



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

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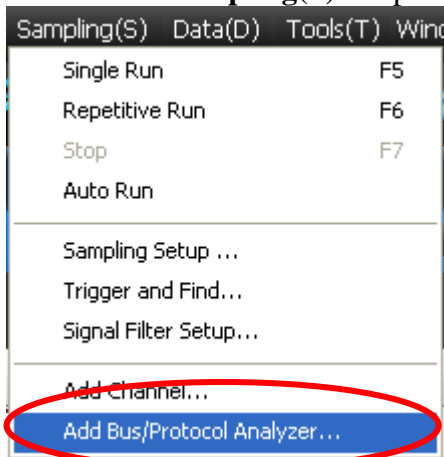


1 Software Register

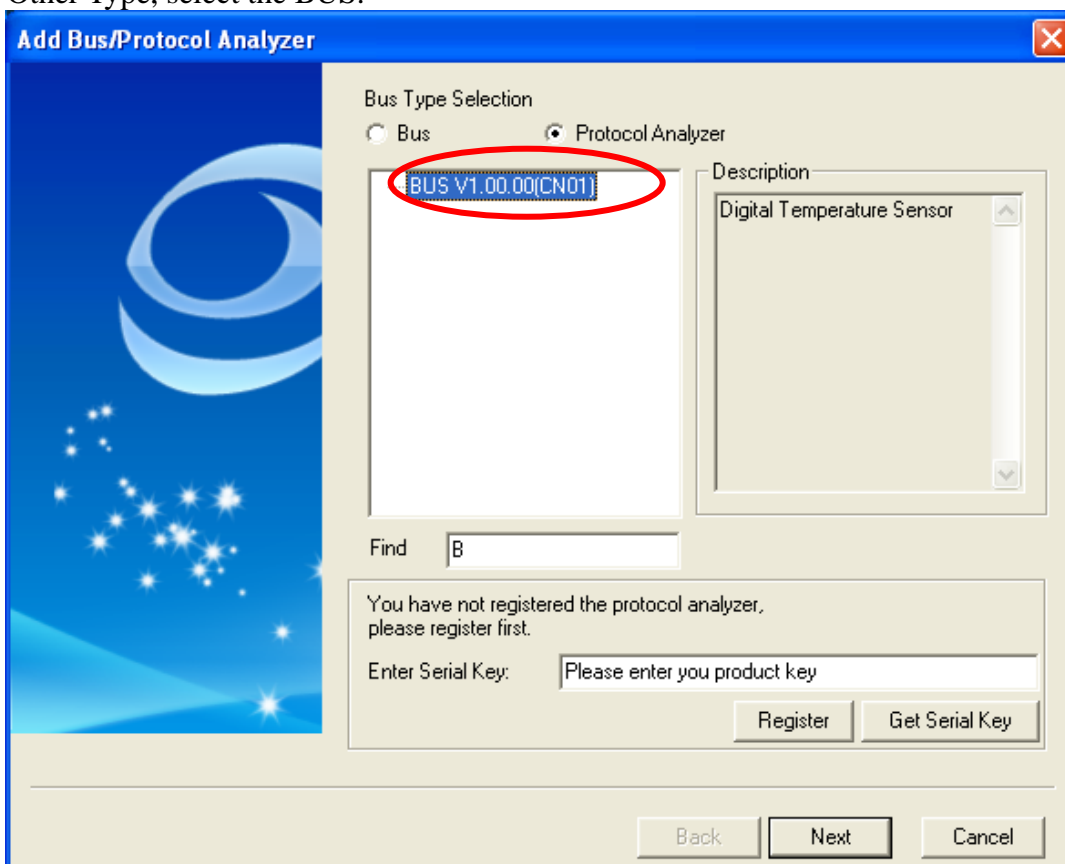
Please register the software as the following steps:

- ※ 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.

