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

SPECIFICATION

MODEL: B09015-LAP-DALI Interface-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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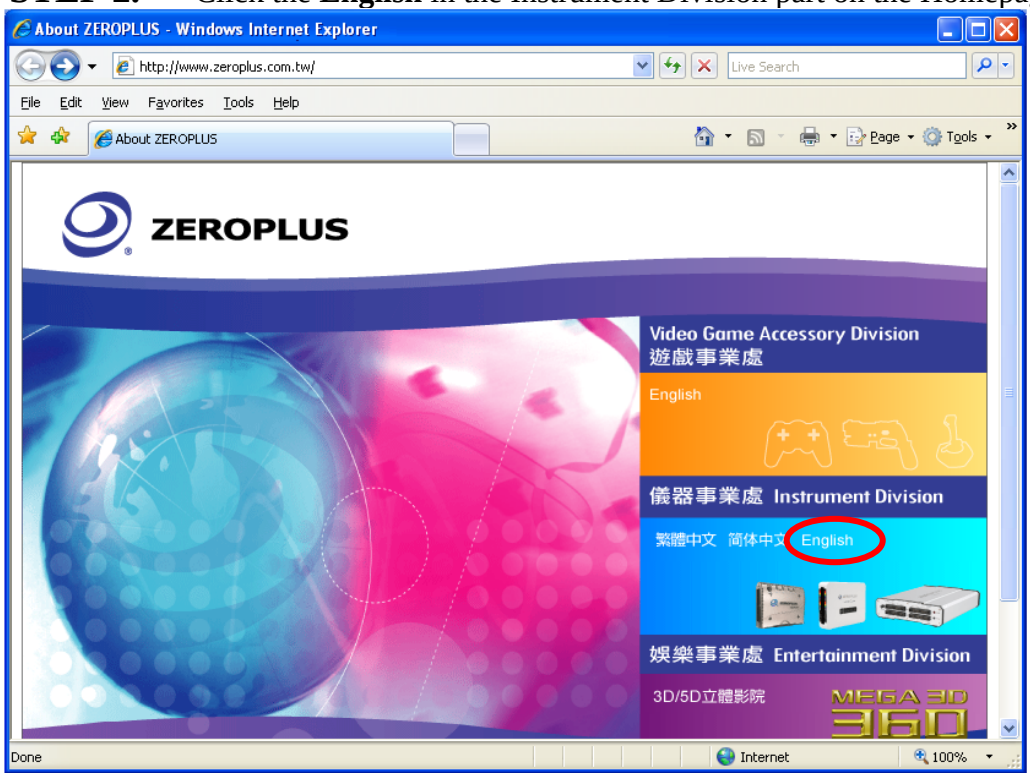
1. Software Download

Please install the software as the following steps:

Remark: 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. Visit the website of Zeroplus: http://www.zeroplus.com.tw.

STEP 2. Click the **English** in the Instrument Division part on the Homepage.



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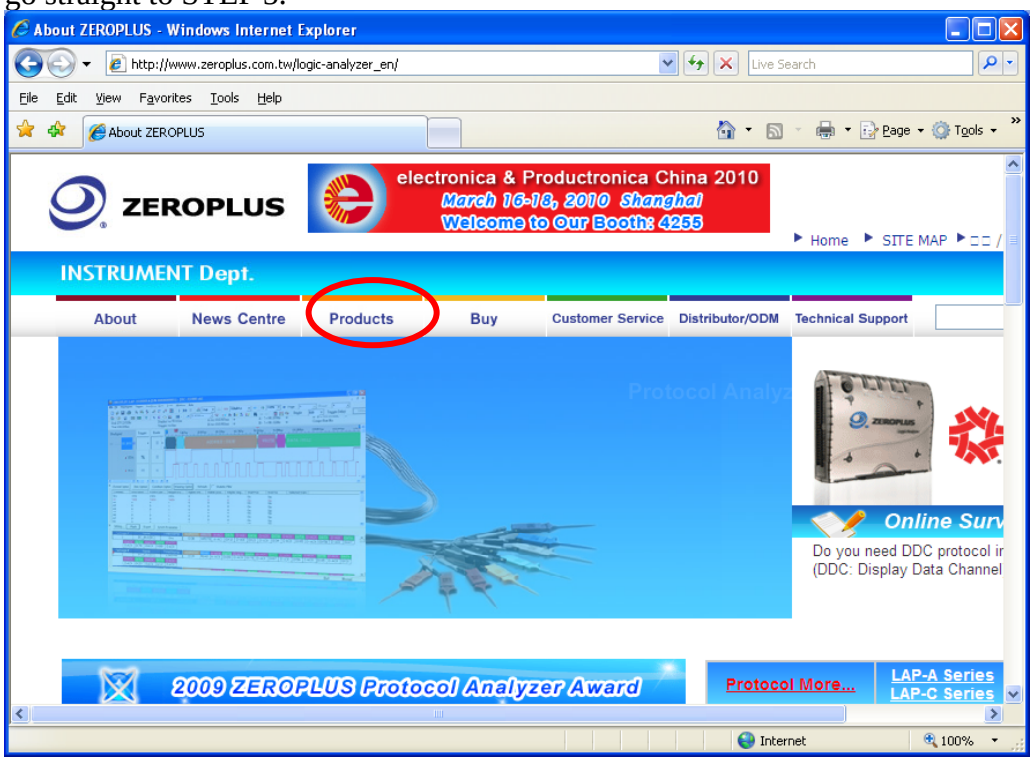
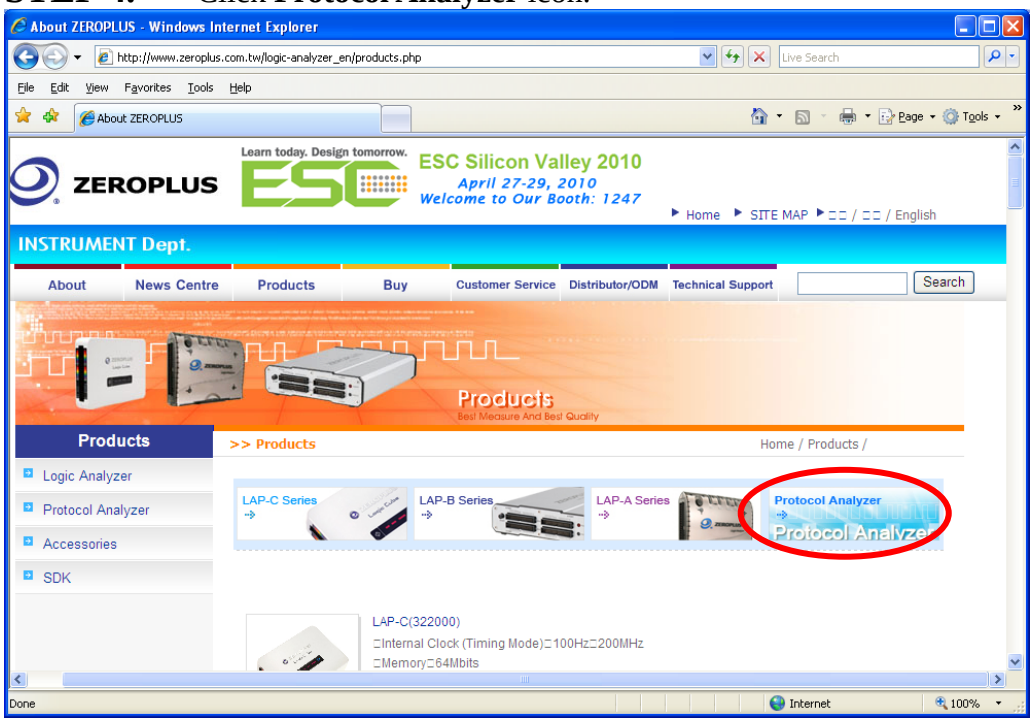
STEP 3. Click **Products** menu or select **Protocol Analyzer** item from its pull-down menu to go straight to STEP 5.



