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

SPECIFICATION

MODEL: B09027-LAP-Philips RC-6-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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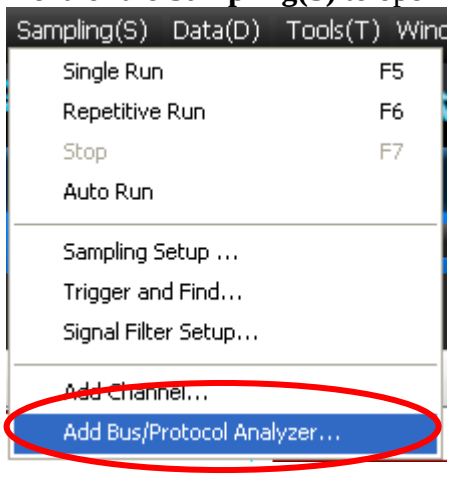
1 Software Register

Please register the software as the following steps:

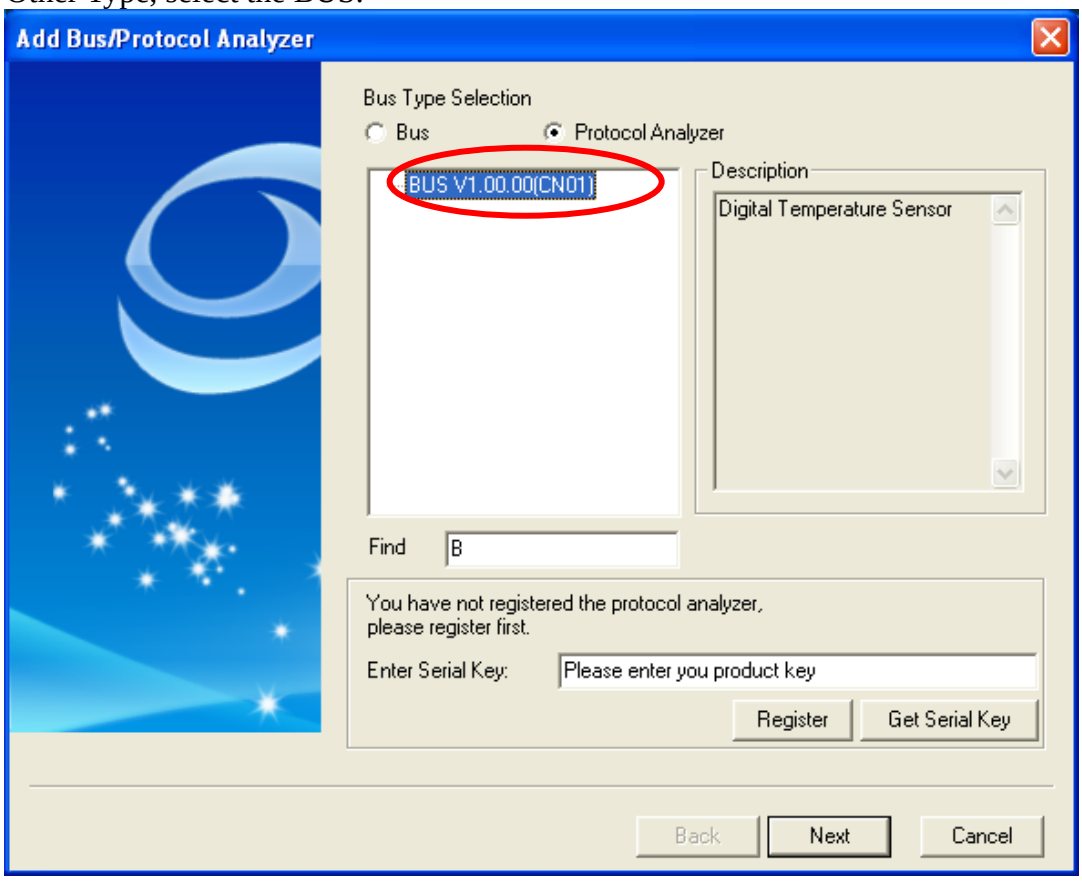
※ Remark1: The registration steps for all protocol analyzers are the same; you can complete the registration by following procedures. Following is an example on how to register Protocol Analyzer BUS.

※ 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 the Protocol Analyzer item in the Add Bus/Protocol Analyzer dialog box, expand the Other Type, select the BUS.



