



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

# SPECIFICATION

**MODEL:B10001-LAP-S2Cwire/AS2Cwire-M**

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

**VERSION:** V1.01

Approver		Check	Design
GM	PM		

Customer Confirm

\*Please fax the file to Zeroplus Technology after signing.

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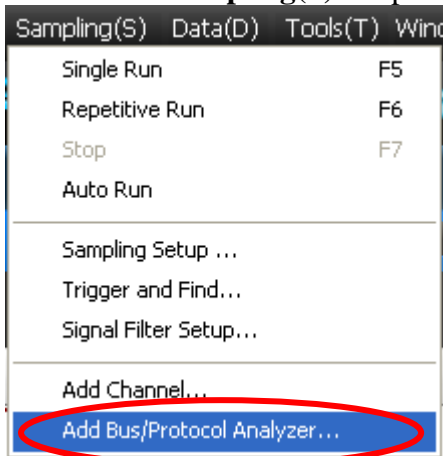
## 1 Software Register

Please register the software as the following steps:

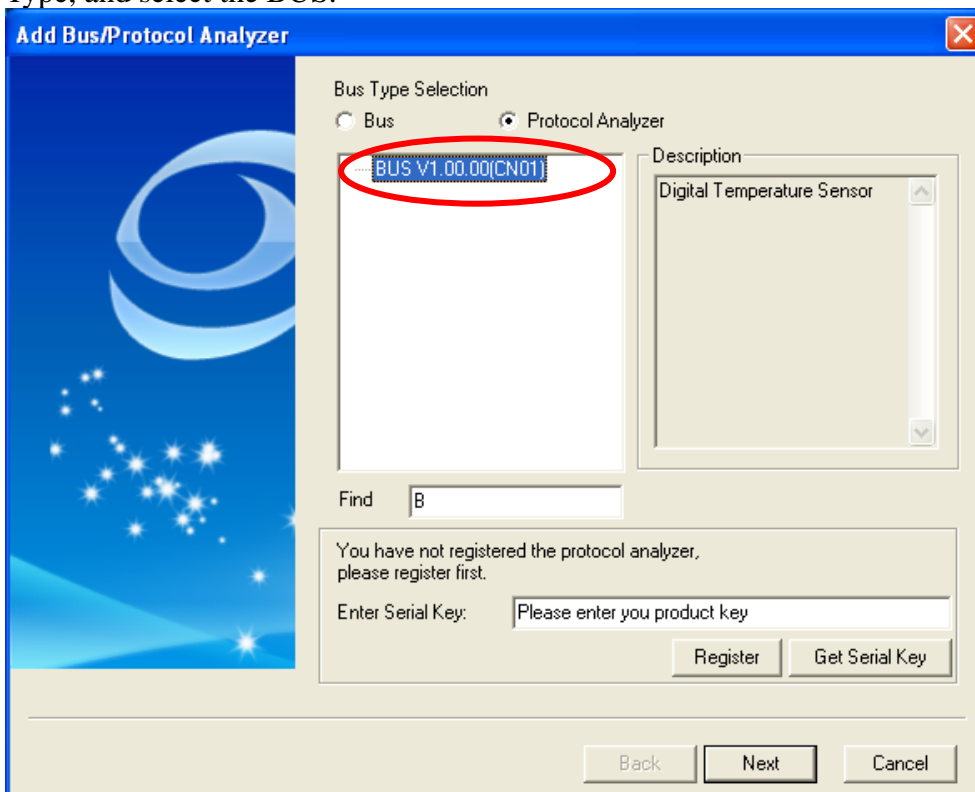
※ Remark1: The registration steps for all protocol analyzers are the same; you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.

※ 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.