STEP 4. Click **Protocol Analyzer** icon.



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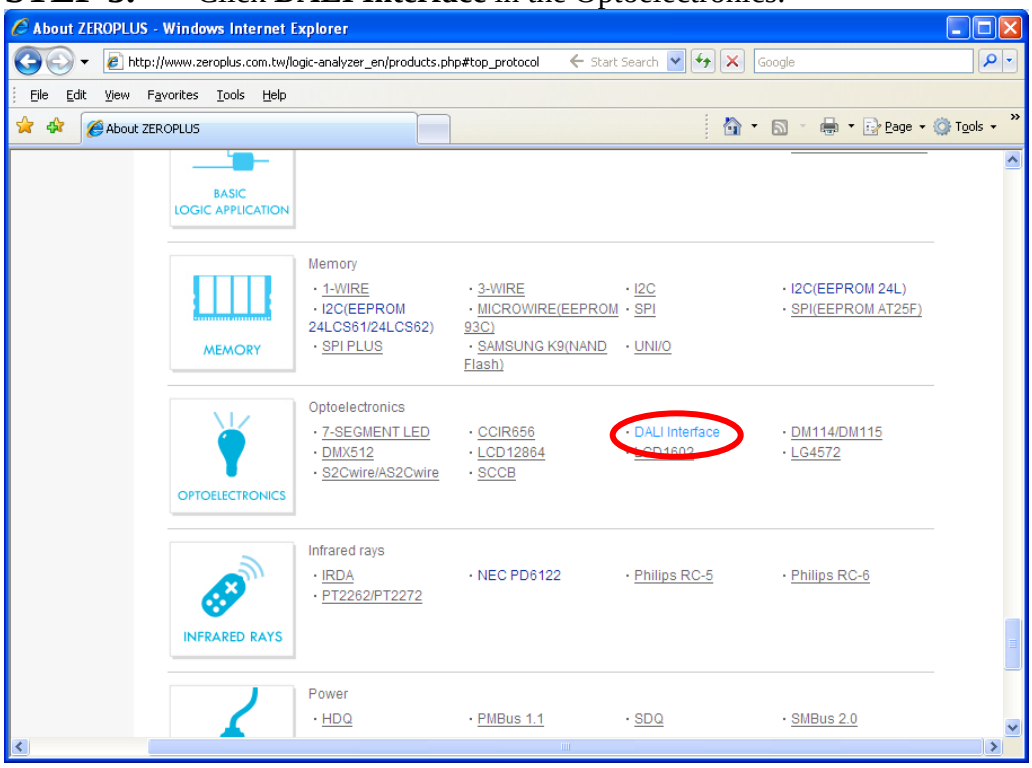
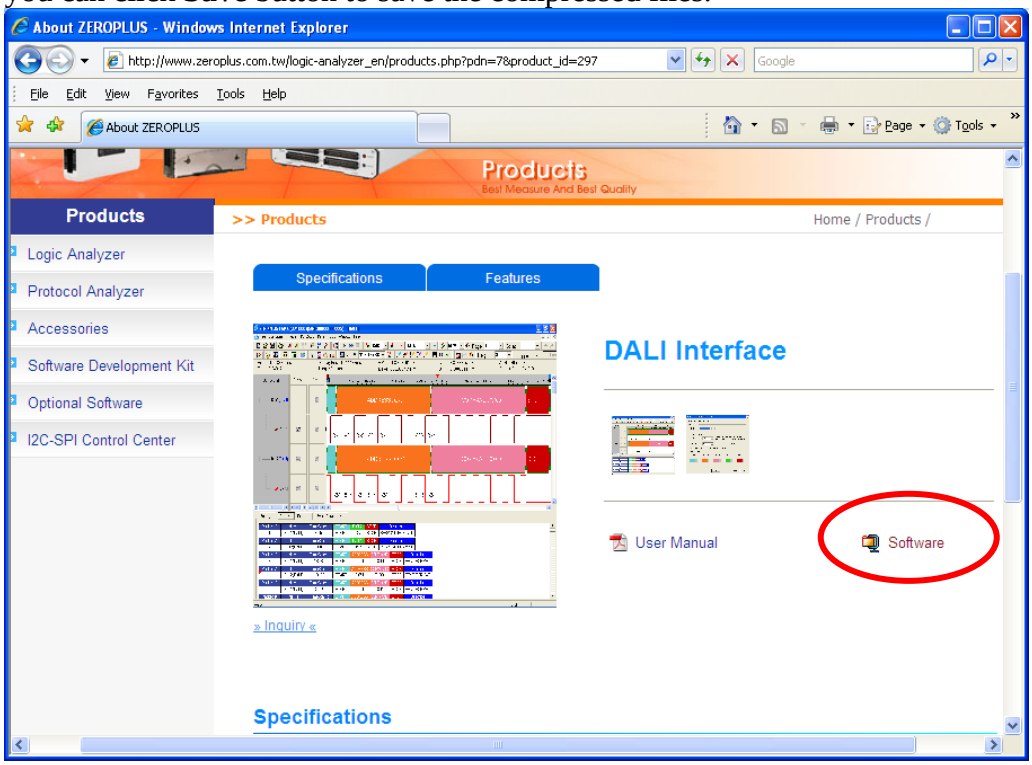
STEP 5. Click **DALI Interface** in the Optoelectronics.



STEP 6. Click **Software** in the Products page. When the File Download dialog box appears, you can click **Save** button to save the compressed files.



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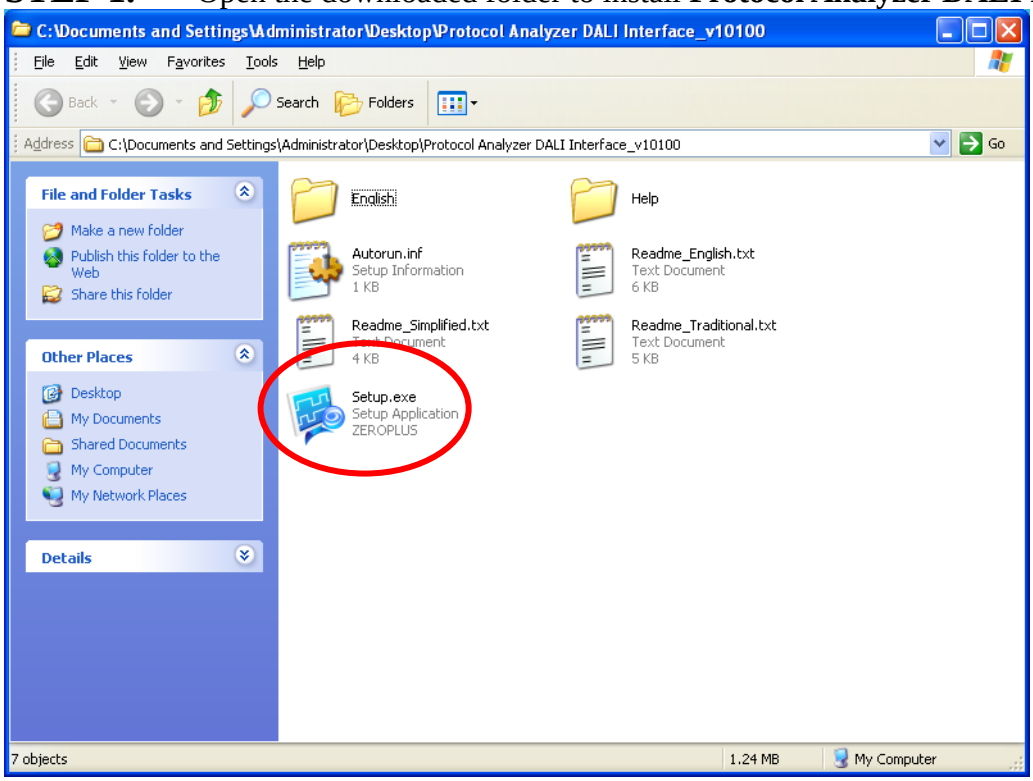
2. Software Installation