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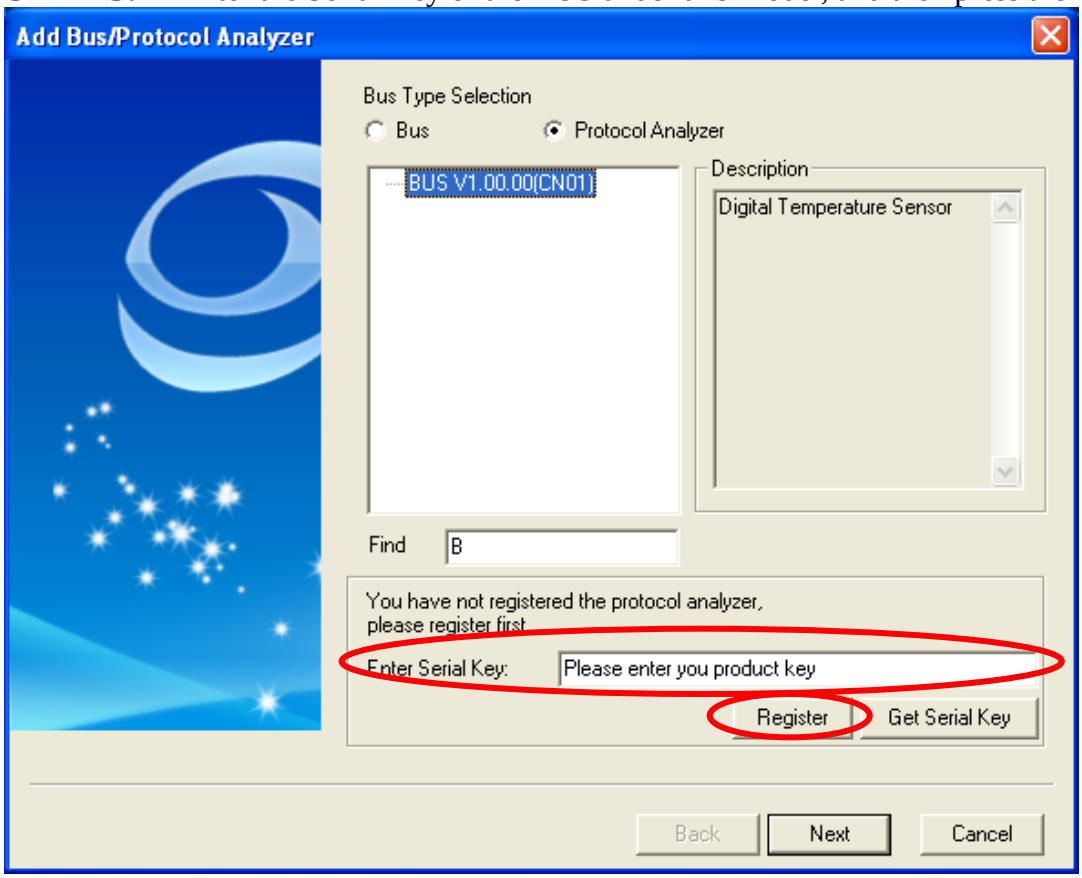
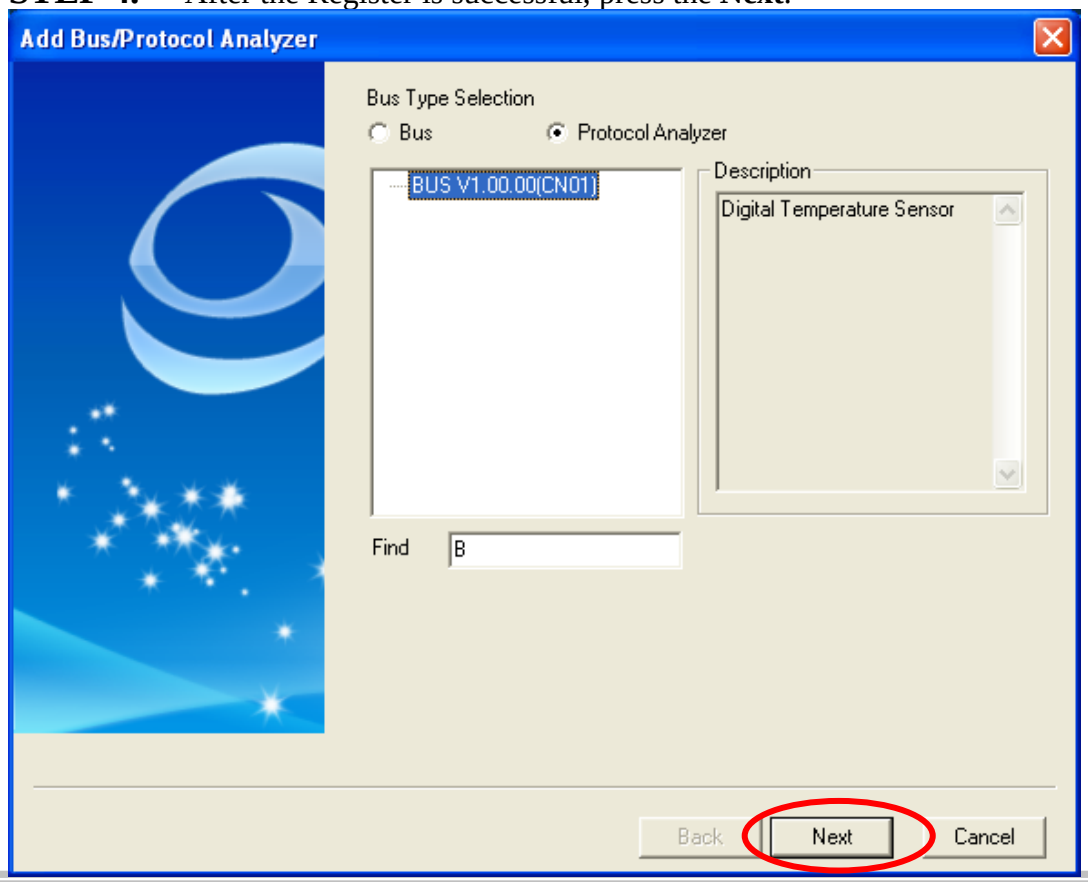
STEP 3. Enter the Serial Key of the BUS under this Model, and then press the **Register**.



