



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

# SPECIFICATION

**MODEL: B12006-DP AUX Channel 1.1**

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

**VERSION:** V1.00

| Approver |    | Check | Design |
|----------|----|-------|--------|
| GM       | PM |       |        |
|          |    |       |        |

| Customer Confirm |
|------------------|
|                  |

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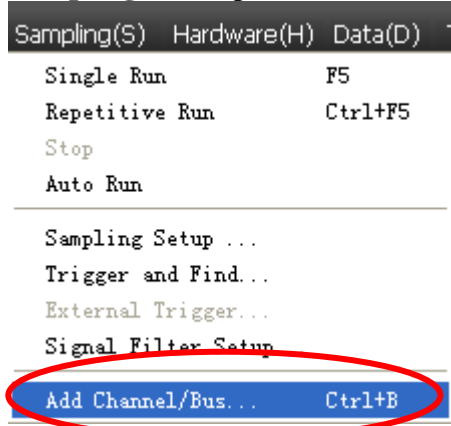
## 1 Software Register

Please register the software as the following steps:

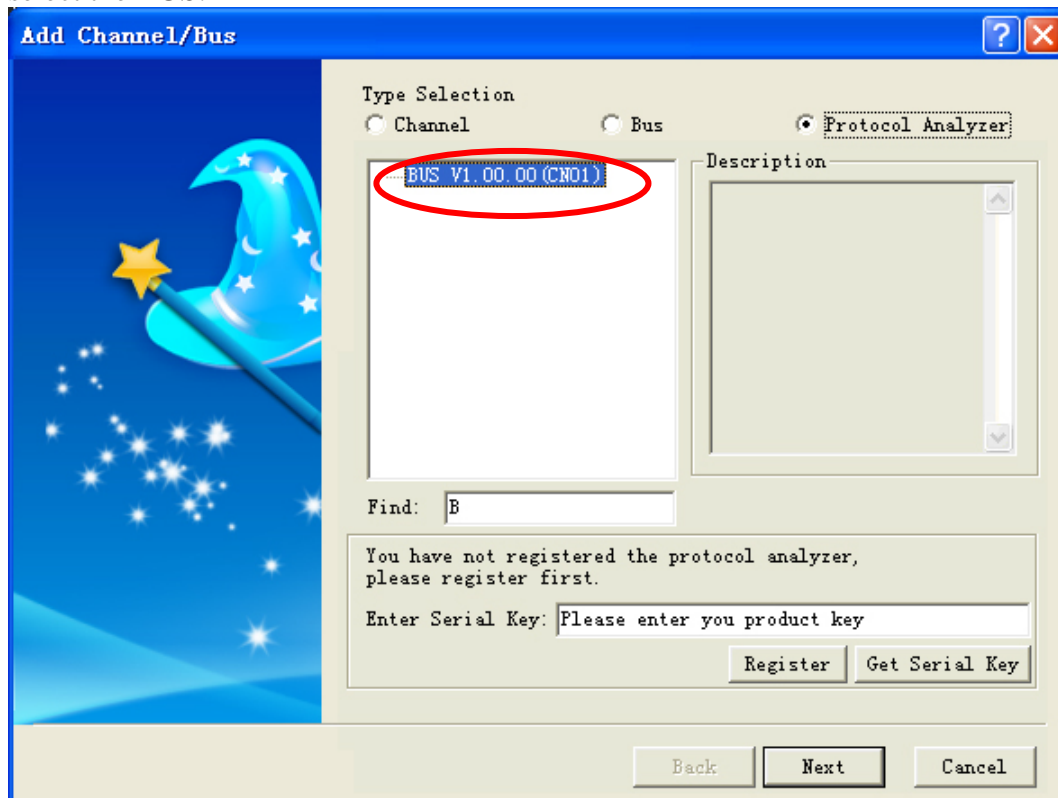
※ Remark1: The registration steps for all protocol analyzers are the same; you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.

※ 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.

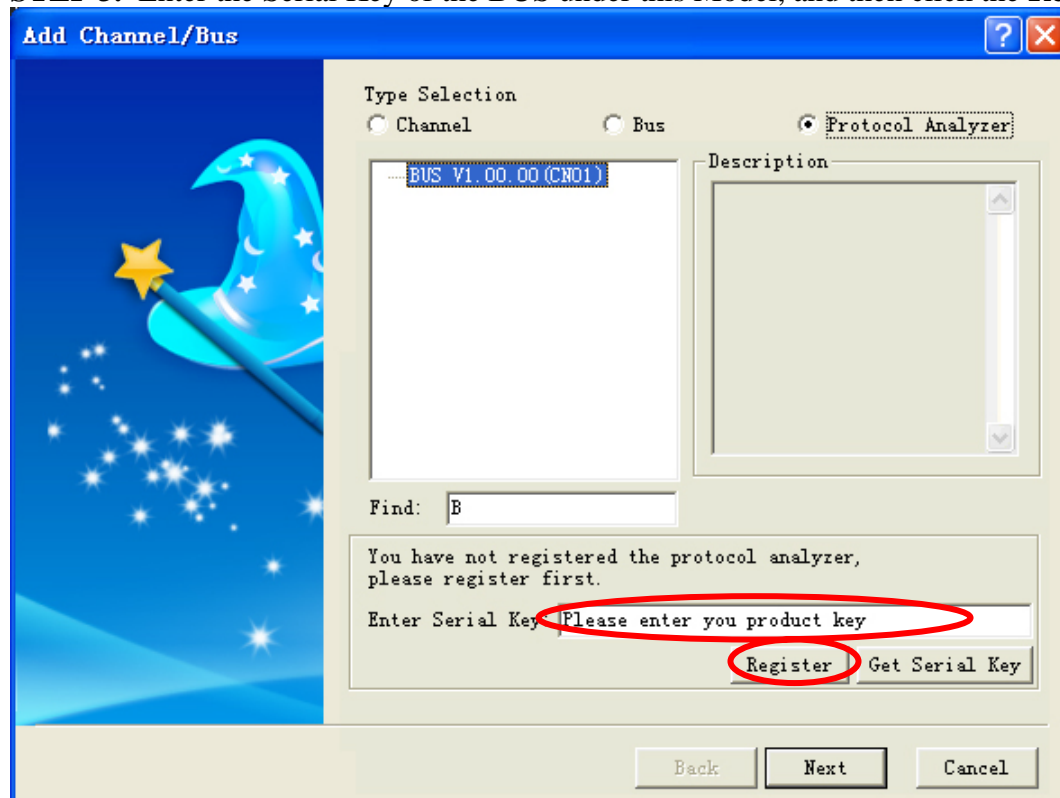
**STEP 1.** Open the Logic Analyzer and select the **Add Channel/Bus** item on the pull-down menu of the **Sampling(S)** to open the **Add Channel/Bus** dialog box.