STEP 1. Open the downloaded folder to install **Protocol Analyzer DALI Interface**.



STEP 2. Click **Install**.

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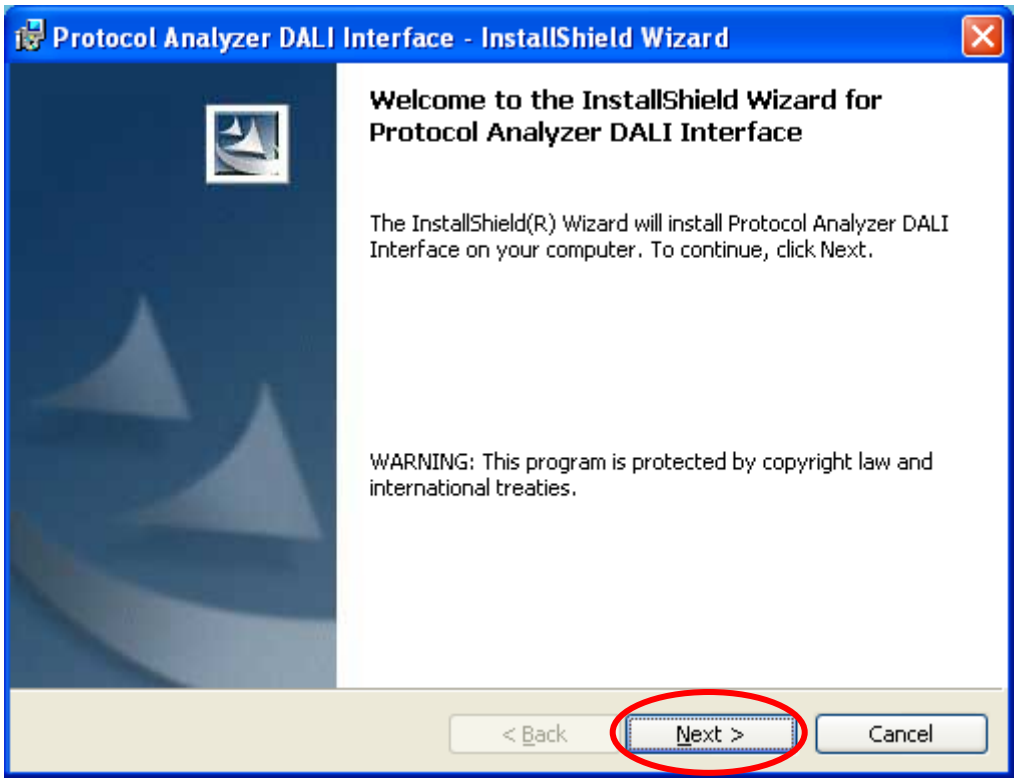
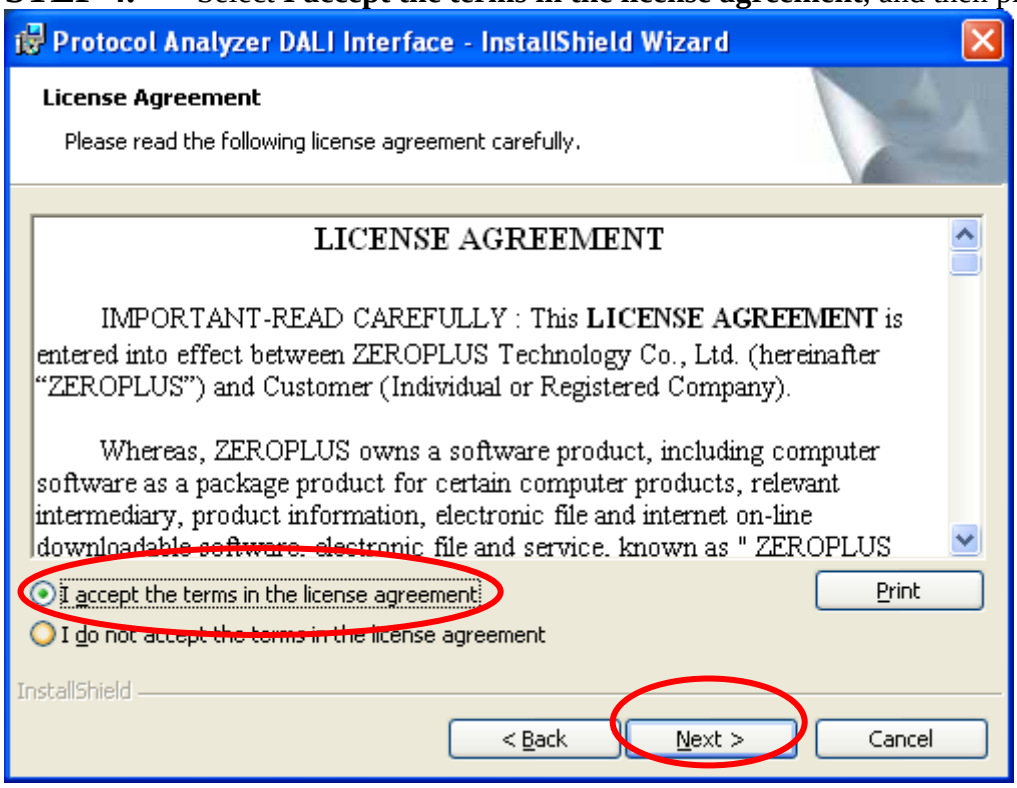
STEP 3. Click **Next**.



STEP 4. Select **I accept the terms in the license agreement**, and then press **Next**.