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



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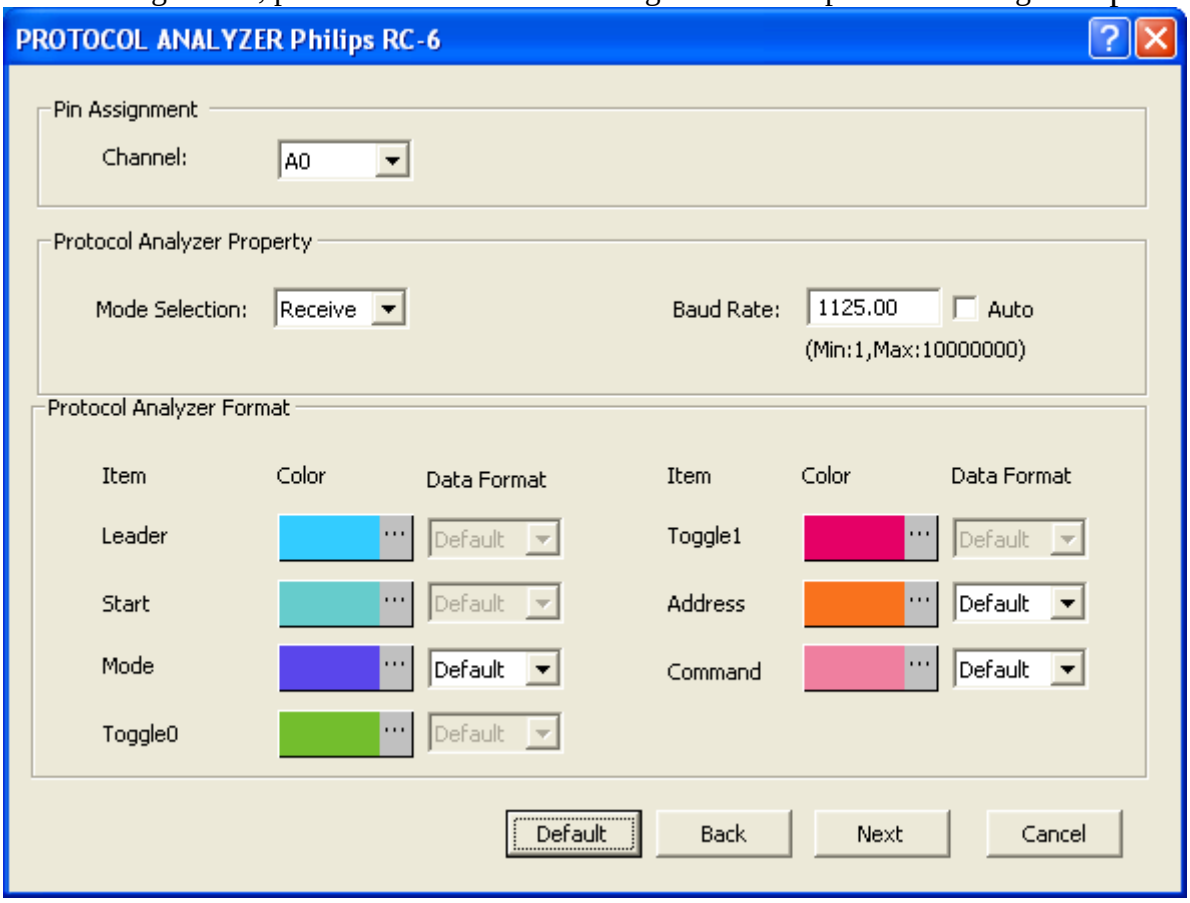
2 User Interface

In the configuration, please refer to the below images to select options of setting Philips RC-6 module.



Pin Assignment: It only needs one data channel to set the Protocol Analyzer.

Mode Selection: There are two decoding modes to be selected, Receive and Transmit. The default is Receive, which is widely used.

Baud Rate: The default setting of Baud Rate is 1125.00, which is the usual transmission speed. And the inputted value is from 1bps to 10Mbps. When the **Auto** is selected, the Baud Rate can be calculated automatically and the calculated value can be displayed.

Protocol Analyzer Format: Set the displayed color for every packet in the Protocol Analyzer. The Items (Mode, Address, Command) can be set as Binary, Decimal, Hexadecimal, ASCII or Default. And the Data Format of these Items (Mode, Address, Command) 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 (Mode, Address, Command) is the Default.