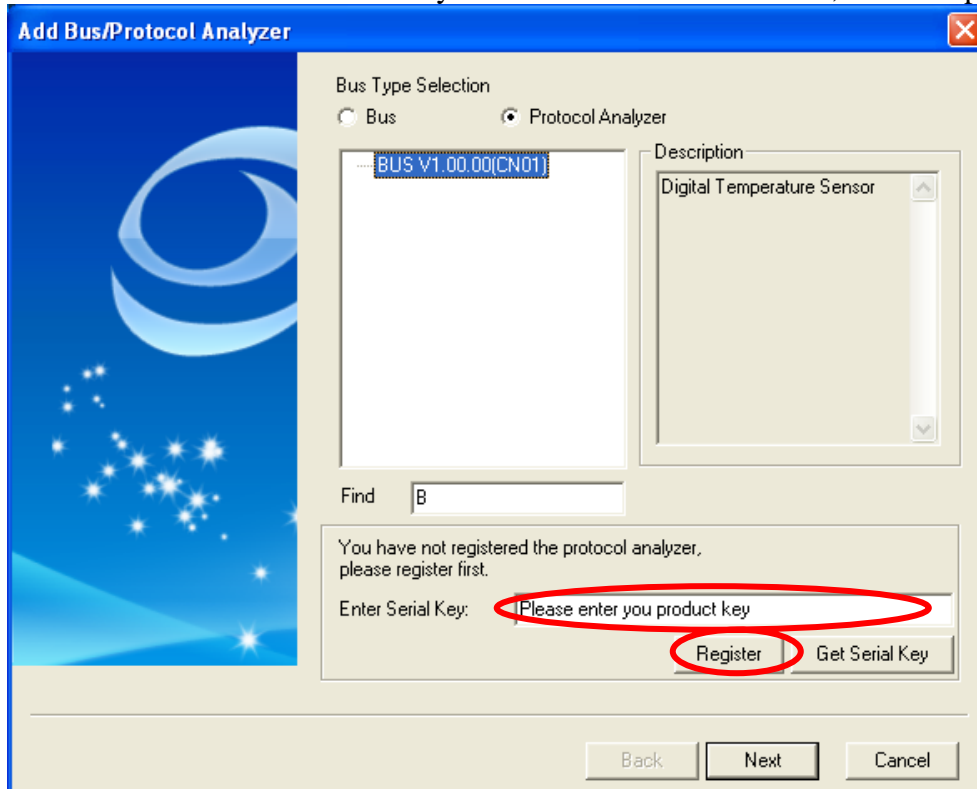
**STEP 1.** Open the Logic Analyzer and select the **Add Bus/Protocol Analyzer** item on the pull-down menu of the **Sampling(S)** to open the **Add Bus/Protocol Analyzer** dialog box.



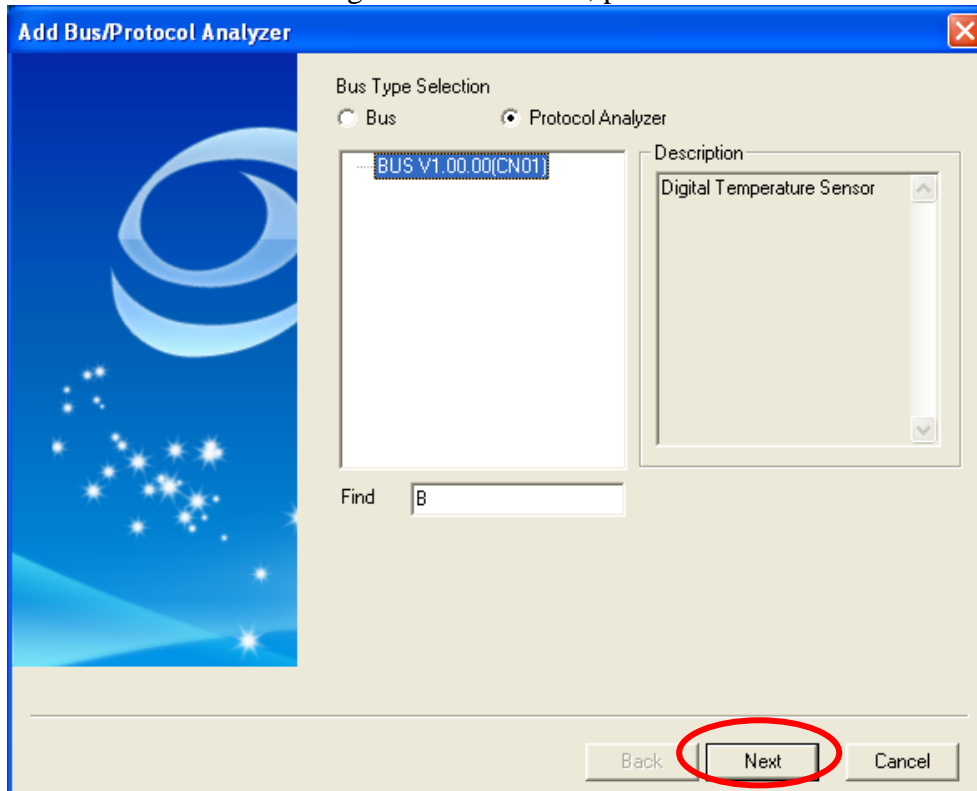
**STEP 2.** Select Protocol Analyzer item in the Add Bus/Protocol Analyzer dialog box, expand the Other Type, and select the BUS.