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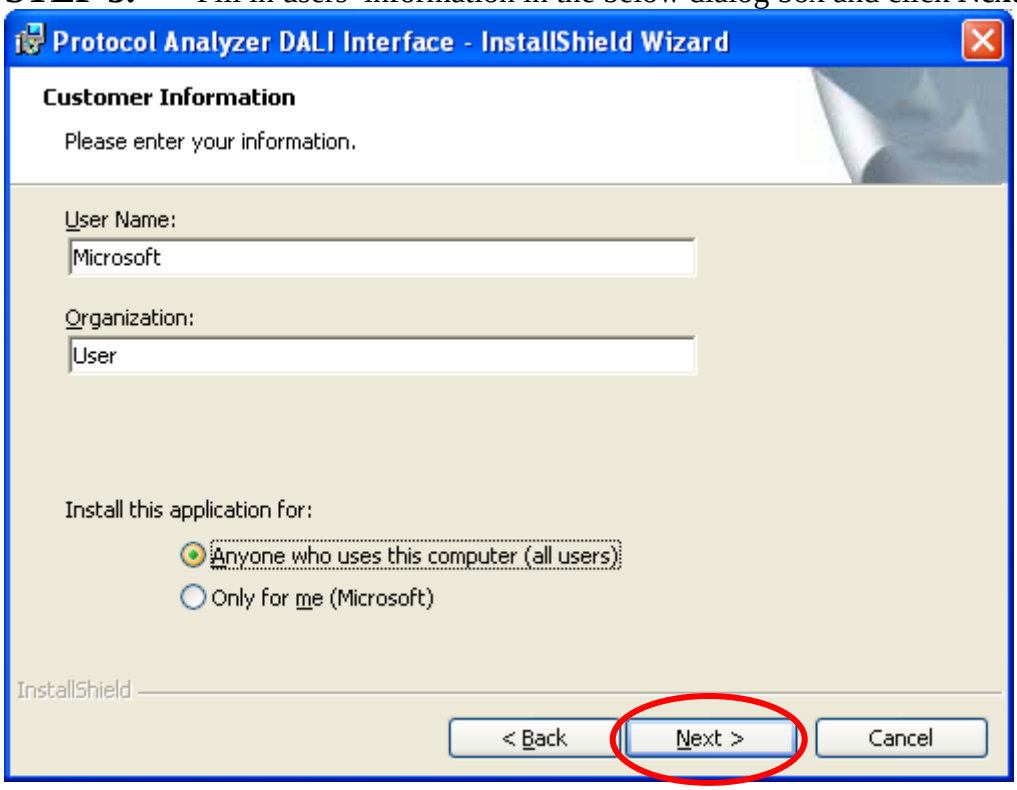
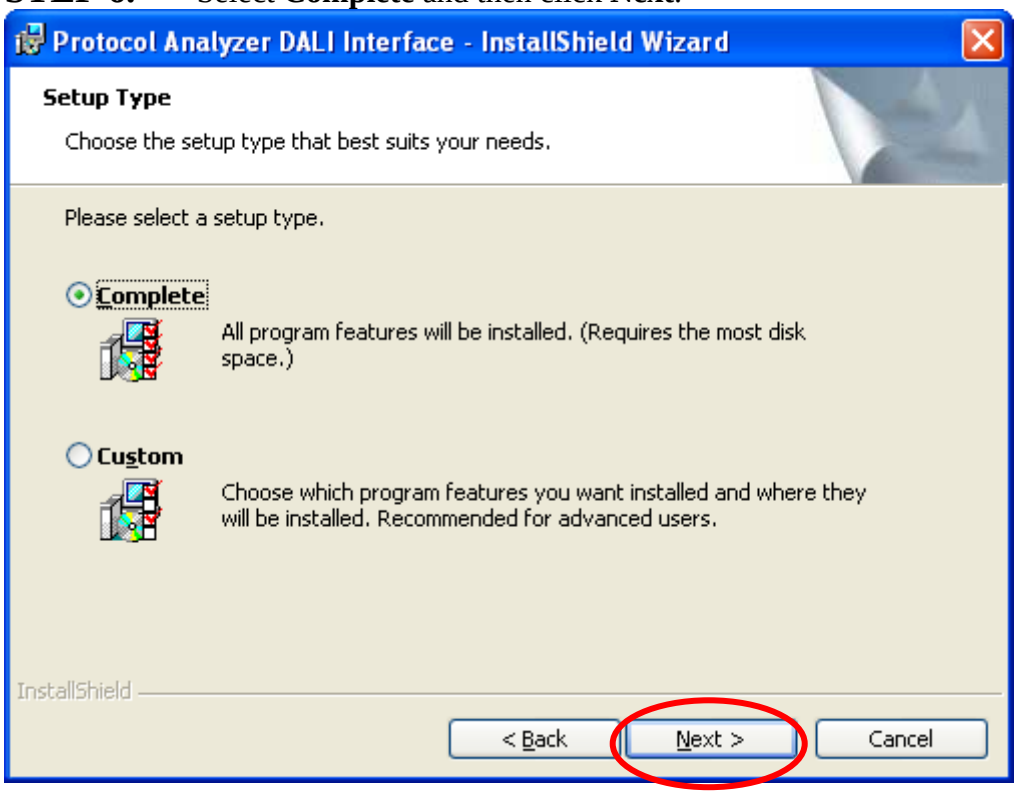
STEP 5. Fill in users' information in the below dialog box and click **Next**.



STEP 6. Select **Complete** and then click **Next**.



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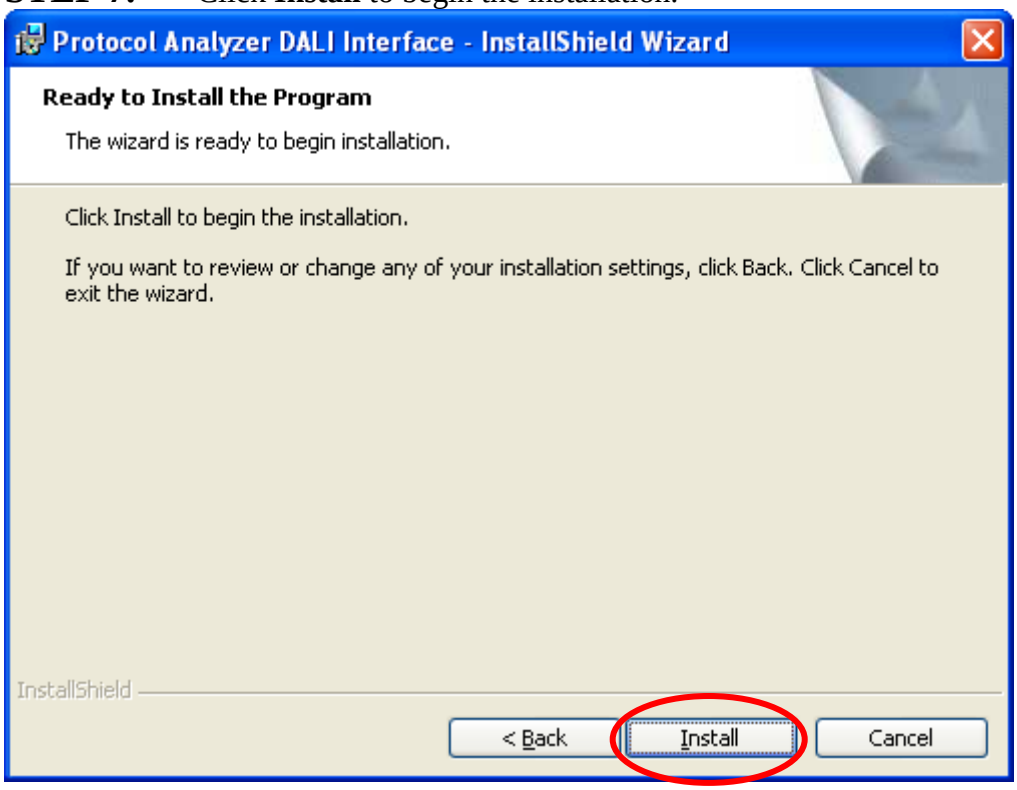
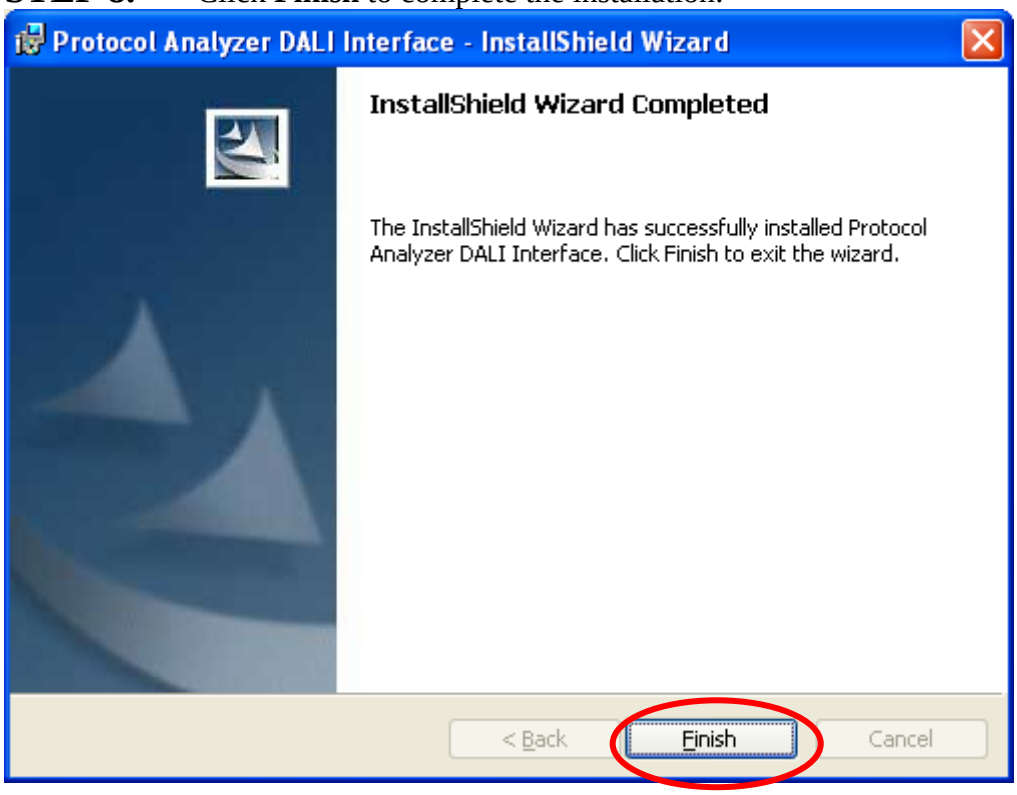
STEP 7. Click **Install** to begin the installation.



