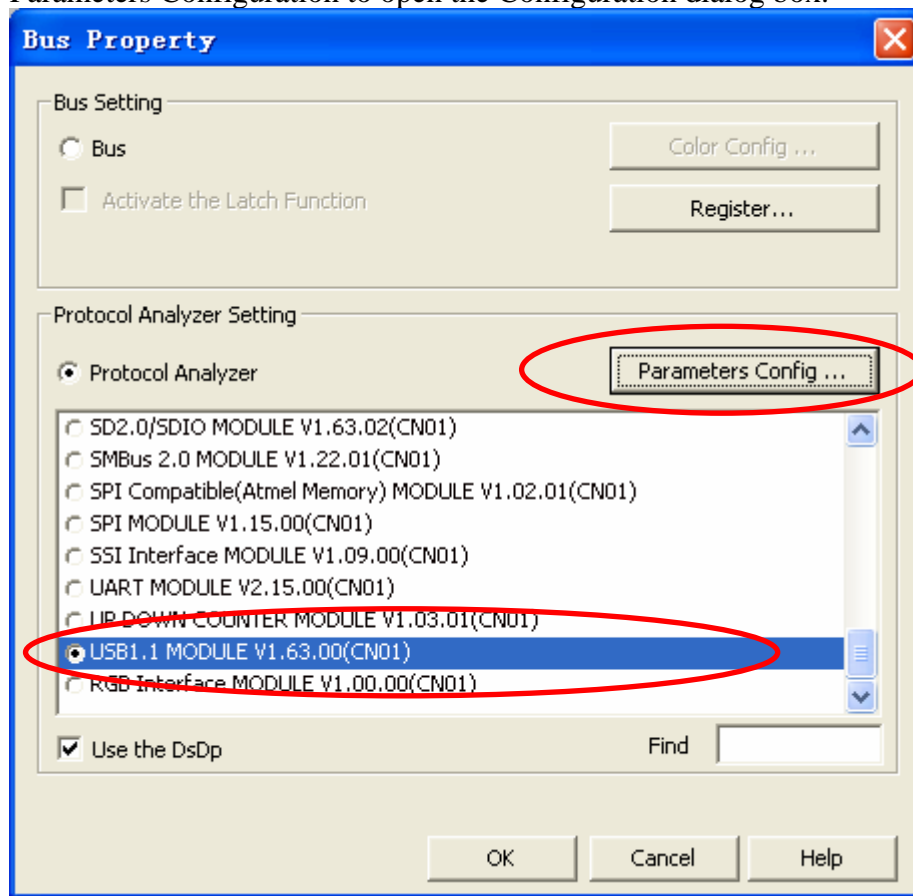
**STEP 1.** Group A0-A1 into **Bus1** by pressing the **Right Key** on the mouse. **USB 1.1** needs two channels to decode signals, so it is necessary to group two or more channels into a Bus.



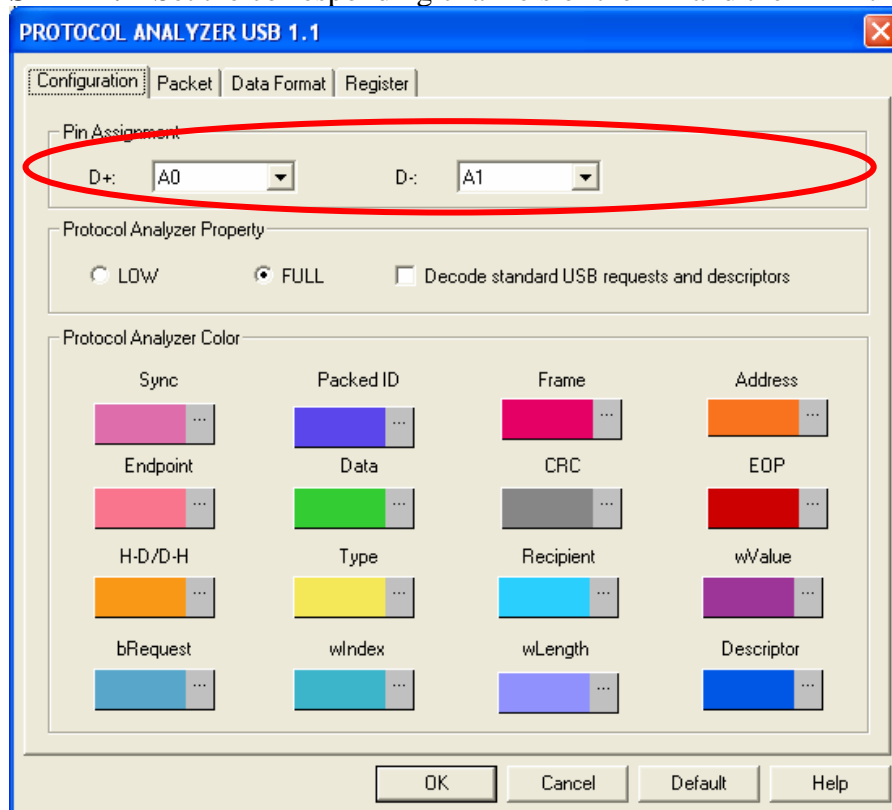
**STEP 2.** Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.