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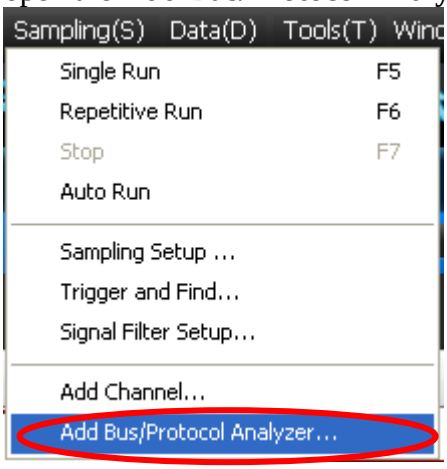
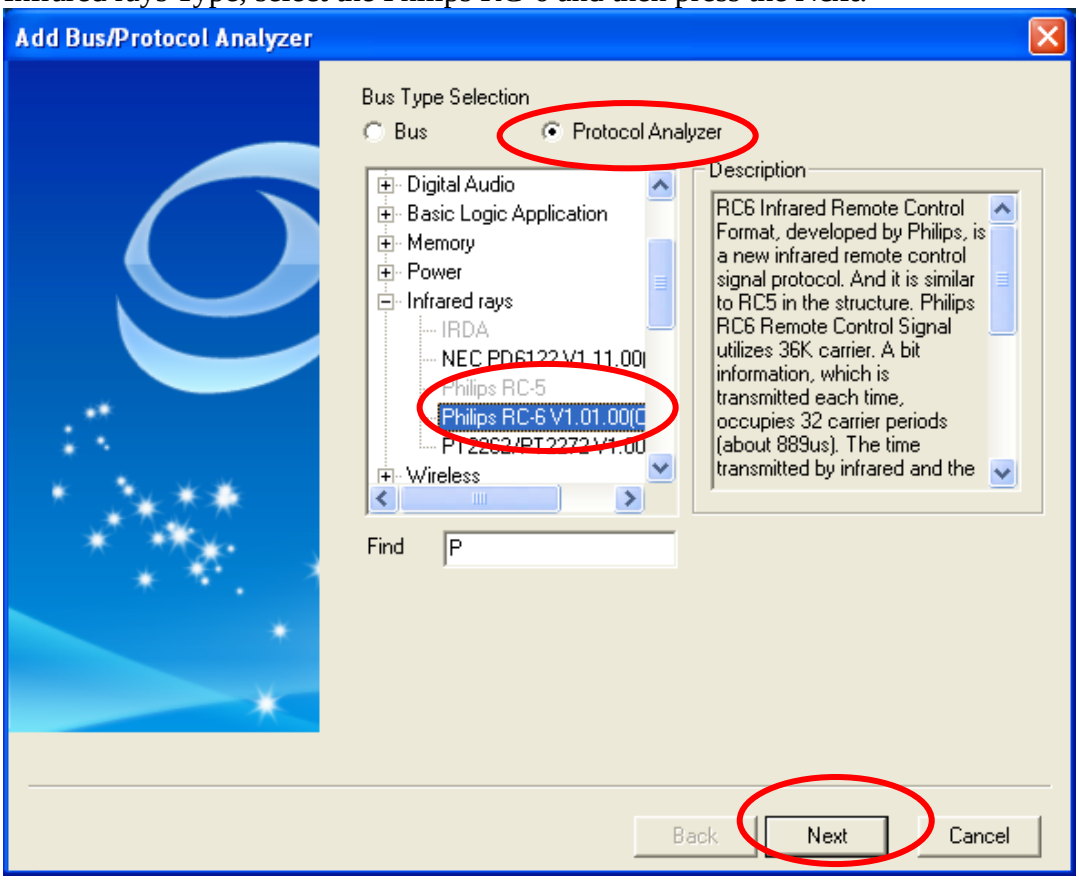
3 Operating Instructions

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 Infrared rays Type, select the Philips RC-6 and then press the **Next**.