STEP 8. Click **Finish** to complete the installation.



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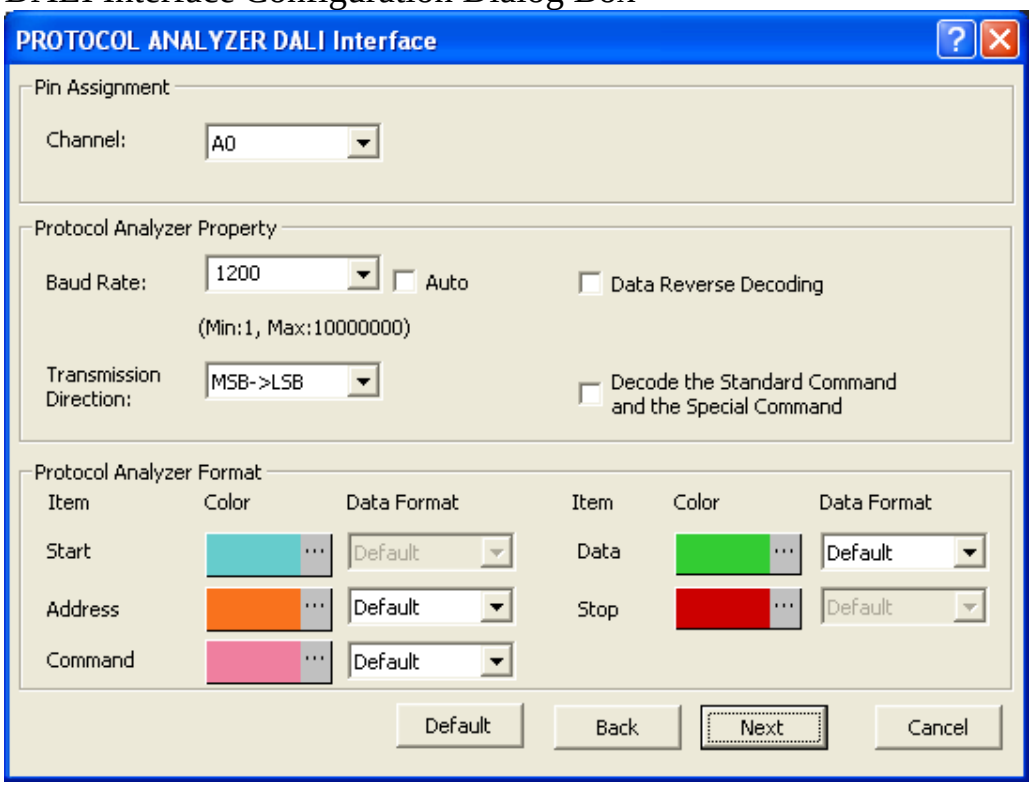
3. User Interface

In the configuration, please refer to the below images to select options of setting DALI Interface module.

DALI Interface Configuration Dialog Box



Pin Assignment:
DALI Interface: It is the Data Transmission Channel.

Protocol Analyzer Property:
Baud Rate: Users can set it in the range from 1 to 10000000 as their requirements or select the value (1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400, 460800 and 921600) from the pull-down menu, and the default is 1200.
Auto: When the option is selected, the baud rate will be judged automatically, and it is available when the error is small.
Transmission Direction: Set the Direction to MSB->LSB or LSB->MSB.
Data Reverse Decoding: The Protocol Analyzer DALI Interface uses two wires to transmit the data. When it is decoded, one wire is enough, so the other wire is used as the Data Reverse Decoding.
Decode the Standard Command and the Special Command: It can be switched between decoding the specific Command and not decoding the specific Command. That is to say, if the option is not selected, the specific Command will not be decoded.

Protocol Analyzer Format:
The Color of each Item can be varied as the users' requirements. The Items (Address, Command and Data) can be set as Binary, Decimal, Hexadecimal, ASCII or Default. And the Data Format of these Items (Address, Command and Data) 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 (Address, Command and Data) is the Default.