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



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





## 2. User Interface

In the configuration, please refer to below images to select options of **S2Cwire/AS2Cwire** module.

### S2Cwire/AS2Cwire Configuration Dialog Box

#### **Pin Assignment:**

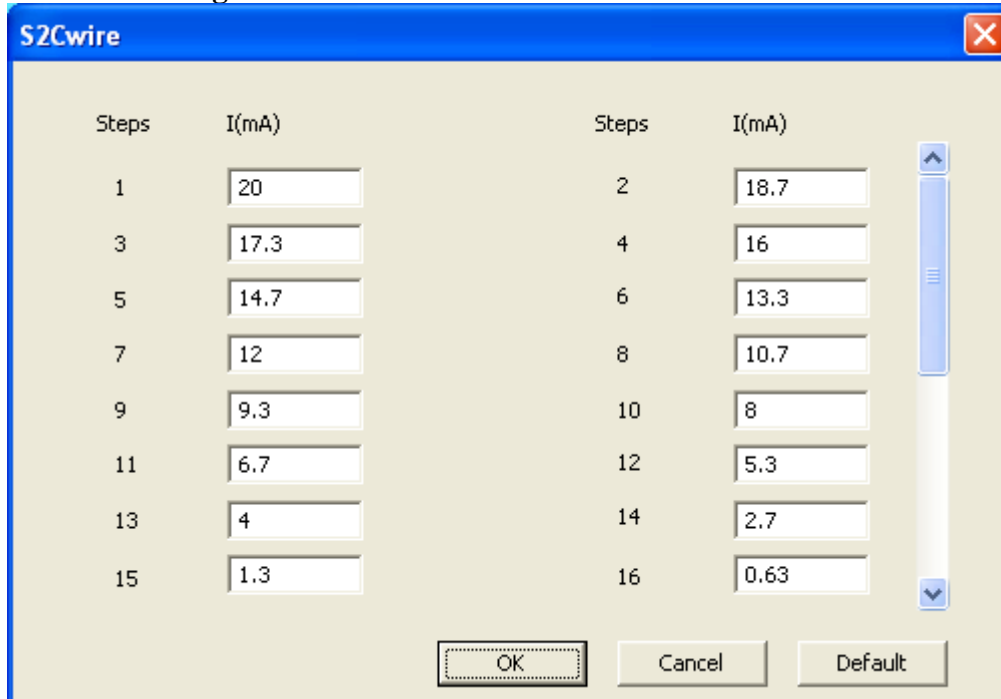
S2Cwire/AS2Cwire only needs one channel to decode signals.