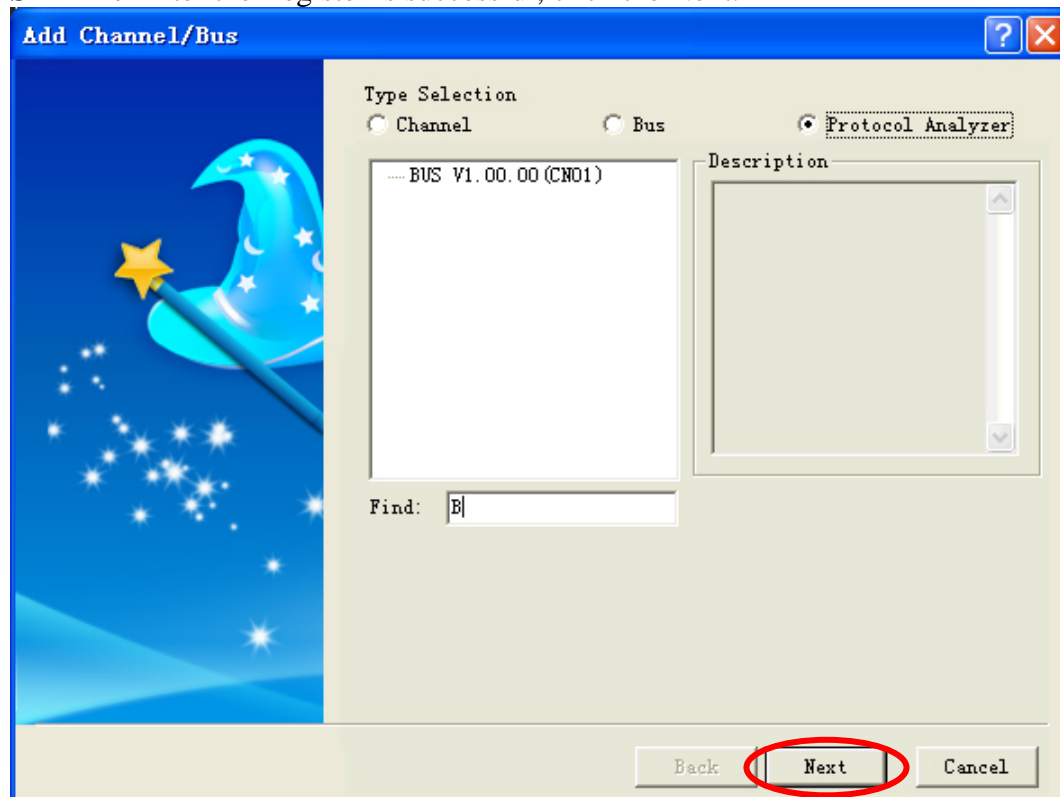
**STEP 2.** Select Protocol Analyzer item in the Add Channel/Bus dialog box, expand the Other Type, and select the BUS.