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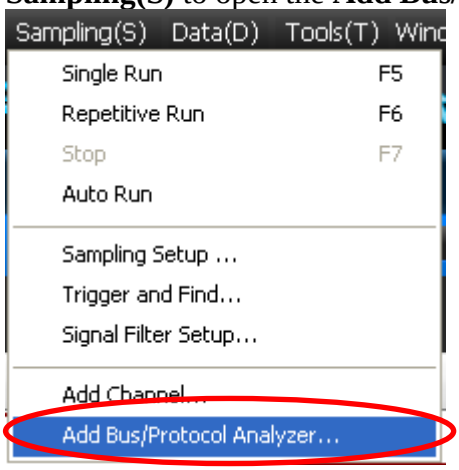
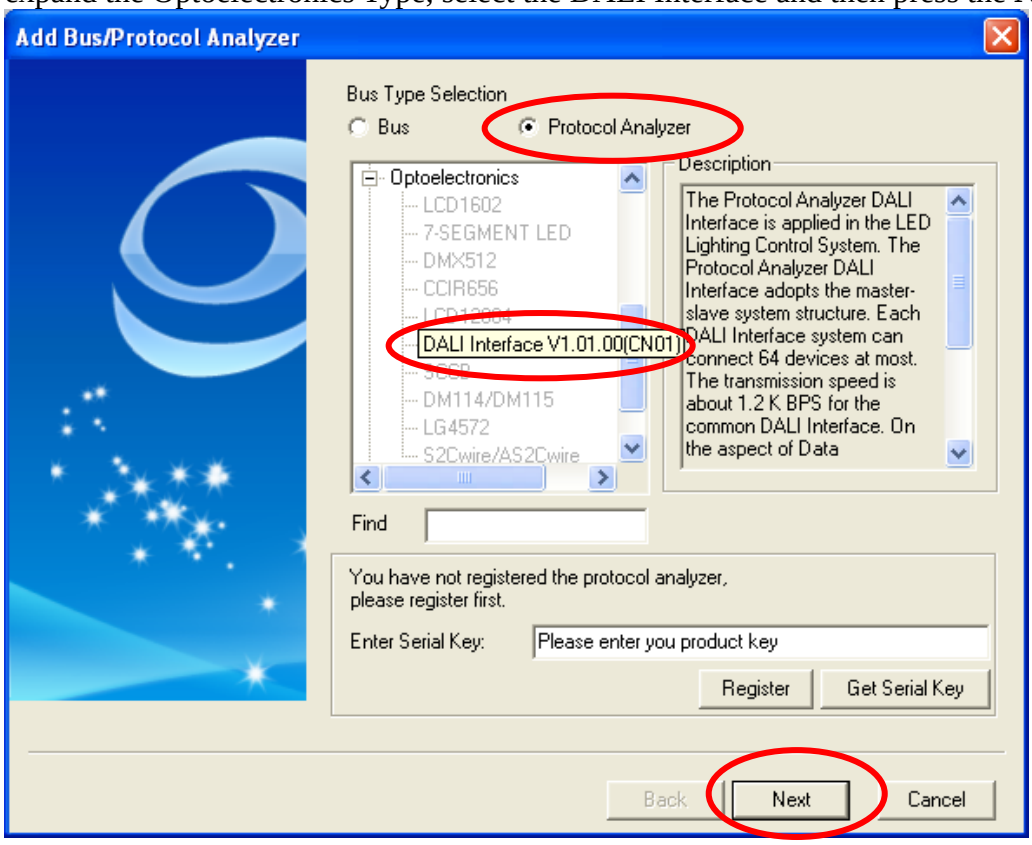
4. Operating Instructions

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 DALI Interface and then press the **Next**.



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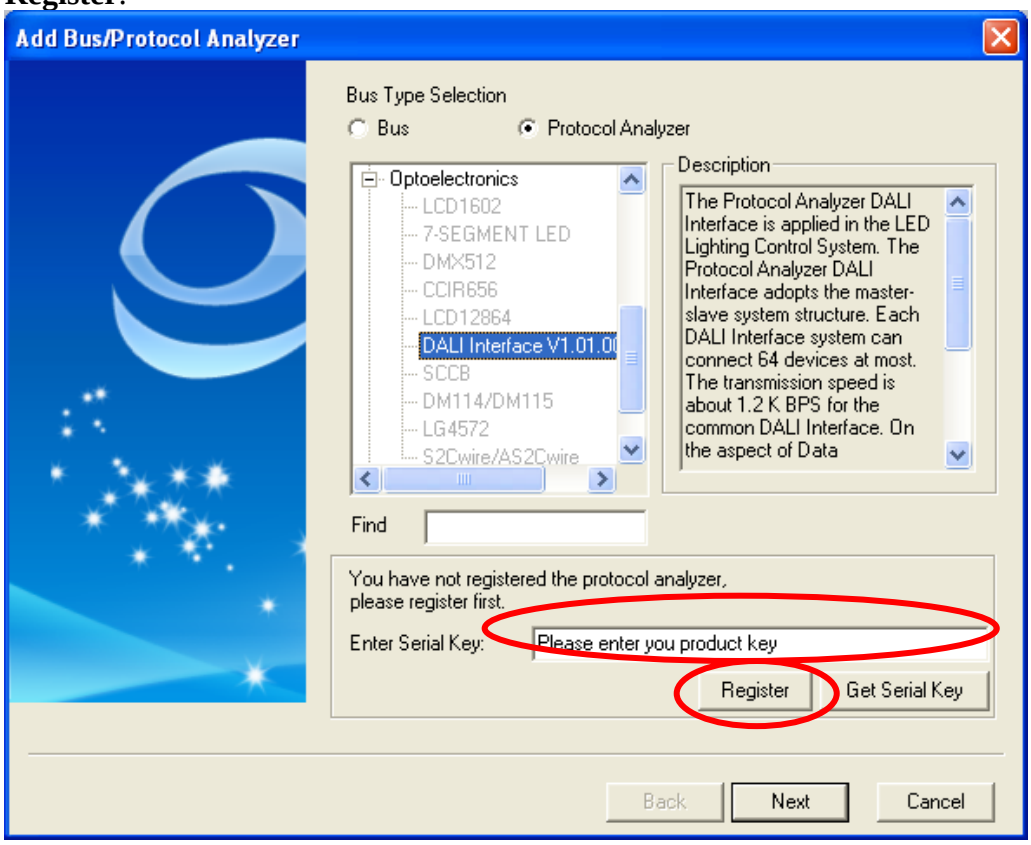
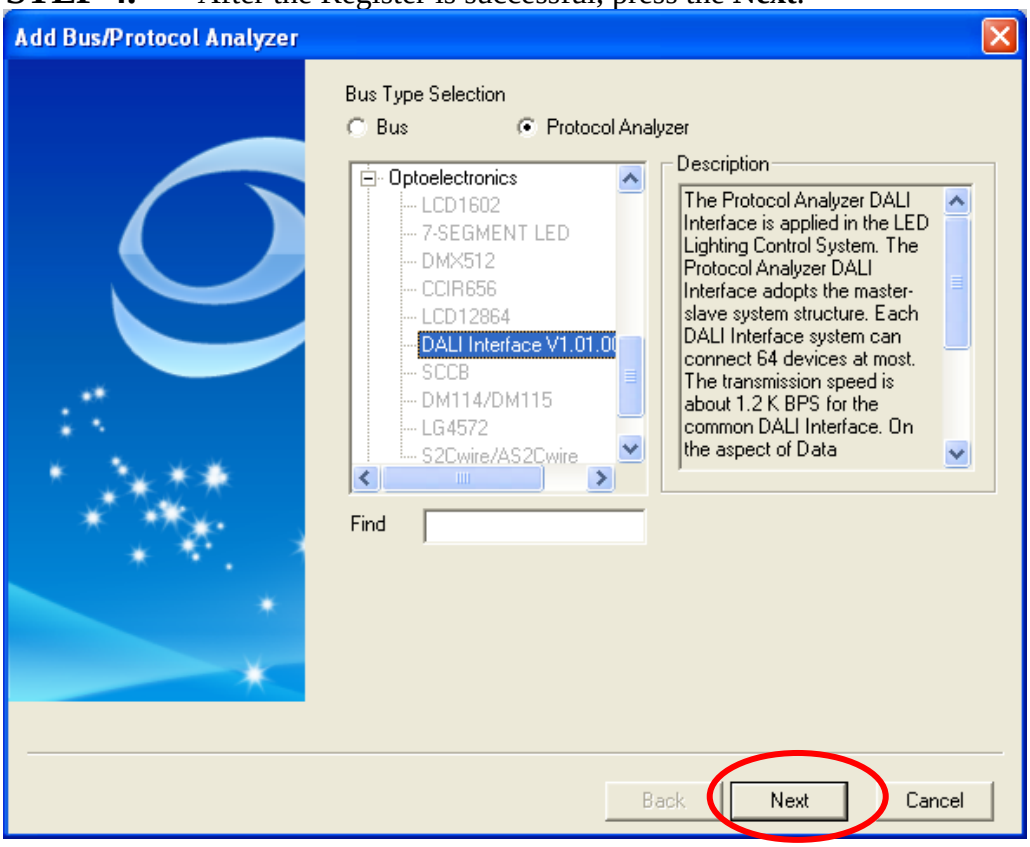
STEP 3. Enter the Serial Key of the DALI Interface under this Model, and then press the **Register**.