**Protocol Analyzer Format:** Users can set the color of the packet as their requirements.

**Protocol Analyzer Property:** Users can only select one item at one time.



**S2Cwire Settings:** Users can set the Current Values of the Data1 ~Data16 as their requirements.

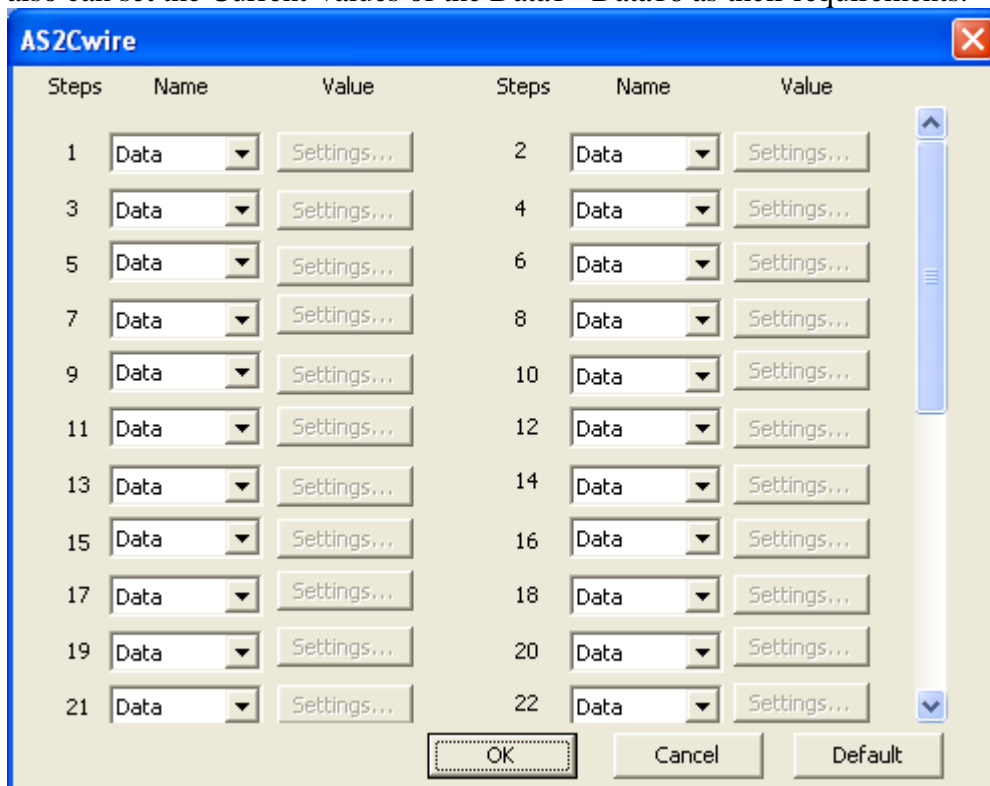


The S2Cwire Settings dialog box displays a table for configuring current values for 16 steps. The table has two columns: 'Steps' and 'I(mA)'. The values for each step are as follows:

Steps	I(mA)
1	20
3	17.3
5	14.7
7	12
9	9.3
11	6.7
13	4
15	1.3
2	18.7
4	16
6	13.3
8	10.7
10	8
12	5.3
14	2.7
16	0.63

At the bottom of the dialog, there are three buttons: OK, Cancel, and Default.

**AS2Cwire Settings:** Users can decode the seventeen Rising Edges as the Address0 or Address1, and they also can set the Current Values of the Data1 ~Data16 as their requirements.



The AS2Cwire Settings dialog box displays a table for configuring current values for 22 steps. The table has three columns: 'Steps', 'Name', and 'Value'. The values for each step are as follows:

Steps	Name	Value
1	Data	Settings...
3	Data	Settings...
5	Data	Settings...
7	Data	Settings...
9	Data	Settings...
11	Data	Settings...
13	Data	Settings...
15	Data	Settings...
17	Data	Settings...
19	Data	Settings...
21	Data	Settings...
2	Data	Settings...
4	Data	Settings...
6	Data	Settings...
8	Data	Settings...
10	Data	Settings...
12	Data	Settings...
14	Data	Settings...
16	Data	Settings...
18	Data	Settings...
20	Data	Settings...
22	Data	Settings...