**STEP 3.** Enter the Serial Key of the BUS under this Model, and then click the **Register**.



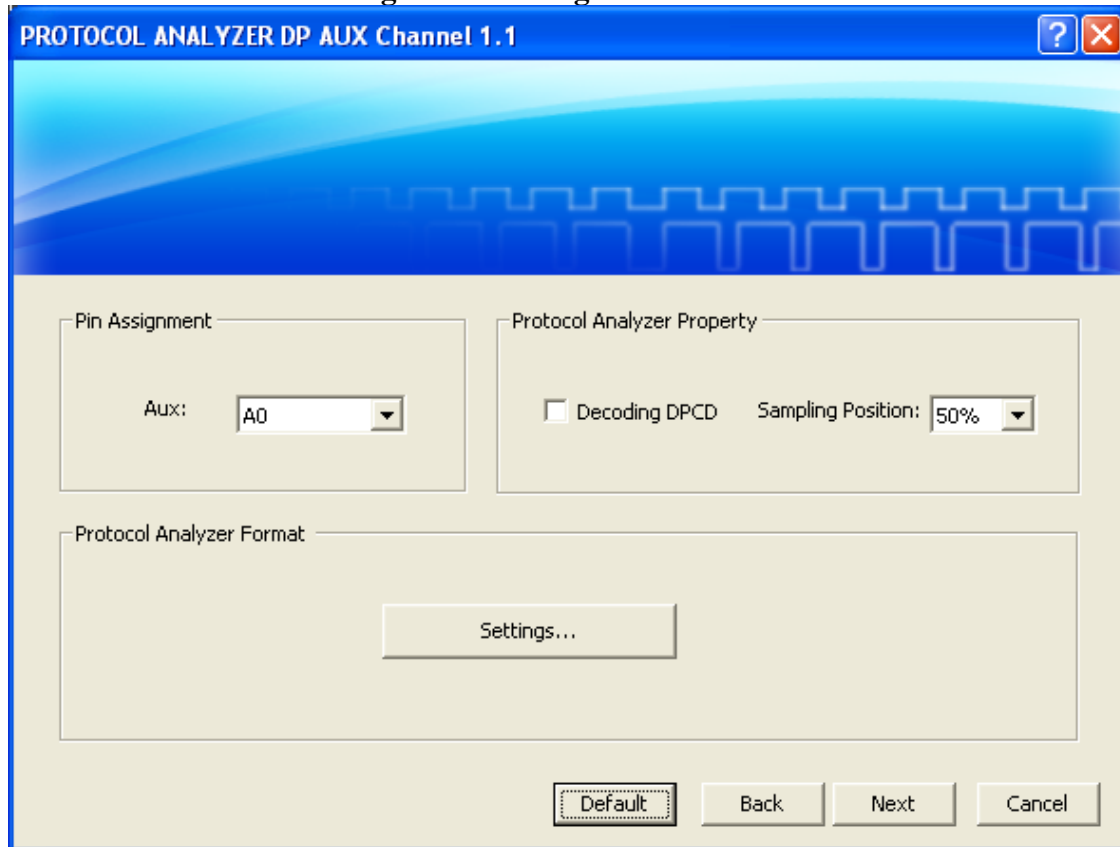
**STEP 4.** After the Register is successful, click the Next.



## 2 User Interface

Please refer to the below images to select options of DP AUX Channel 1.1 module.

### DP AUX Channel 1.1 Configuration dialog box



#### Pin Assignment

Protocol Analyzer DP AUX Channel 1.1 only needs one channel to decode, which is A0 by default.

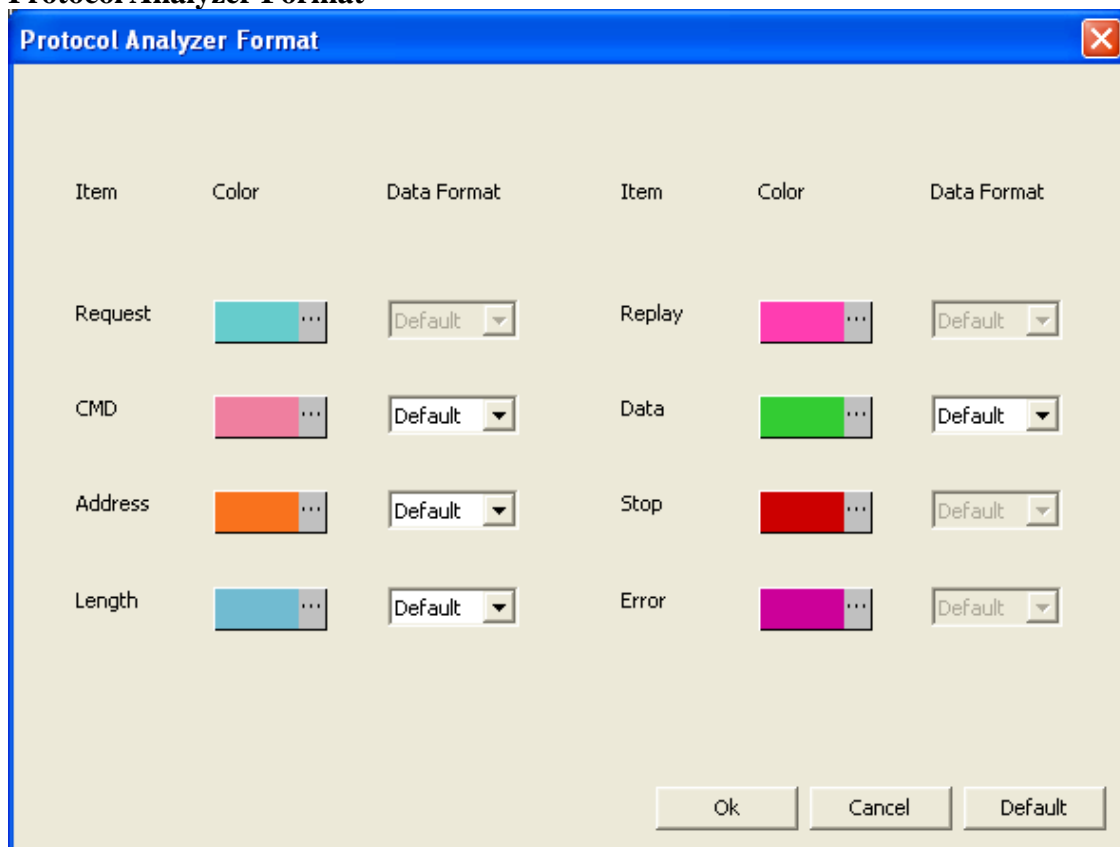
#### Decoding DPCD

Decode in the DPCD form. It is not selected by default.




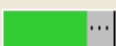




#### Sampling Position

There are 0%, 5%, 10%, 15%, 20%, 25%, 30%, 35%, 40%, 45%, 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%, 95% and 100% to select; it is 50% by default.