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



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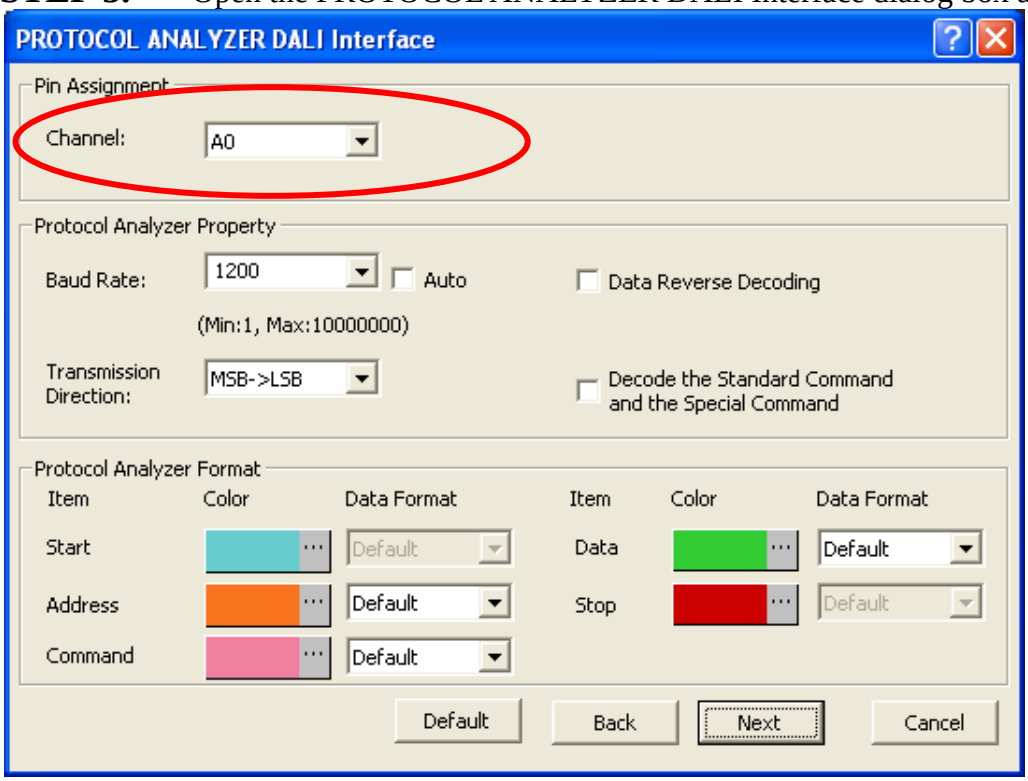
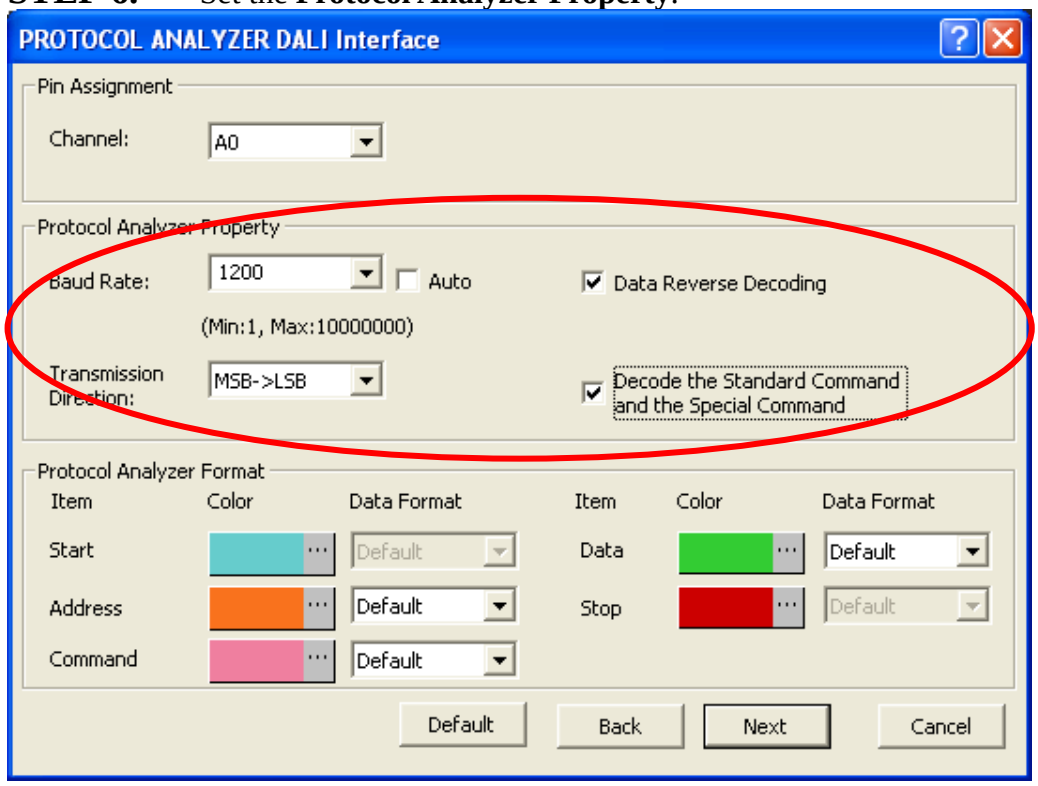
STEP 5. Open the PROTOCOL ANALYZER DALI Interface dialog box and set the **Channel**.