At the bottom of the dialog, there are three buttons: OK, Cancel, and Default.



**Device Selection:** The Device can be selected as AAT1271, AAT2847, AAT3129, AAT3151B or AAT4292.

PROTOCOL ANALYZER S2Cwire/AS2Cwire

Pin Assignment

EN/SET: A0

Protocol Analyzer Property

☐ S2Cwire: Settings...

☐ AS2Cwire: Settings...

☒ Device Selection: AAT1271

AAT1271  
AAT2847  
AAT3129  
AAT3151B  
AAT4292

Protocol Analyzer Format

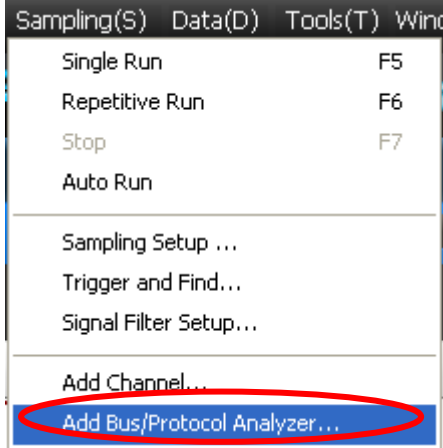
Data

Address

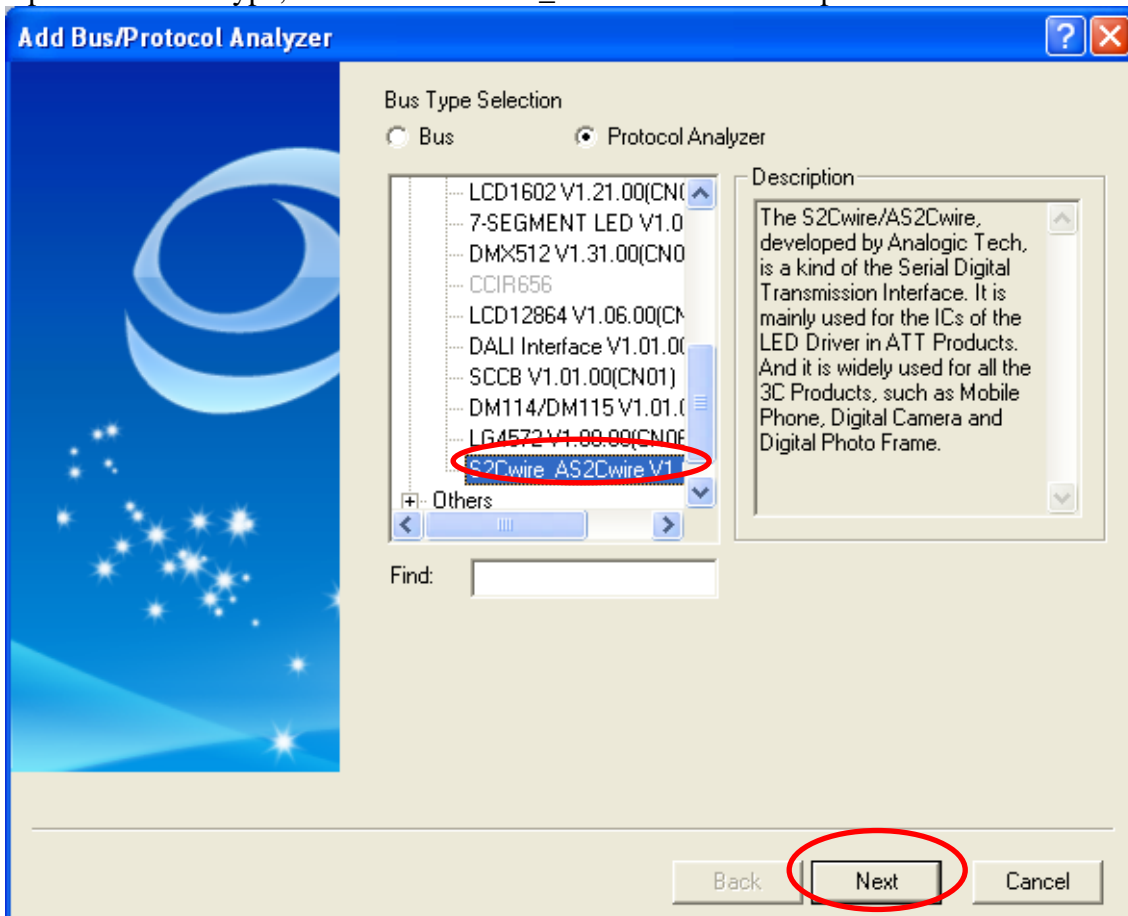
Default Back Next Cancel

### 3. Operating Instructions

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

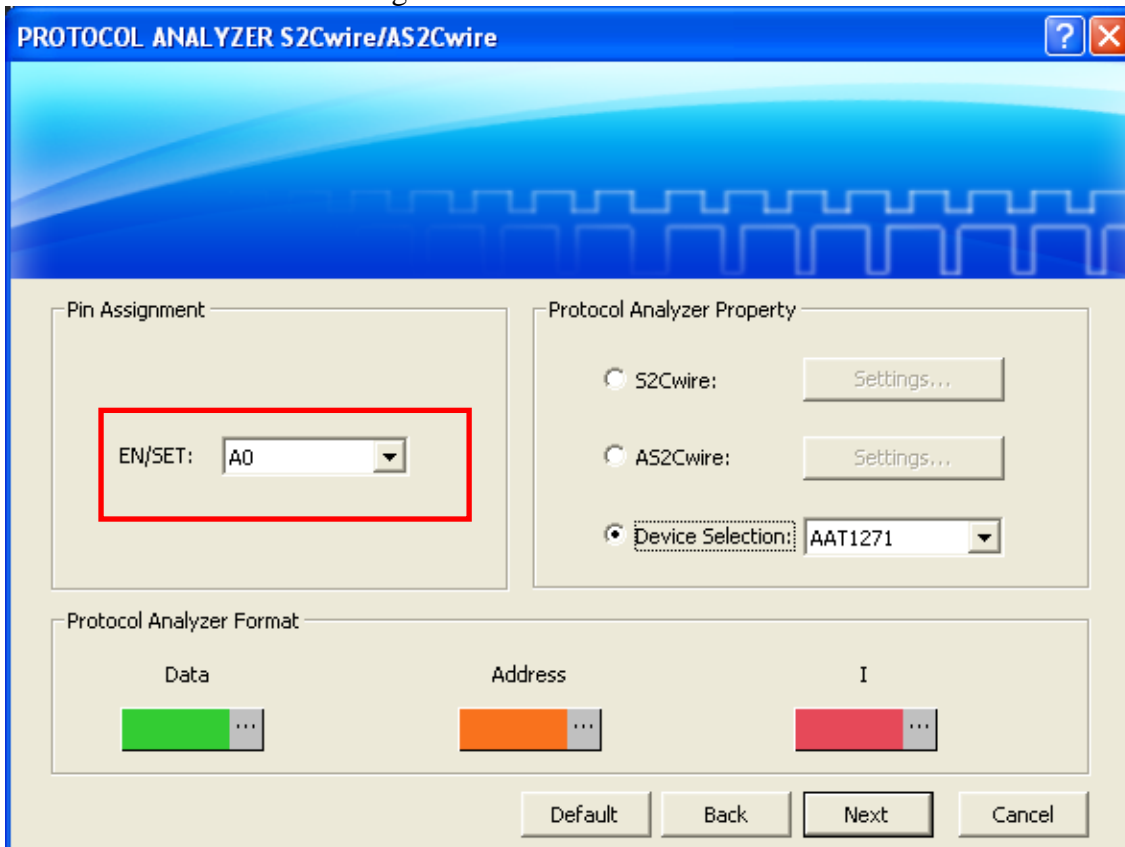


**STEP 2.** Select the Protocol Analyzer item in the Add Bus/Protocol Analyzer dialog box, expand the Optoelectronics Type, select the **S2Cwire\_AS2Cwire** and then press the **Next**.