## Protocol Analyzer Format



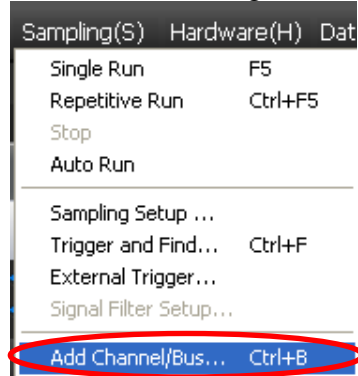
The dialog box titled "Protocol Analyzer Format" contains a table for configuring packet items. Each item has a color selection button (a colored square followed by three dots) and a data format dropdown menu (labeled "Default" with a downward arrow). The items are arranged in two columns. At the bottom right are three buttons: "Ok", "Cancel", and "Default".

| Item    | Color   | Data Format | Item   | Color   | Data Format |
|---------|---|-------------|--------|---|-------------|
| Request |  | Default     | Replay |  | Default     |
| CMD     |  | Default     | Data   |  | Default     |
| Address |  | Default     | Stop   |  | Default     |
| Length  |  | Default     | Error  |  | Default     |

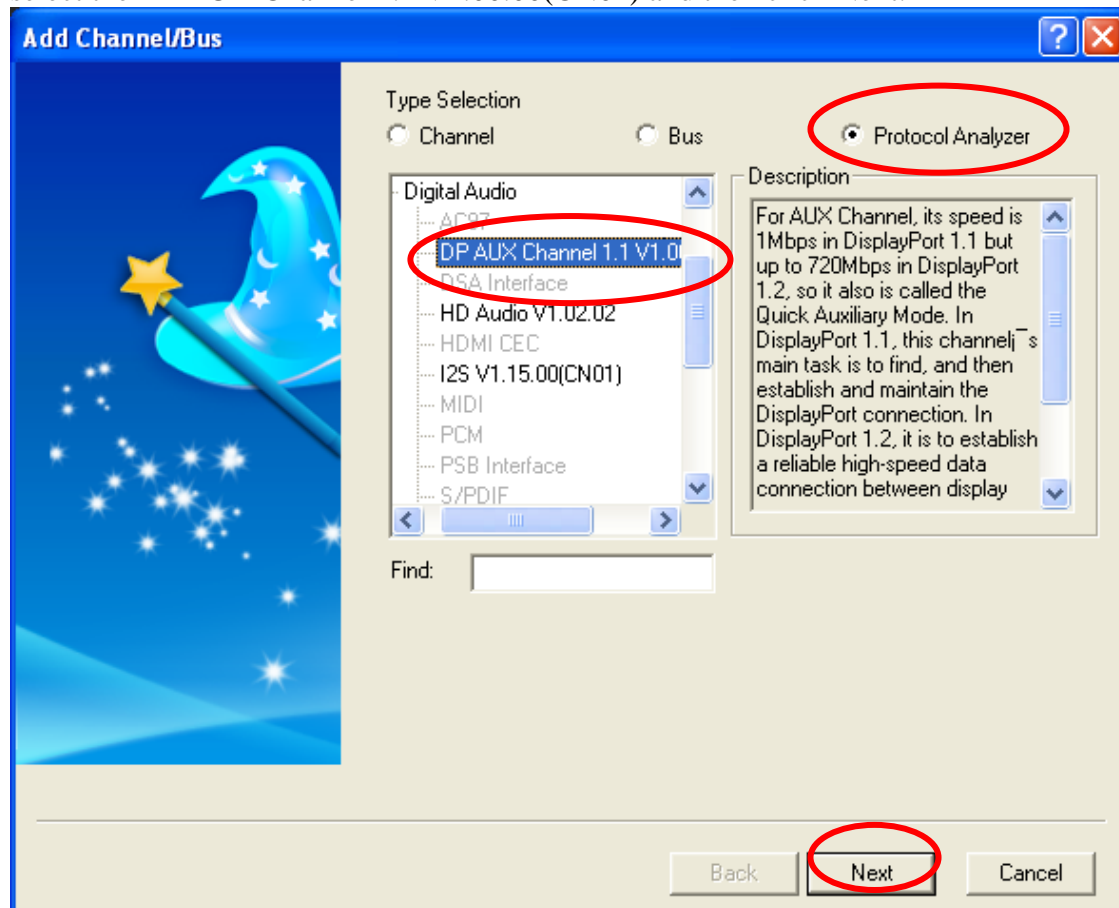
Users can set the color of the packet as their requirements. The items (CMD, Address, Length and Data) can be set as Binary, Decimal, Hexadecimal, ASCII or Default. And the data format of these items in the Waveform Display Area and Packet List is controlled by the Protocol Analyzer. The default data format is controlled by the main program and the data format of these items is Default.