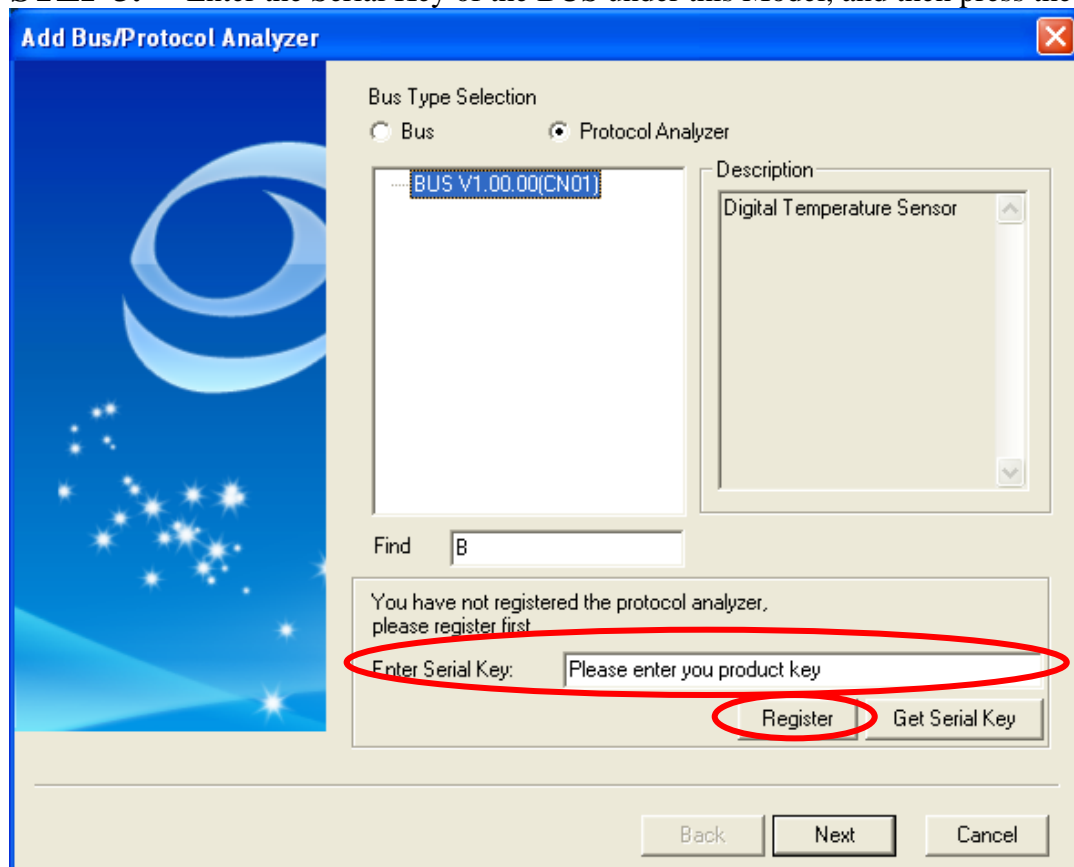


STEP 2. Select the Protocol Analyzer item in the Add Bus/Protocol Analyzer dialog box, expand the Other Type, select the BUS.