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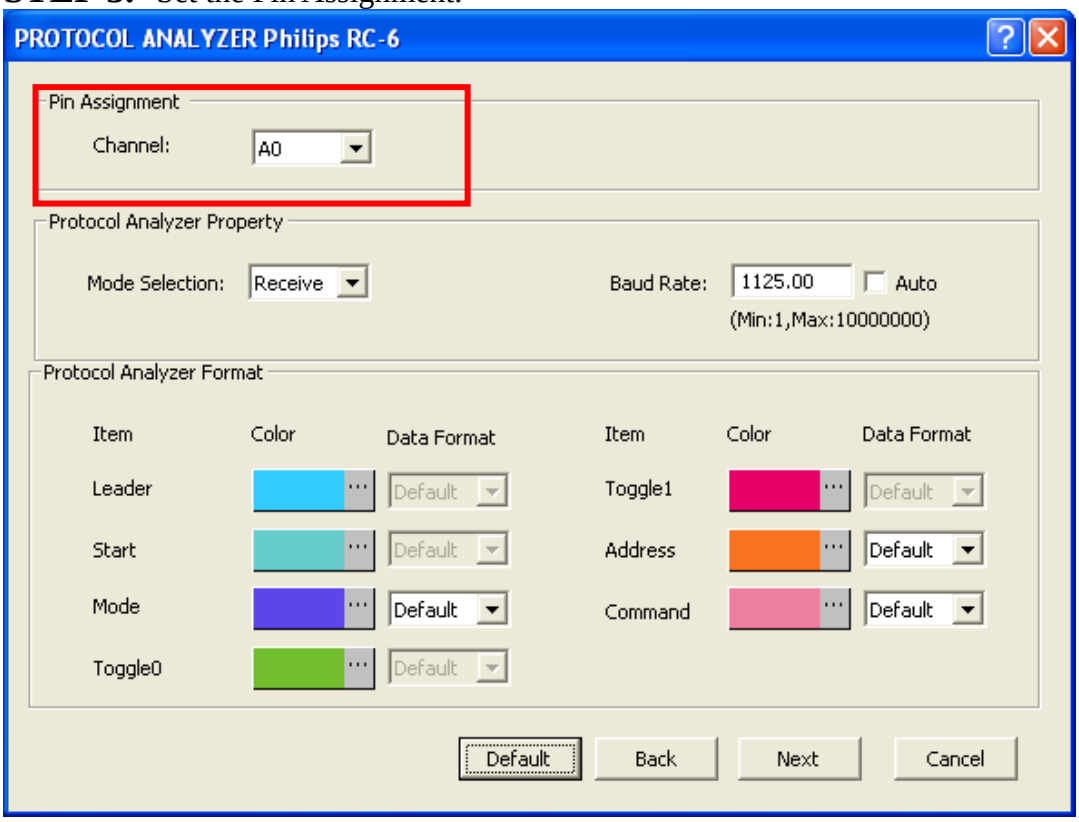
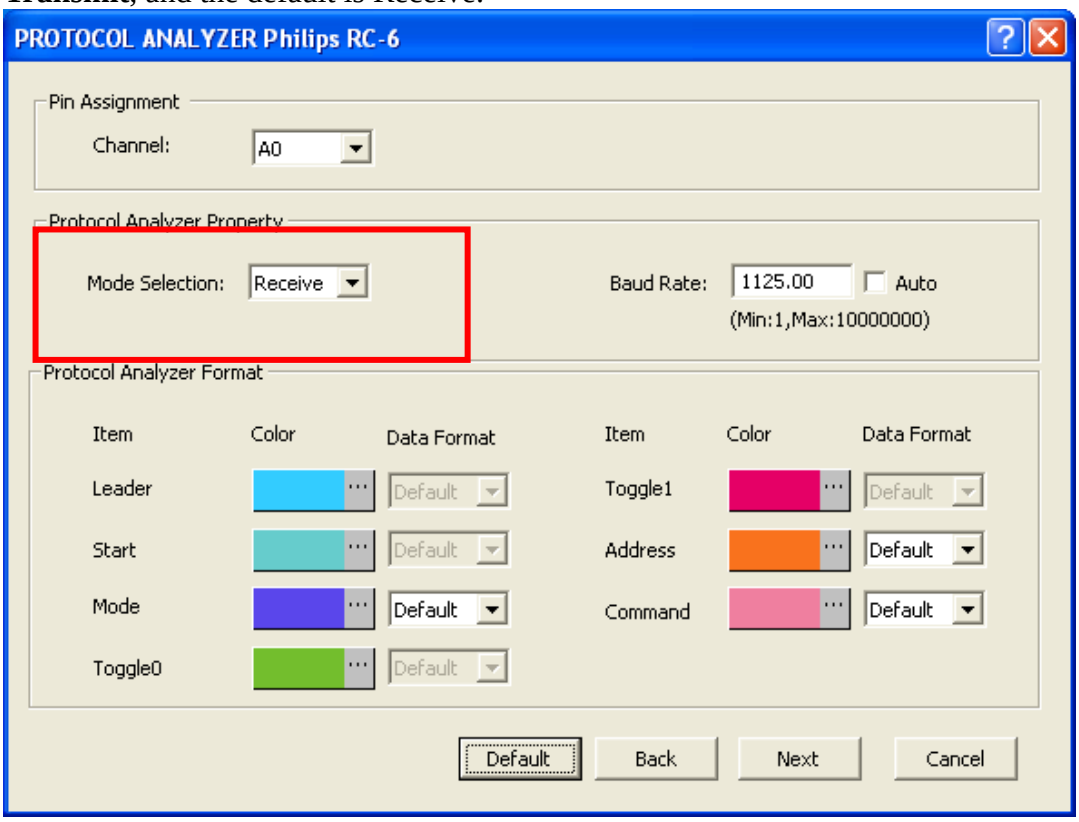
STEP 3. Set the Pin Assignment.



STEP 4. Set the Mode Selection. There are two decoding modes to be selected, namely, **Receive** and **Transmit**, and the default is Receive.