### 3 Operating Instructions

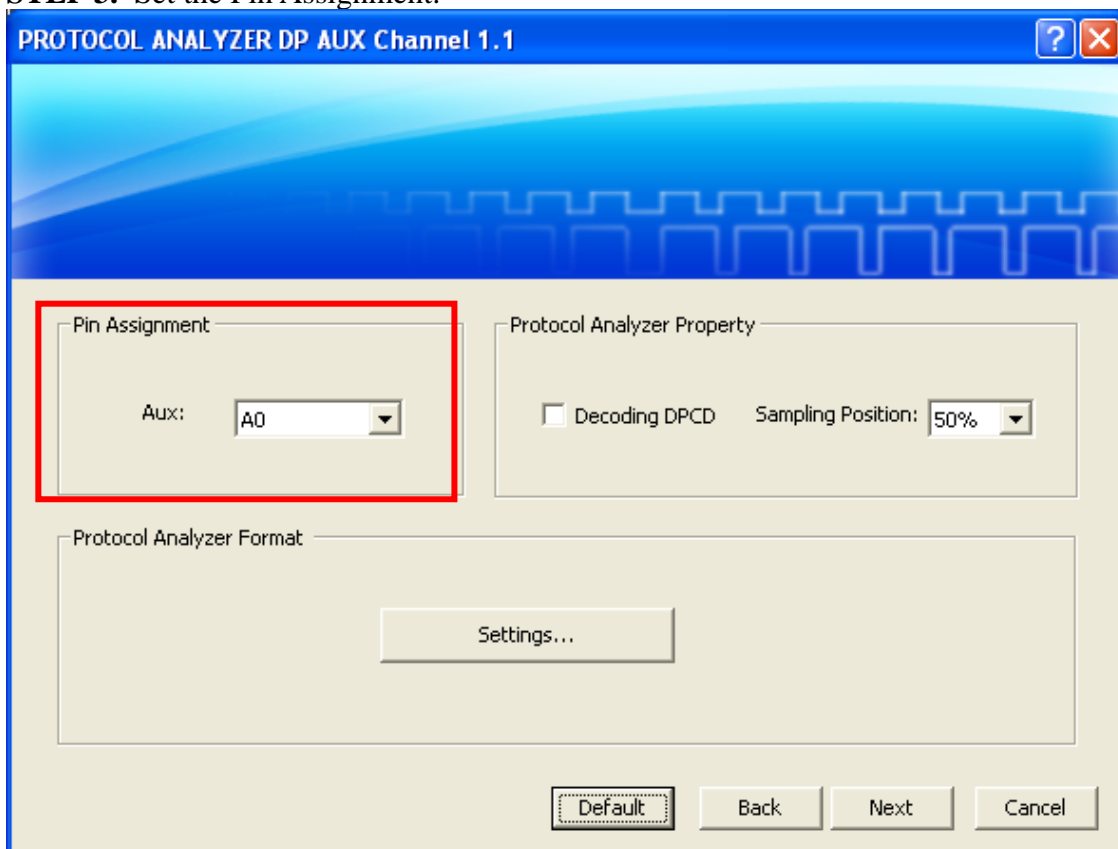
**STEP 1.** Select the Add Channel/Bus item on the pull-down menu of the Sampling(S) to open the Add Channel/Bus dialog box.



**STEP 2.** Select the Protocol Analyzer item in the Add Channel/Bus dialog box, expand the Digital Audio, select the DP AUX Channel 1.1 V1.00(CN01) and then click Next.



**STEP 3.** Set the Pin Assignment.



PROTOCOL ANALYZER DP AUX Channel 1.1

Pin Assignment

Aux: A0

Protocol Analyzer Property

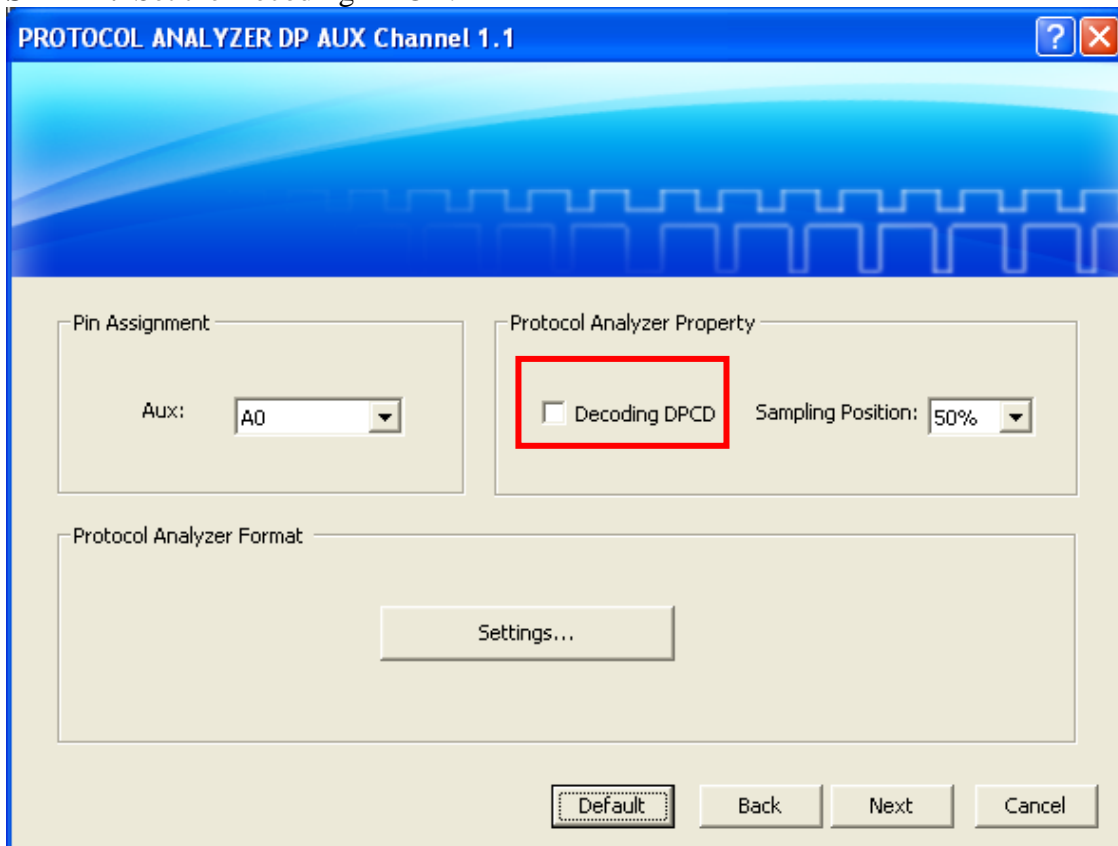
☐ Decoding DPCD Sampling Position: 50%

Protocol Analyzer Format

Settings...