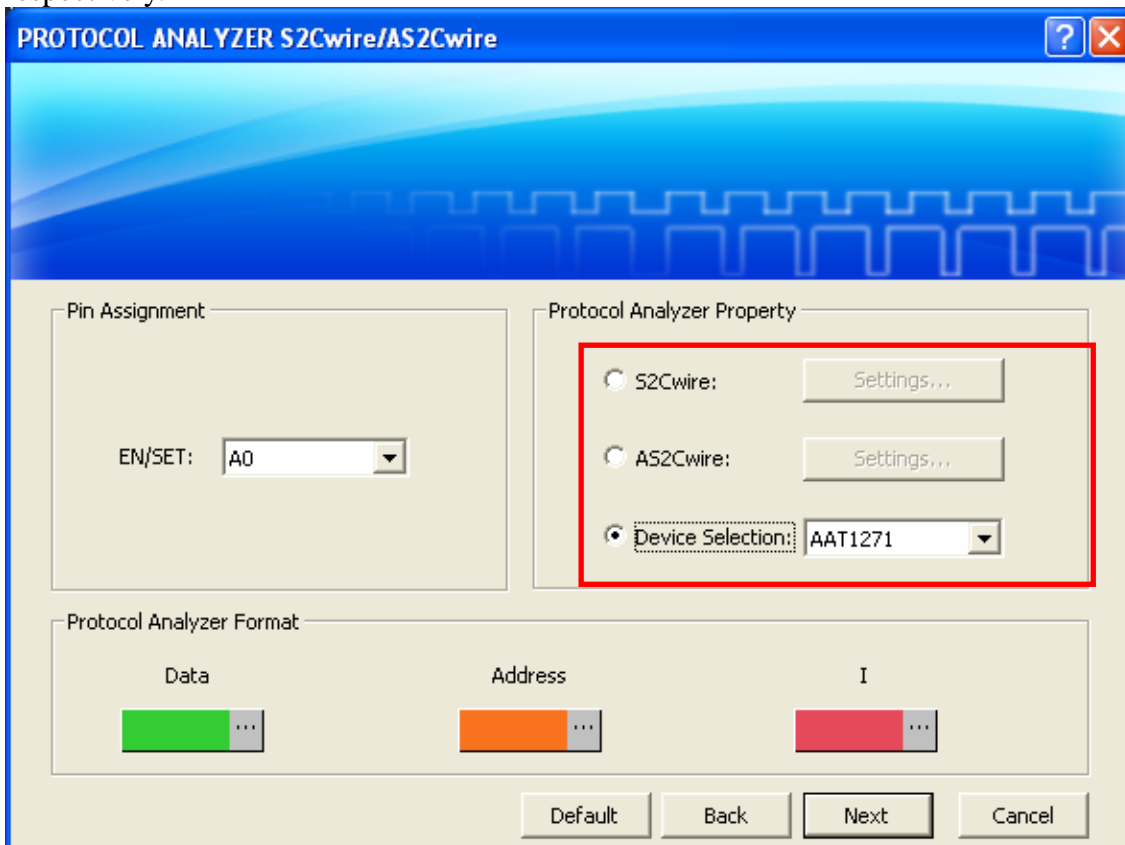




**STEP 3.** Set the Pin Assignment.



**STEP 4.** Set the Protocol Analyzer Property by clicking S2Cwire, AS2Cwire and Device Selection respectively.





**STEP 5.** Set the Protocol Analyzer Format.

PROTOCOL ANALYZER S2Cwire/AS2Cwire

Pin Assignment

EN/SET: A0

Protocol Analyzer Property

☐ S2Cwire: Settings...