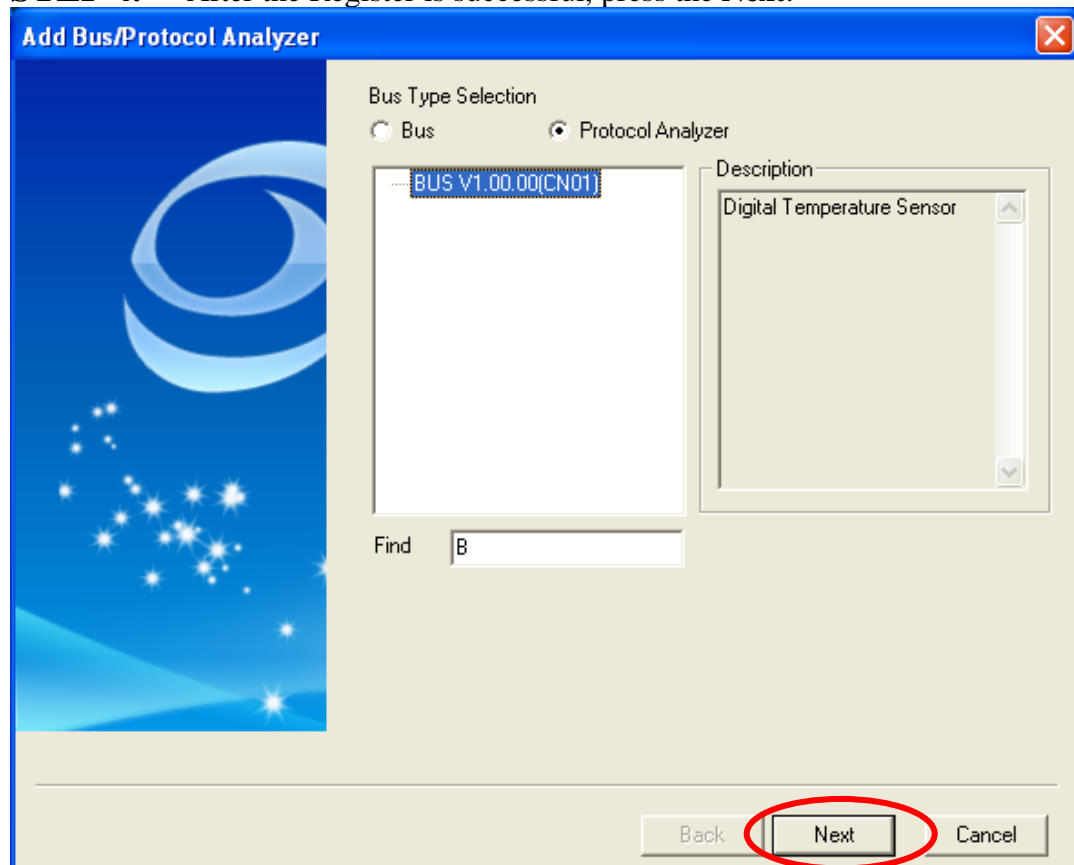




STEP 3. Enter the Serial Key of the BUS under this Model, and then press the **Register**.



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





2 User Interface

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

Item	Color	Data Format	Item	Color	Data Format
Leader		Default	Toggle1		Default
Start		Default	Address		Default
Mode		Default	Command		Default
Toggle0		Default			

Buttons: Default, Back, Next, Cancel

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.

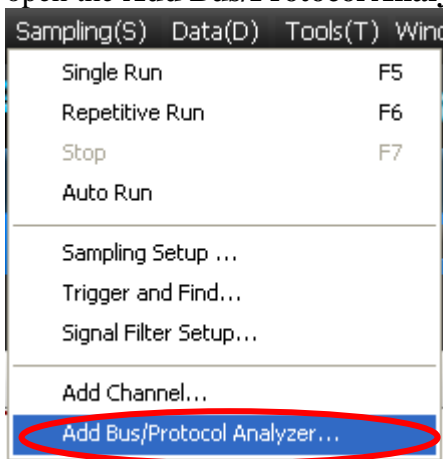
Baud Rate: The default setting of Baud Rate is 1125.00, which is the usual transmission speed. And the inputted value is from 1bps to 10Mbps. When the **Auto** is selected, the Baud Rate can be calculated automatically and the calculated value can be displayed.

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.