Default Back Next Cancel

**STEP 4.** Set the Decoding DPCD.



PROTOCOL ANALYZER DP AUX Channel 1.1

Pin Assignment

Aux: A0

Protocol Analyzer Property

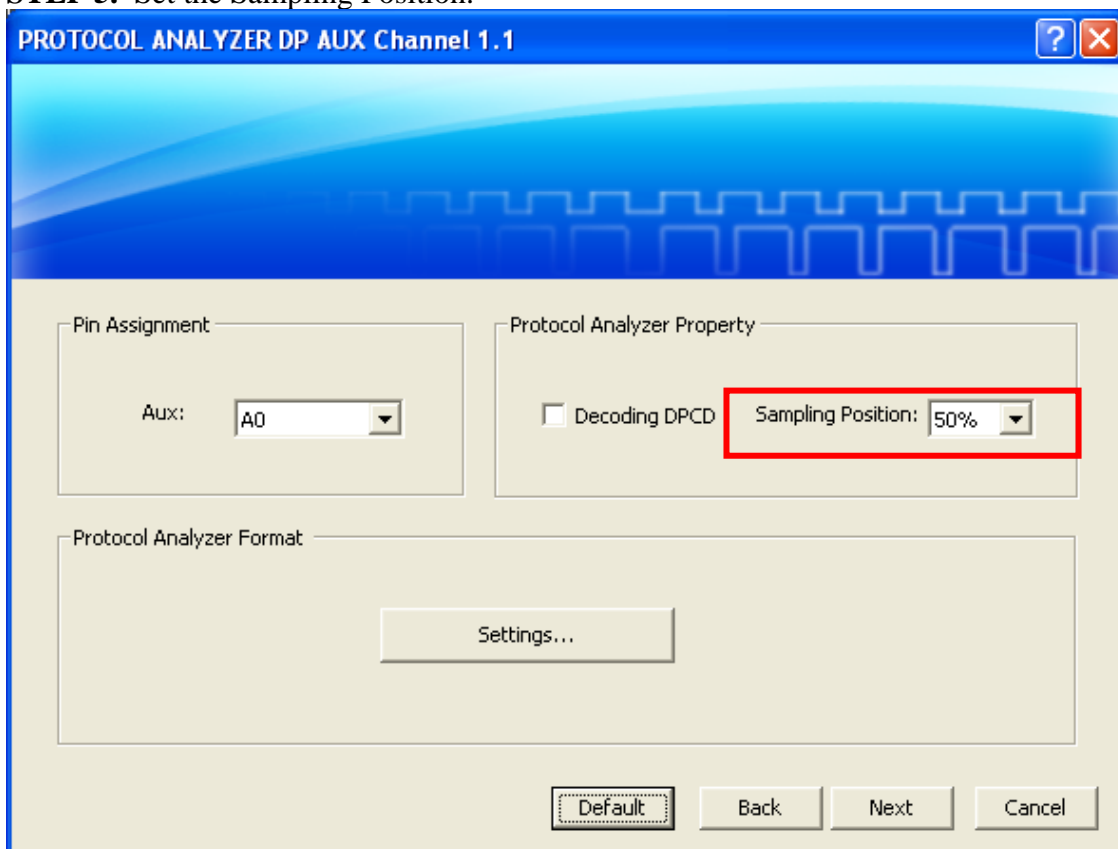
☐ Decoding DPCD Sampling Position: 50%

Protocol Analyzer Format

Settings...

Default Back Next Cancel

**STEP 5.** Set the Sampling Position.



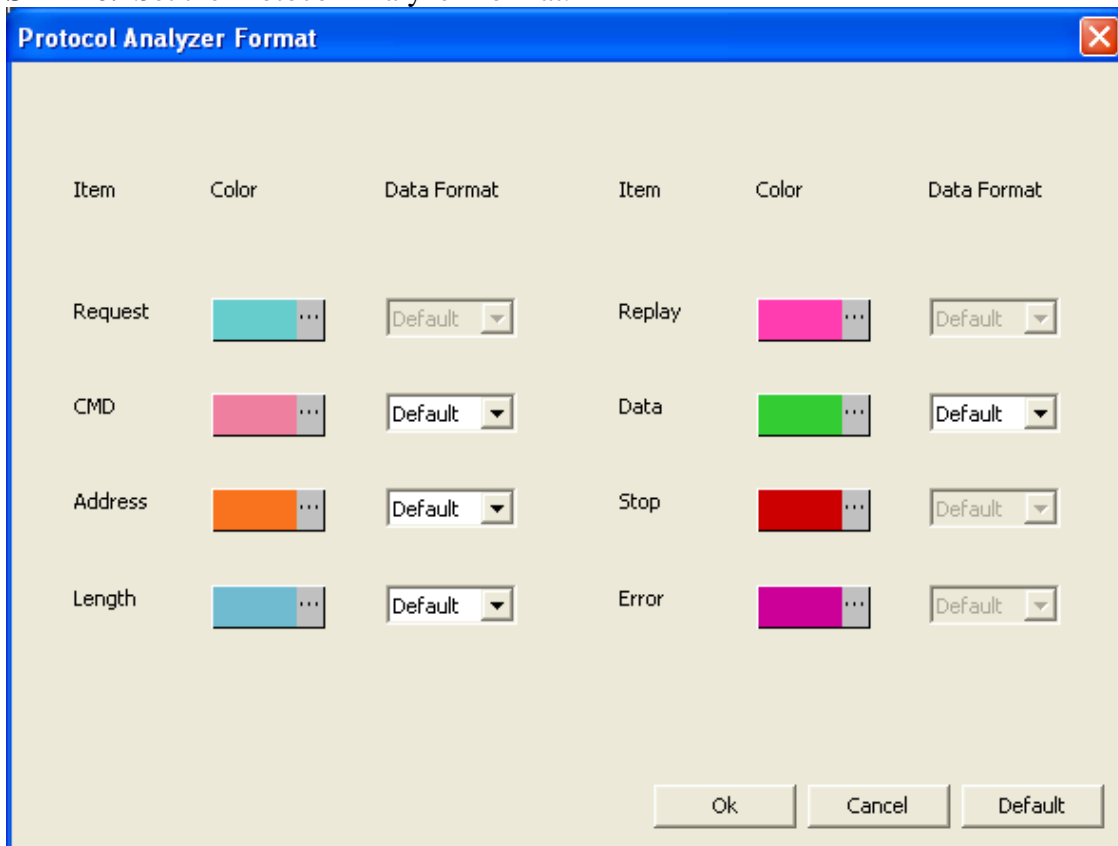
**PROTOCOL ANALYZER DP AUX Channel 1.1**