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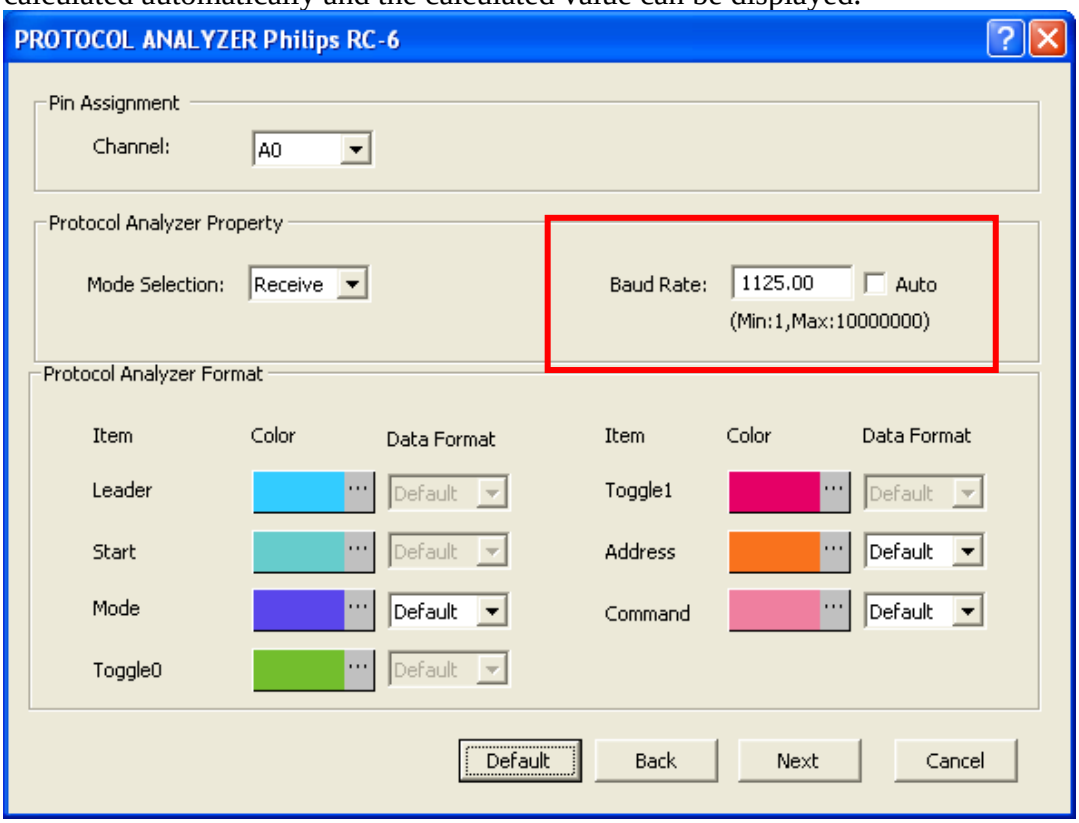
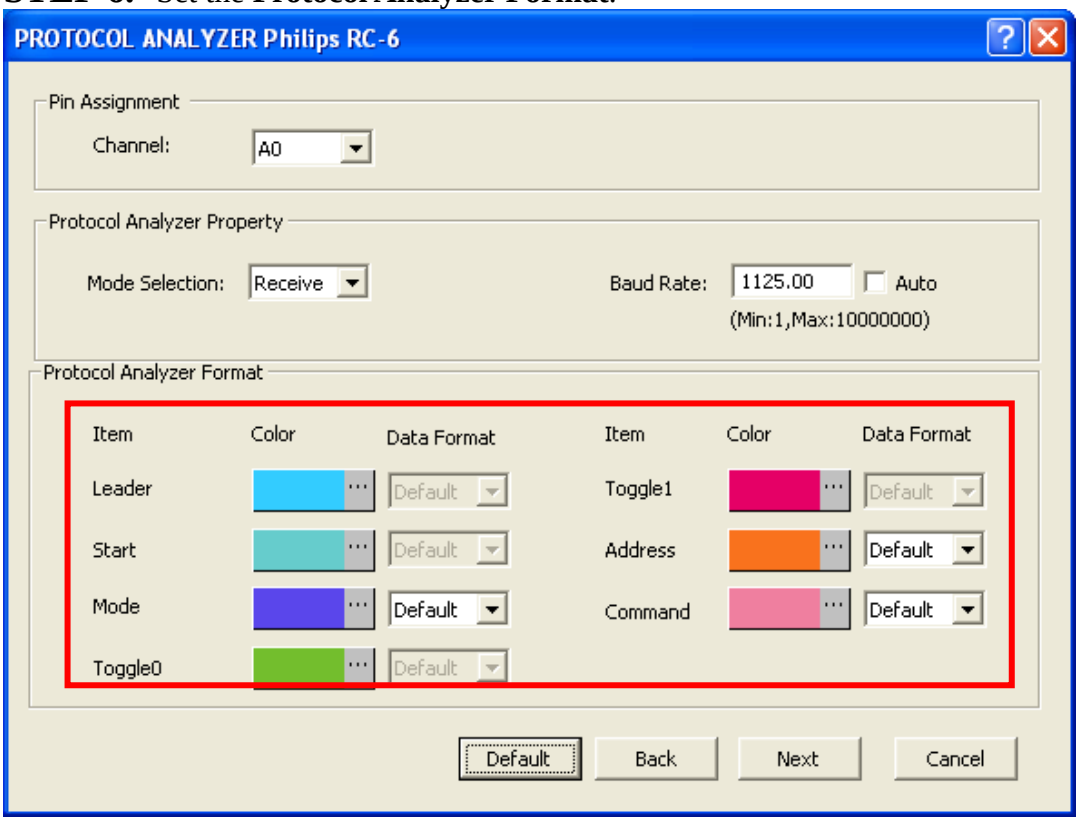
STEP 5. Set the Baud Rate, the default is 1125.00.When selecting Auto, the Baud Rate can be calculated automatically and the calculated value can be displayed.