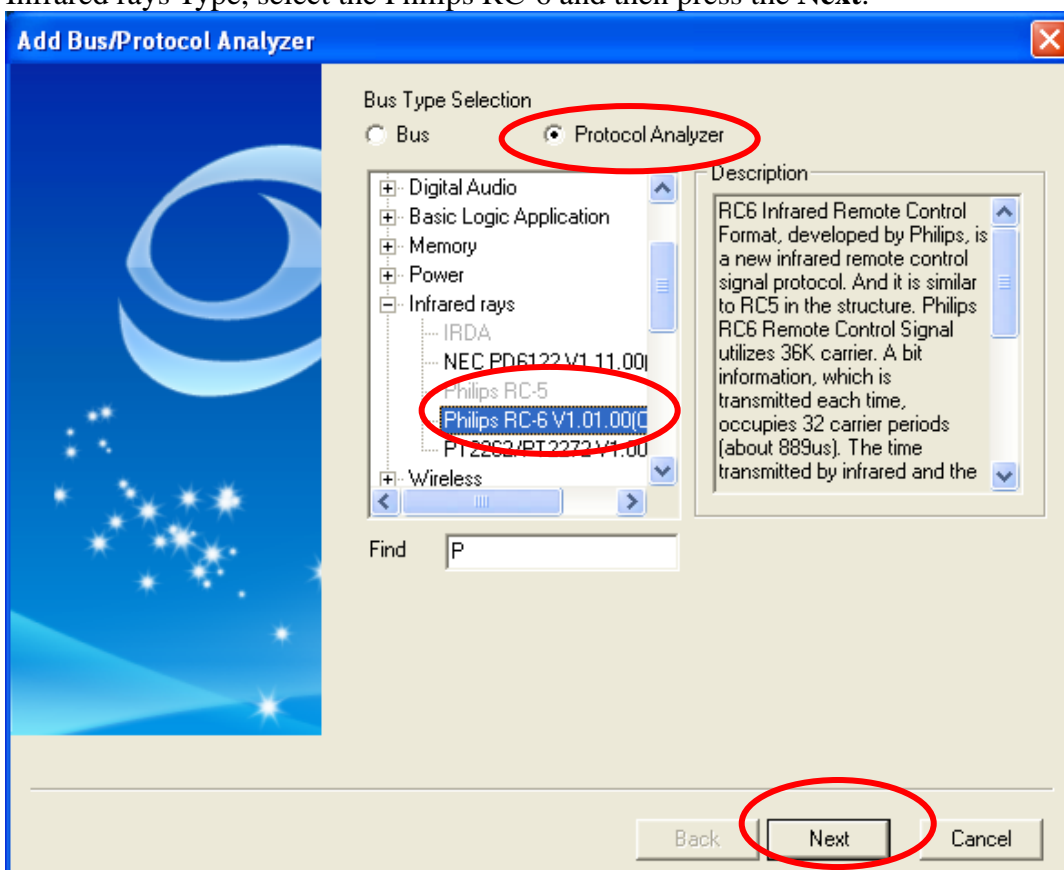


3 Operating Instructions

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**.





STEP 3. Set the Pin Assignment.

PROTOCOL ANALYZER Philips RC-6

Pin Assignment

Channel: A0

Protocol Analyzer Property

Mode Selection: Receive Baud Rate: 1125.00 ☐ Auto
(Min:1,Max:10000000)

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Leader		Default	Toggle1		Default
Start		Default	Address		Default
Mode		Default	Command		Default
Toggle0		Default			

Default Back Next Cancel

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

PROTOCOL ANALYZER Philips RC-6

Pin Assignment

Channel: A0

Protocol Analyzer Property

Mode Selection: Receive Baud Rate: 1125.00 ☐ Auto
(Min:1,Max:10000000)

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Leader		Default	Toggle1		Default
Start		Default	Address		Default
Mode		Default	Command		Default
Toggle0		Default			

Default Back Next Cancel



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.

The screenshot shows the 'PROTOCOL ANALYZER Philips RC-6' dialog box. The 'Pin Assignment' section has 'Channel' set to 'A0'. The 'Protocol Analyzer Property' section has 'Mode Selection' set to 'Receive'. The 'Baud Rate' is set to '1125.00' with an 'Auto' checkbox. The 'Protocol Analyzer Format' section contains two columns of items with color swatches and 'Data Format' dropdowns. The 'Default' button is highlighted.