Pin Assignment: Aux:

Protocol Analyzer Property: ☐ Decoding DPCD Sampling Position:

Protocol Analyzer Format:

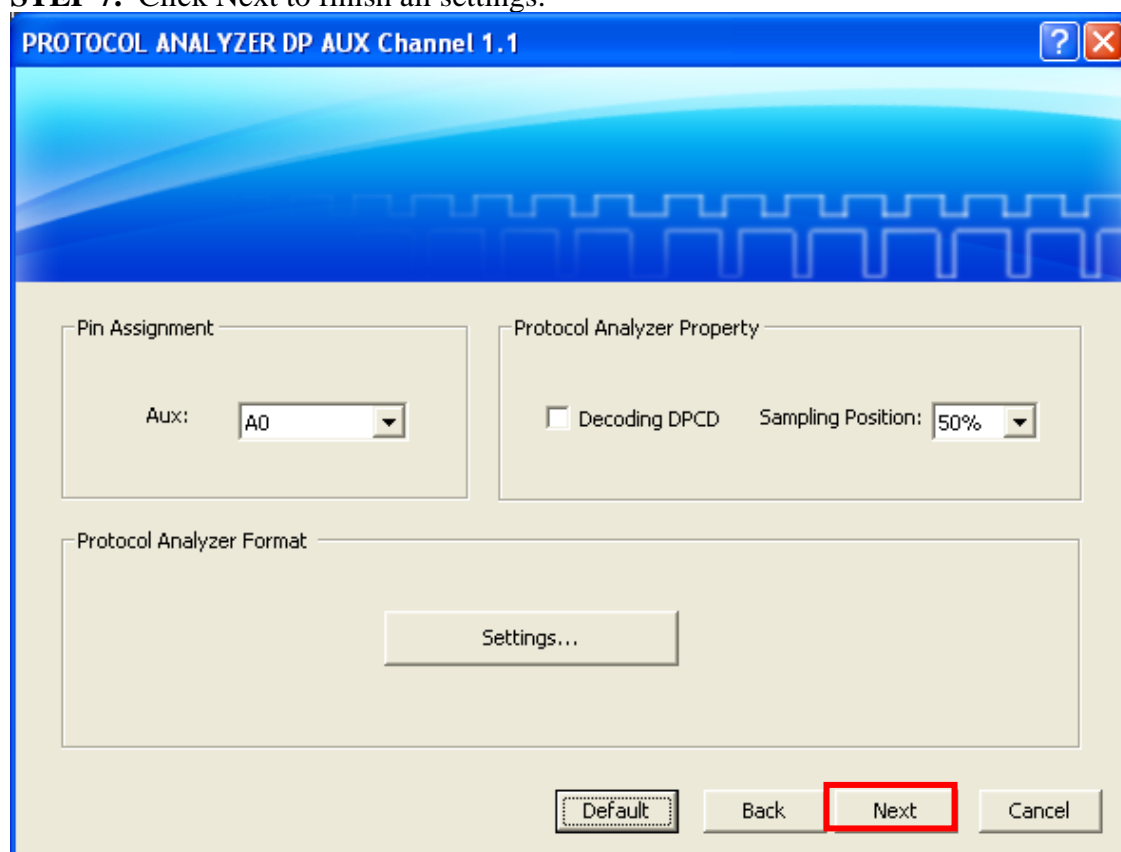
**STEP 6.** Set the Protocol Analyzer Format.