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



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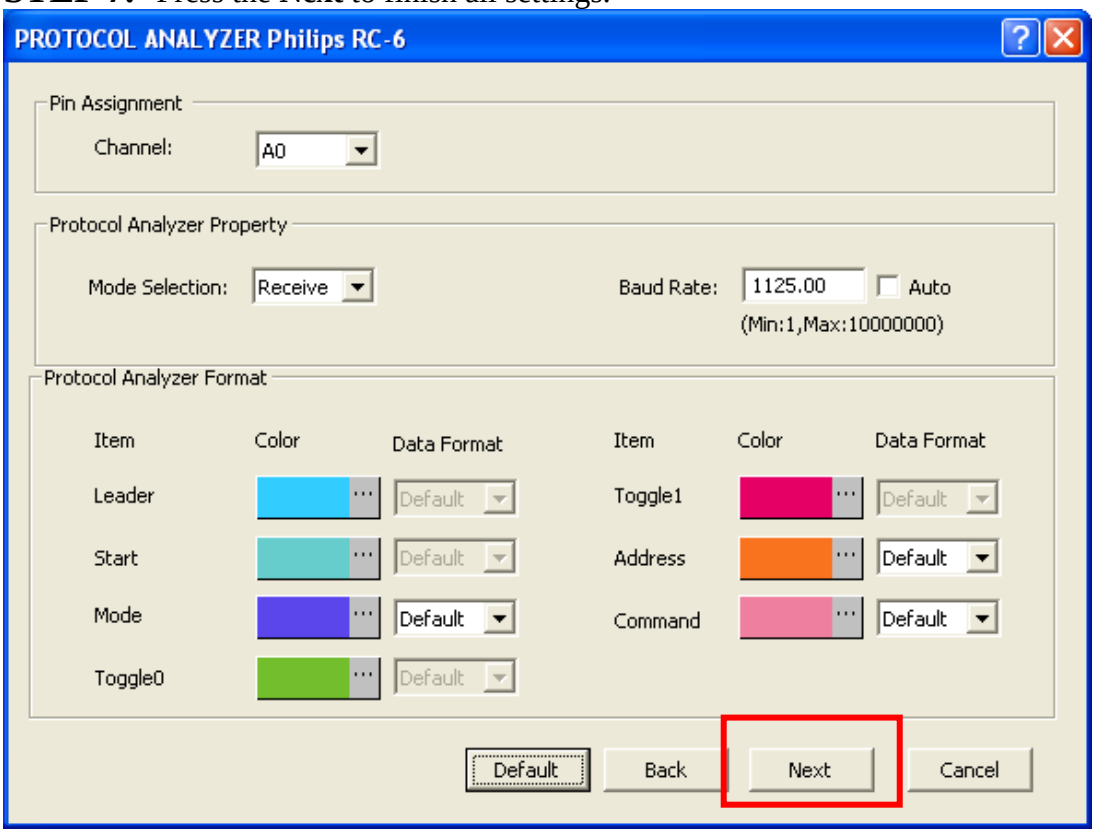
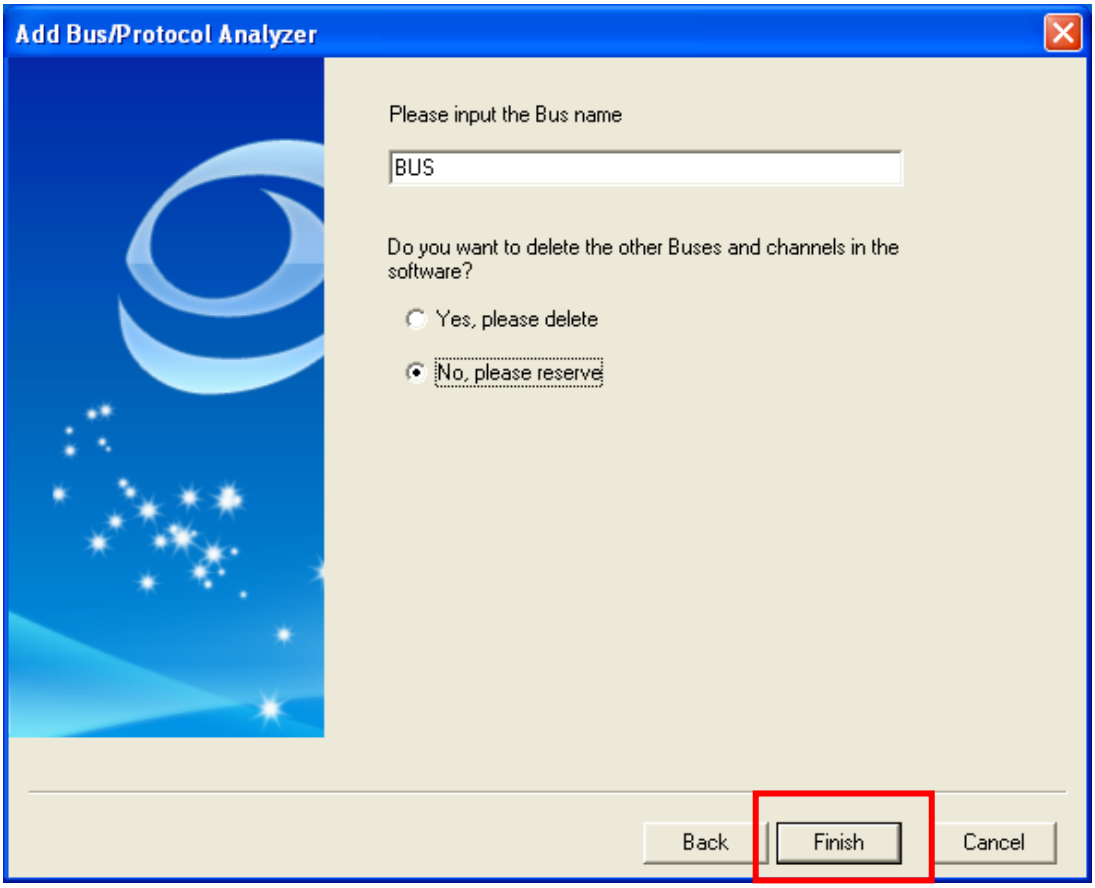
STEP 7. Press the **Next** to finish all settings.