Item	Color	Data Format	Item	Color	Data Format
Leader	Blue	Default	Toggle1	Magenta	Default
Start	Teal	Default	Address	Orange	Default
Mode	Purple	Default	Command	Pink	Default
Toggle0	Green	Default			

STEP 6. Set the Protocol Analyzer Format.

The screenshot shows the 'PROTOCOL ANALYZER Philips RC-6' dialog box. The 'Pin Assignment' section has 'Channel' set to 'A0'. The 'Protocol Analyzer Property' section has 'Mode Selection' set to 'Receive' and 'Baud Rate' set to '1125.00'. The 'Protocol Analyzer Format' section is highlighted with a red box, showing the same table as in Step 5. The 'Default' button is highlighted.

Item	Color	Data Format	Item	Color	Data Format
Leader	Blue	Default	Toggle1	Magenta	Default
Start	Teal	Default	Address	Orange	Default
Mode	Purple	Default	Command	Pink	Default
Toggle0	Green	Default			



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

The dialog box is titled "PROTOCOL ANALYZER Philips RC-6". It contains three sections: "Pin Assignment" with a "Channel:" dropdown set to "A0"; "Protocol Analyzer Property" with "Mode Selection:" set to "Receive" and "Baud Rate:" set to "1125.00" (with an "Auto" checkbox and a range "(Min:1,Max:10000000)"); and "Protocol Analyzer Format" which is a table of settings.

Item	Color	Data Format	Item	Color	Data Format
Leader	[Blue]	[Default]	Toggle1	[Magenta]	[Default]
Start	[Teal]	[Default]	Address	[Orange]	[Default]
Mode	[Purple]	[Default]	Command	[Pink]	[Default]
Toggle0	[Green]	[Default]			

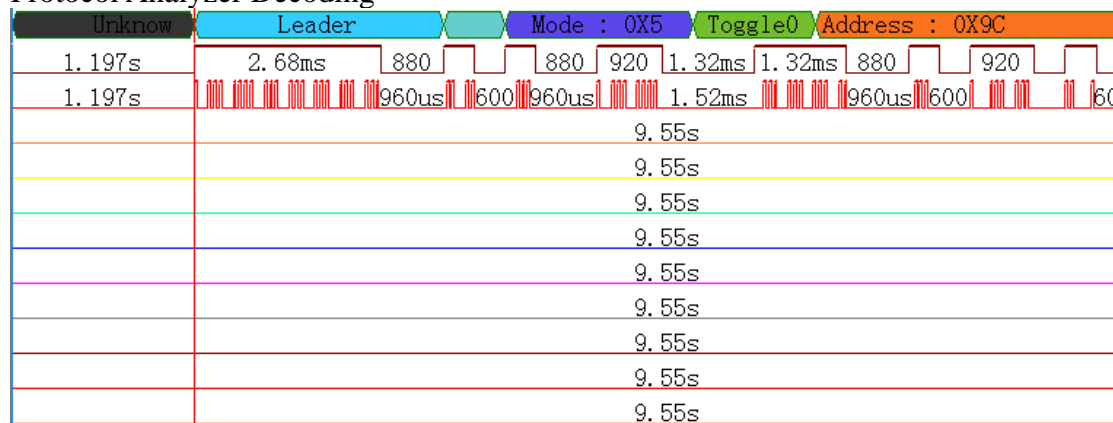
At the bottom are buttons: "Default", "Back", "Next" (highlighted with a red rectangle), and "Cancel".

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

The dialog box is titled "Add Bus/Protocol Analyzer". It has a blue decorative background on the left. The main area contains: "Please input the Bus name" with a text box containing "BUS"; "Do you want to delete the other Buses and channels in the software?" with two radio buttons: "Yes, please delete" (unselected) and "No, please reserve" (selected, with the text highlighted by a dotted border); and buttons "Back", "Finish" (highlighted with a red rectangle), and "Cancel" at the bottom.



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