☐ AS2Cwire: Settings...

☒ Device Selection: AAT1271

Protocol Analyzer Format

Data Address I

Default Back Next Cancel

**STEP 6.** Press the **Next** to finish all settings.

PROTOCOL ANALYZER S2Cwire/AS2Cwire

Pin Assignment

EN/SET: A0

Protocol Analyzer Property

☐ S2Cwire: Settings...

☐ AS2Cwire: Settings...

☒ Device Selection: AAT1271

Protocol Analyzer Format

Data Address I

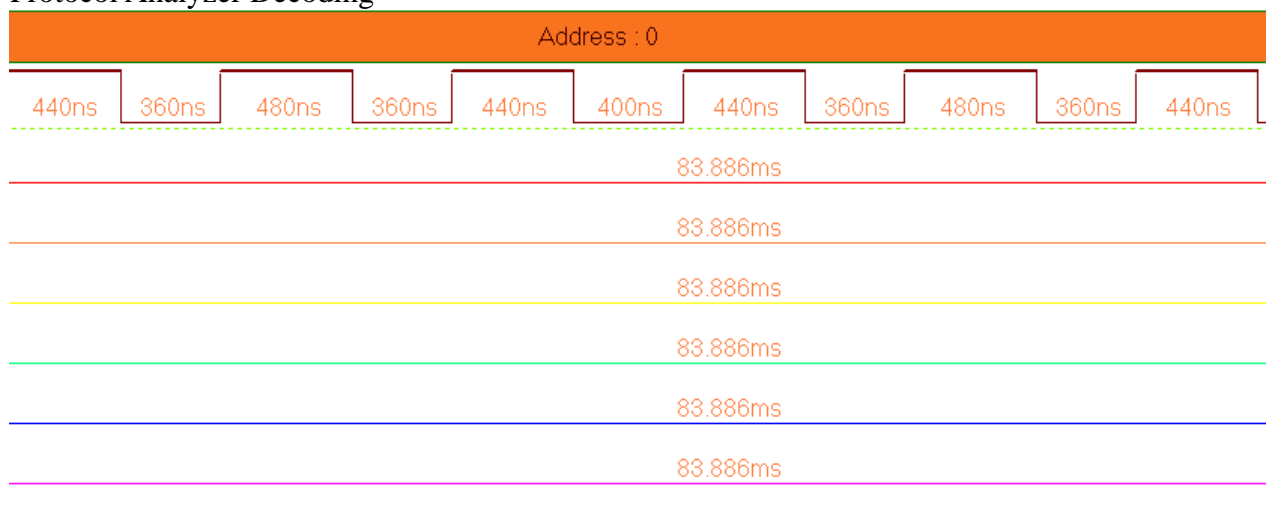
Default Back Next Cancel



**STEP 7.** Please enter the Bus Name, select **Yes, please delete** or **No, please reserve** and then press **Finish**.

**STEP 8.** 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 2M; the sampling frequency is 25 MHz (the sampling frequency should be more than eight times higher than the signal to be tested).

#### Protocol Analyzer Decoding





## Packet List

Navigator <b>Packet List</b> Statistics Memory Analyzer ? -			
Packet #	Name	TimeStamp	Address
1	Bus1(S2Cwire/AS2Cwire)	0ms	0
Packet #	Name	TimeStamp	Data
2	Bus1(S2Cwire/AS2Cwire)	0.53936ms	1
Packet #	Name	TimeStamp	Data
3	Bus1(S2Cwire/AS2Cwire)	1.06552ms	2
Packet #	Name	TimeStamp	Data
4	Bus1(S2Cwire/AS2Cwire)	1.59248ms	3
Packet #	Name	TimeStamp	Data
5	Bus1(S2Cwire/AS2Cwire)	2.12028ms	4
Packet #	Name	TimeStamp	Data
6	Bus1(S2Cwire/AS2Cwire)	2.64892ms	5
Packet #	Name	TimeStamp	Data