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



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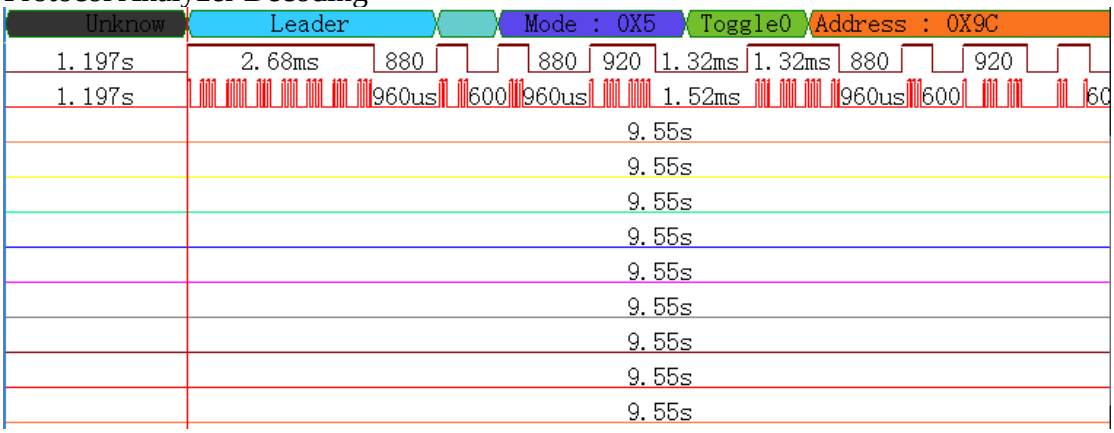
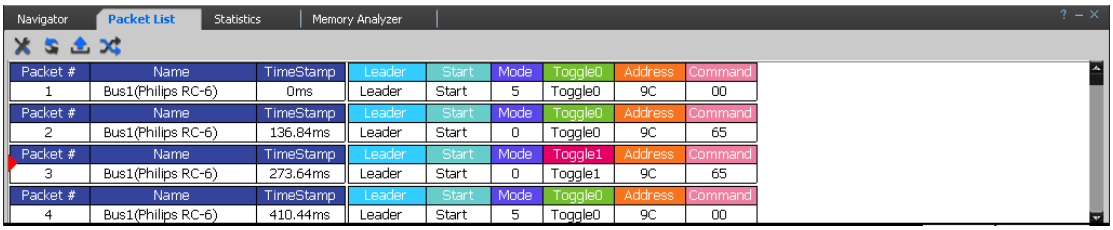
STEP 9. Following pictures show the completion of the protocol analyzer's receiving port decoding and the packet list. The trigger condition is set as Either Edge; the memory depth is 16K; the sampling frequency is 25KHz (the sampling frequency should be more than 4 times higher than the signal to be tested). The below Mode is the Receiving Port; when it is the Transmitting Port, we recommend that the sampling frequency is 400KHz.

Protocol Analyzer Decoding



Packet List



Packet #	Name	TimeStamp	Leader	Start	Mode	Toggle0	Address	Command
1	Bus1(Philips RC-6)	0ms	Leader	Start	5	Toggle0	9C	00
2	Bus1(Philips RC-6)	136.84ms	Leader	Start	0	Toggle0	9C	65
3	Bus1(Philips RC-6)	273.64ms	Leader	Start	0	Toggle1	9C	65
4	Bus1(Philips RC-6)	410.44ms	Leader	Start	5	Toggle0	9C	00