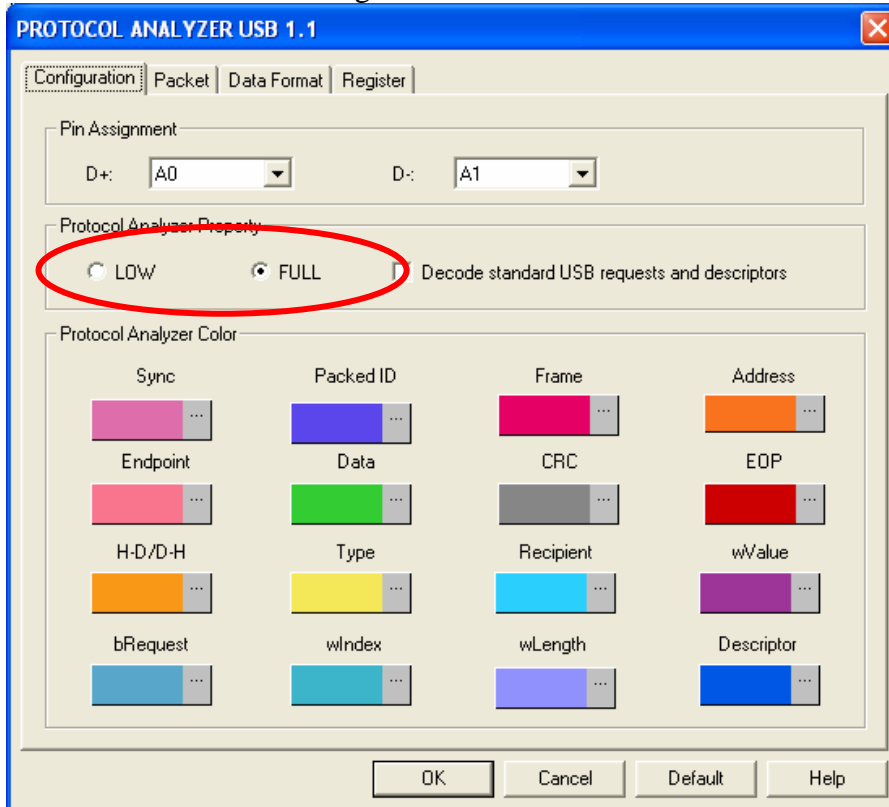
**STEP 3.** Select Protocol Analyzer, and then choose **USB 1.1 MODULE V1.63.00(CN01)**. Next click Parameters Configuration to open the Configuration dialog box.



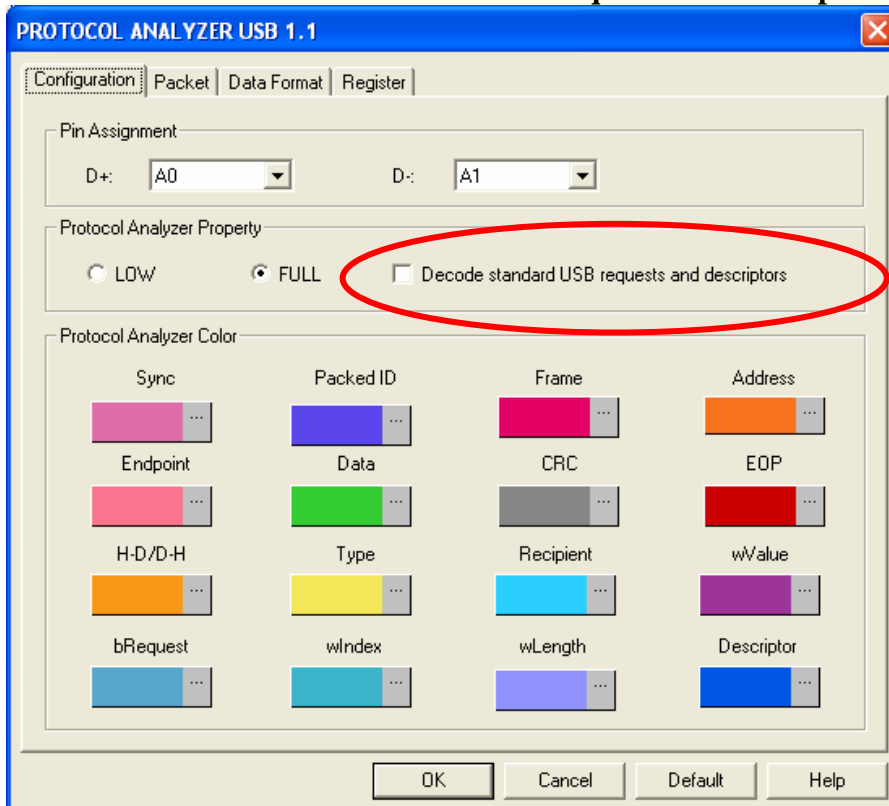
**STEP 4.** Set the corresponding channels of the D+ and the D- in the Pin Assignment.