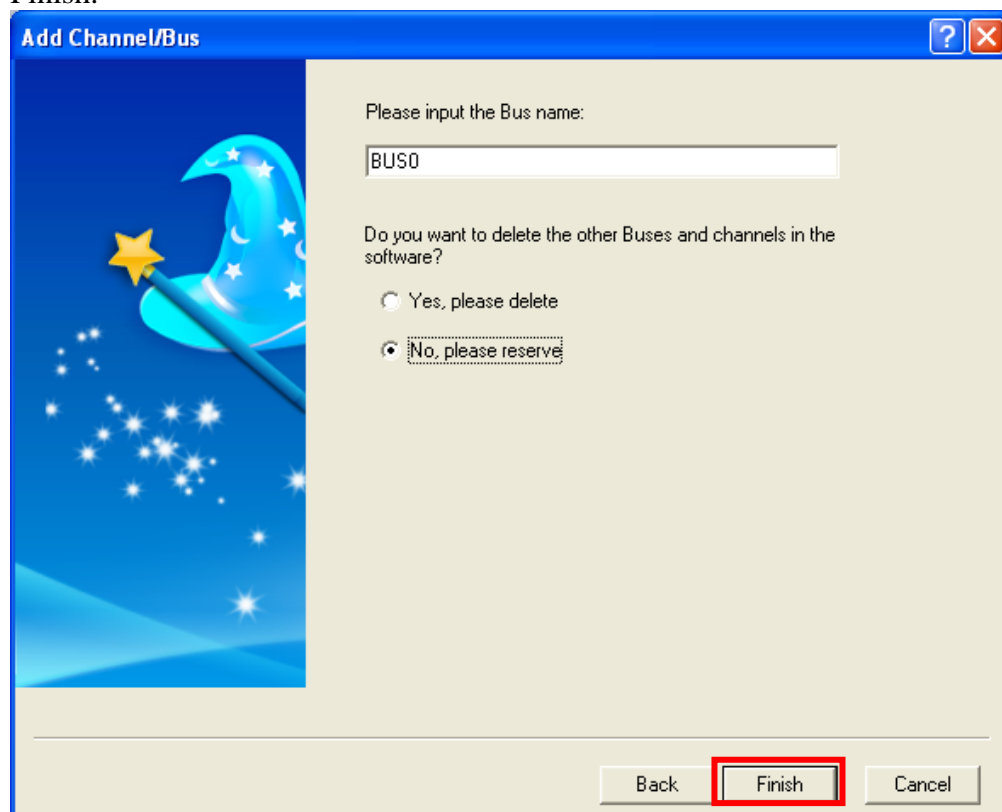
**Protocol Analyzer Format**

| Item    | Color | Data Format                          | Item   | Color | Data Format                          |
|---------|-------|--------------------------------------|--------|-------|--------------------------------------|
| Request |       | <input type="text" value="Default"/> | Replay |       | <input type="text" value="Default"/> |
| CMD     |       | <input type="text" value="Default"/> | Data   |       | <input type="text" value="Default"/> |
| Address |       | <input type="text" value="Default"/> | Stop   |       | <input type="text" value="Default"/> |
| Length  |       | <input type="text" value="Default"/> | Error  |       | <input type="text" value="Default"/> |

**STEP 7.** Click Next to finish all settings.



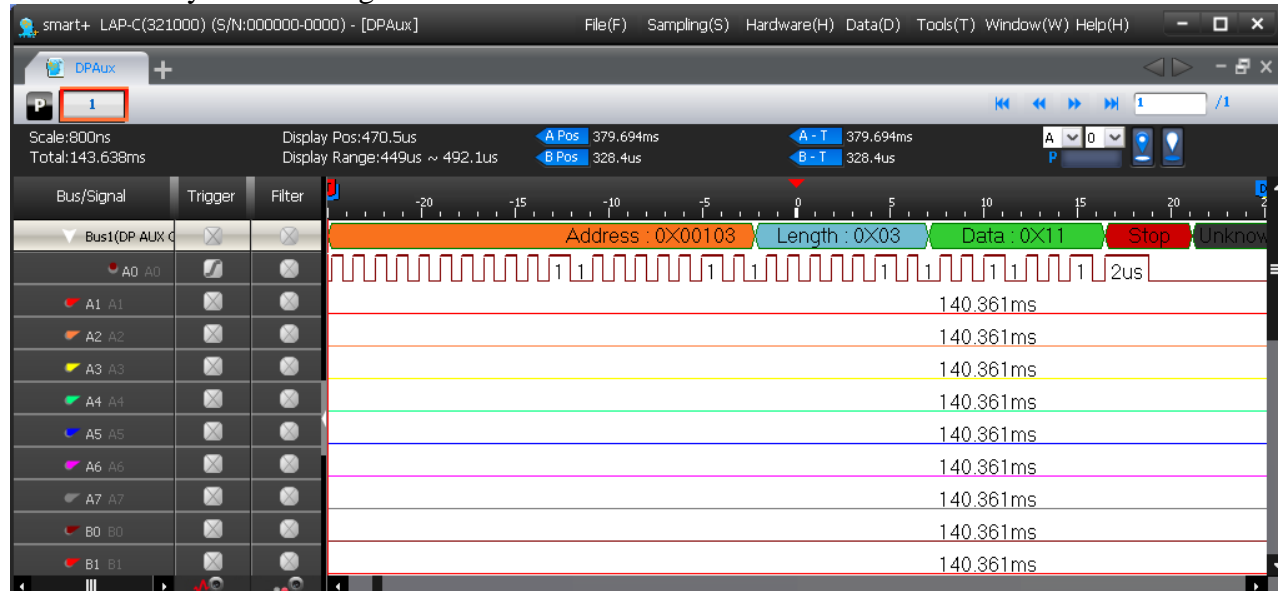
**STEP 8.** Please enter the Bus Name, select “Yes, please delete” or “No, please reserve” and then click Finish.





**STEP 9.** Following pictures show the completion of the protocol analyzer decoding and packet list. The trigger condition is set as Rising Edge, the memory depth is 1M and the sampling frequency is 10MHz (the sampling frequency should be more than four times higher than the signal to be tested).

### Protocol Analyzer Decoding



### Packet List