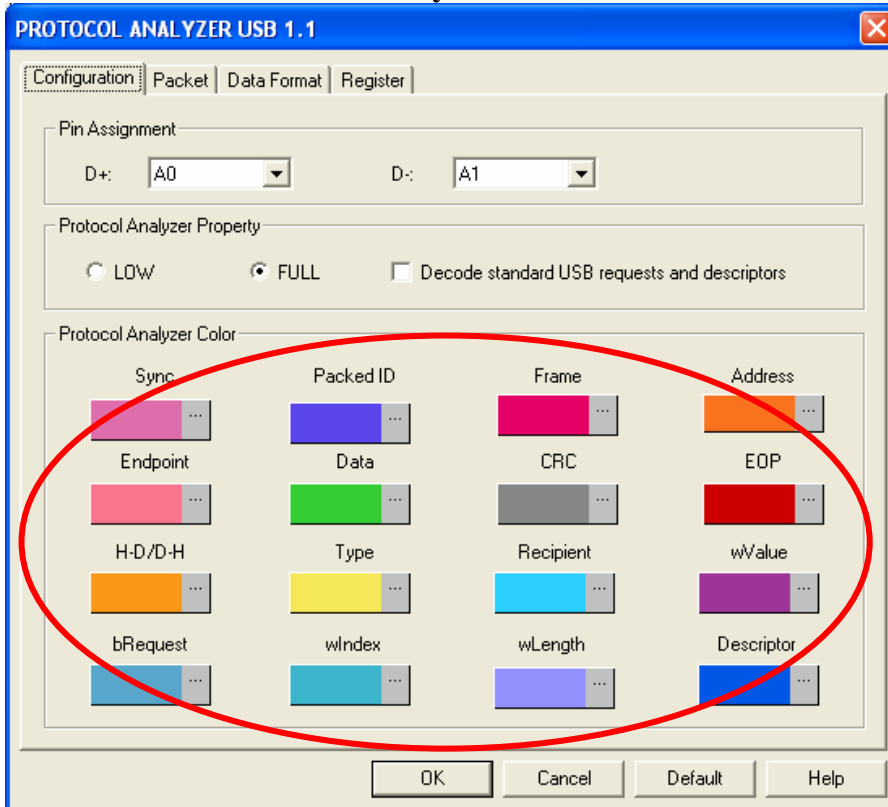
**STEP 5.** Set the Decoding Mode to LOW or FULL.



**STEP 6.** Set the **Decode standard USB requests and descriptors**.

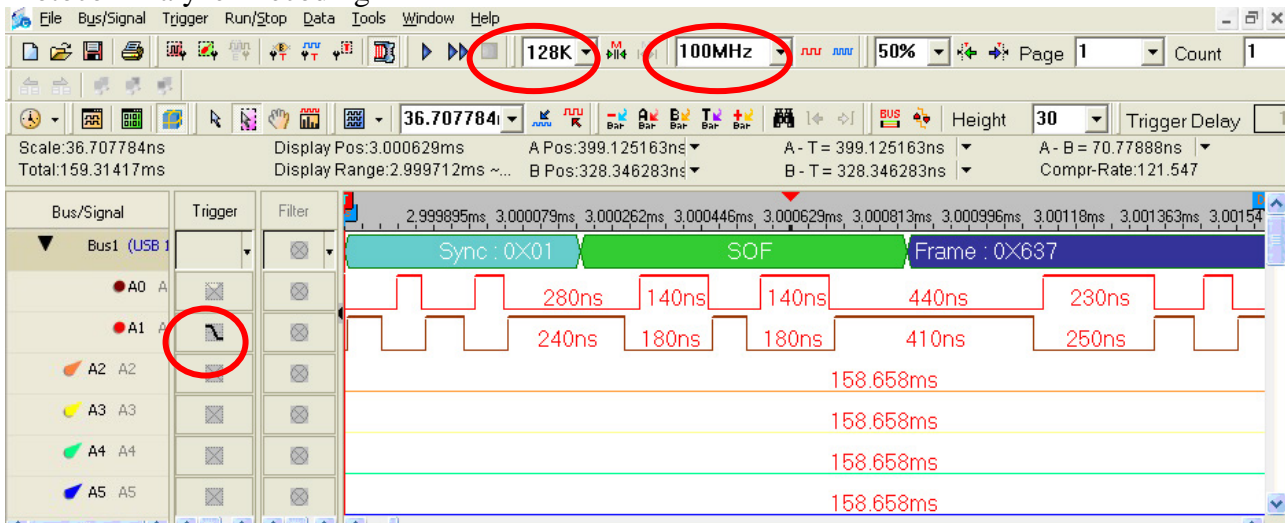


## STEP 7. Set the Protocol Analyzer Color.



**STEP 8.** Following pictures show the completion of the protocol analyzer decoding and packet list. The trigger condition is set as Falling Edge; the memory depth is 128K; the sampling frequency is 100MHz (the sampling frequency should be more than four times higher than the signal to be tested).

### Protocol Analyzer Decoding



## Packet List