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



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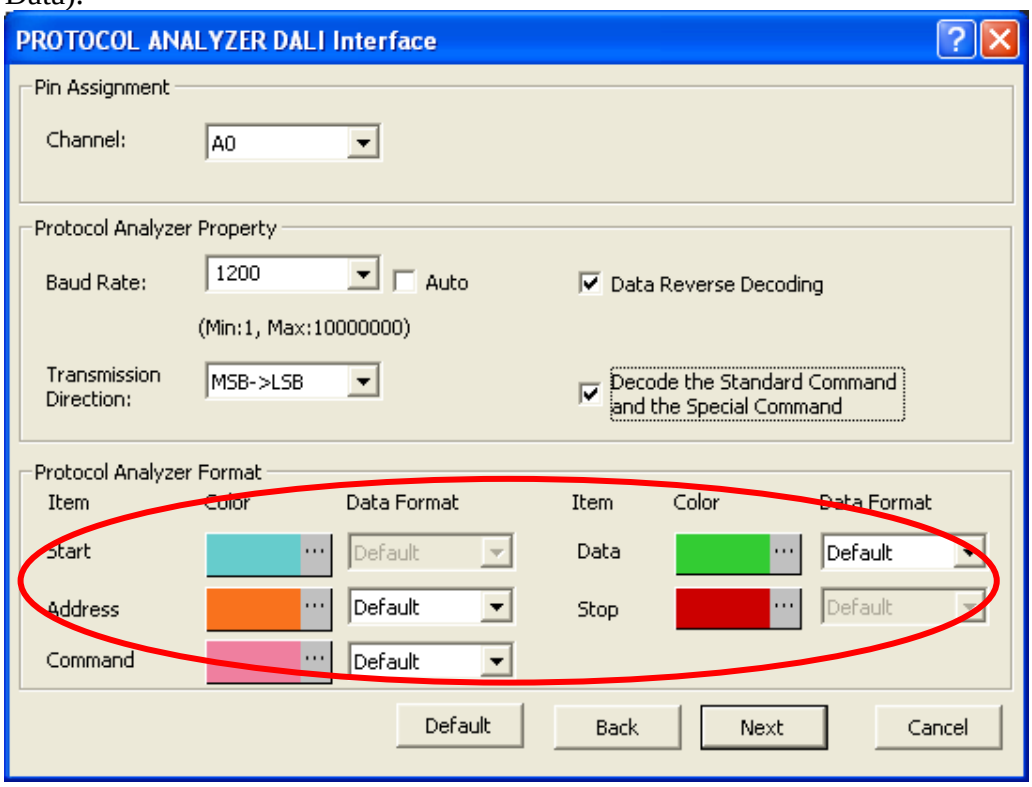
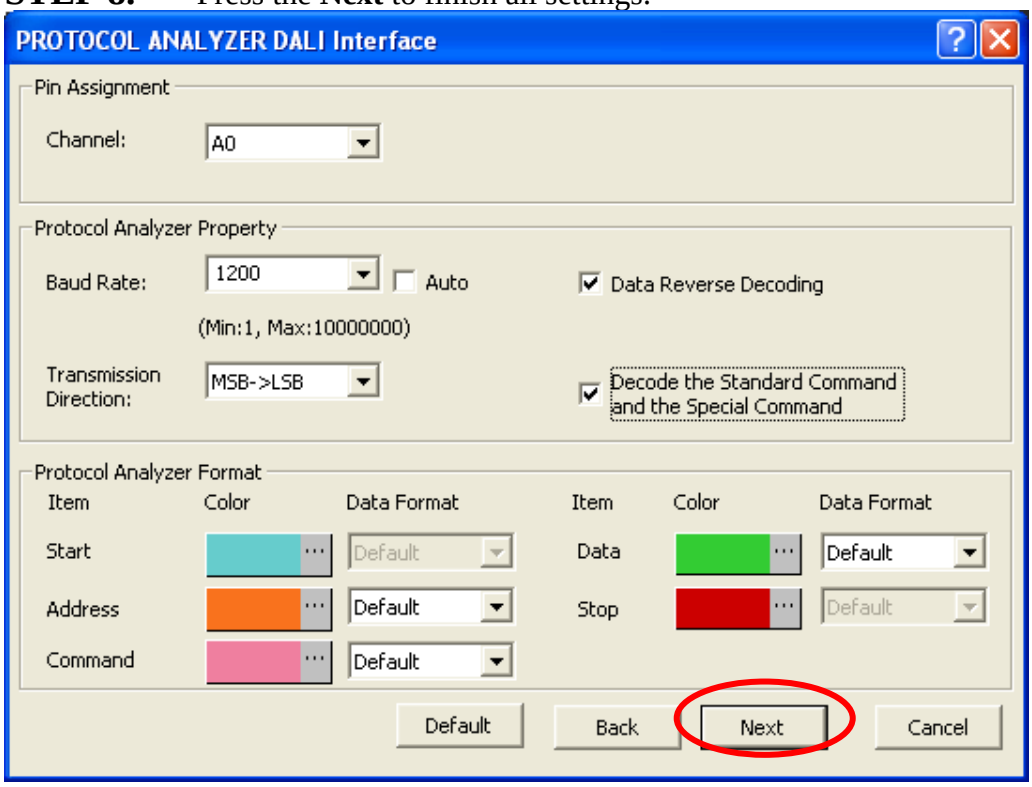
STEP 7. Set the Color of each Item and the Data Format of the Items (Address, Command and Data).



STEP 8. Press the **Next** to finish all settings.



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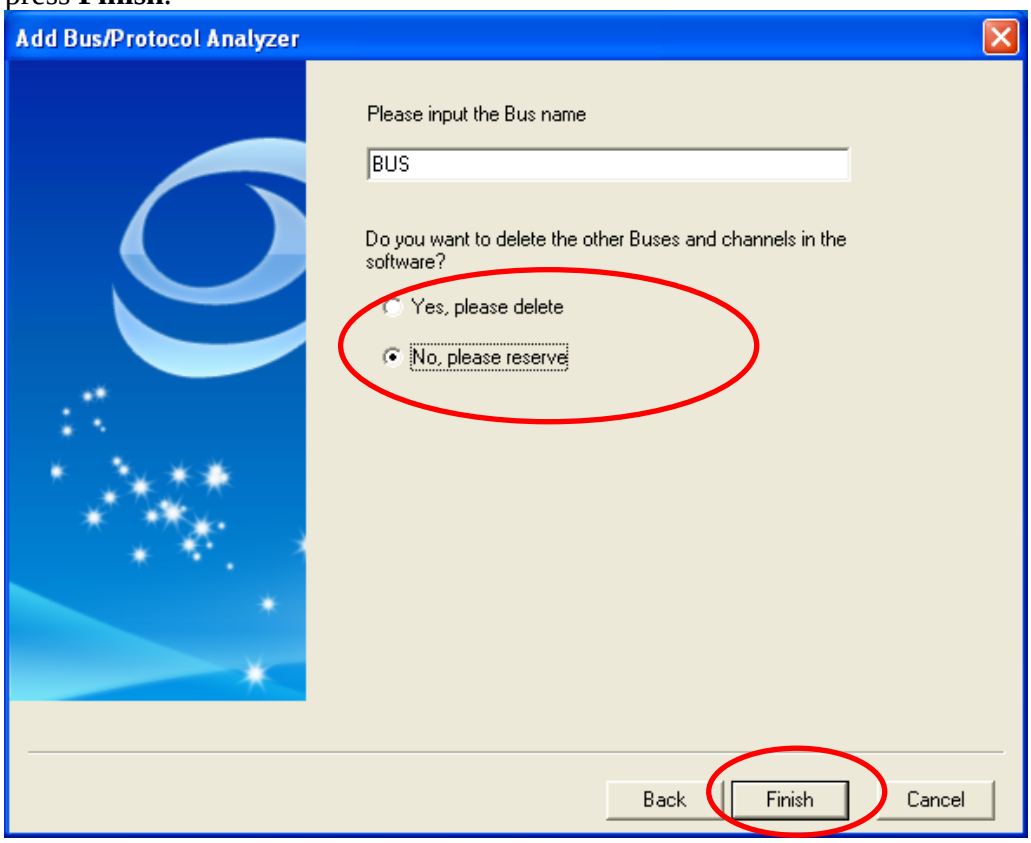
STEP 9. Please enter the Bus Name, select **Yes, please delete** or **No, please reserve** and then press **Finish**.



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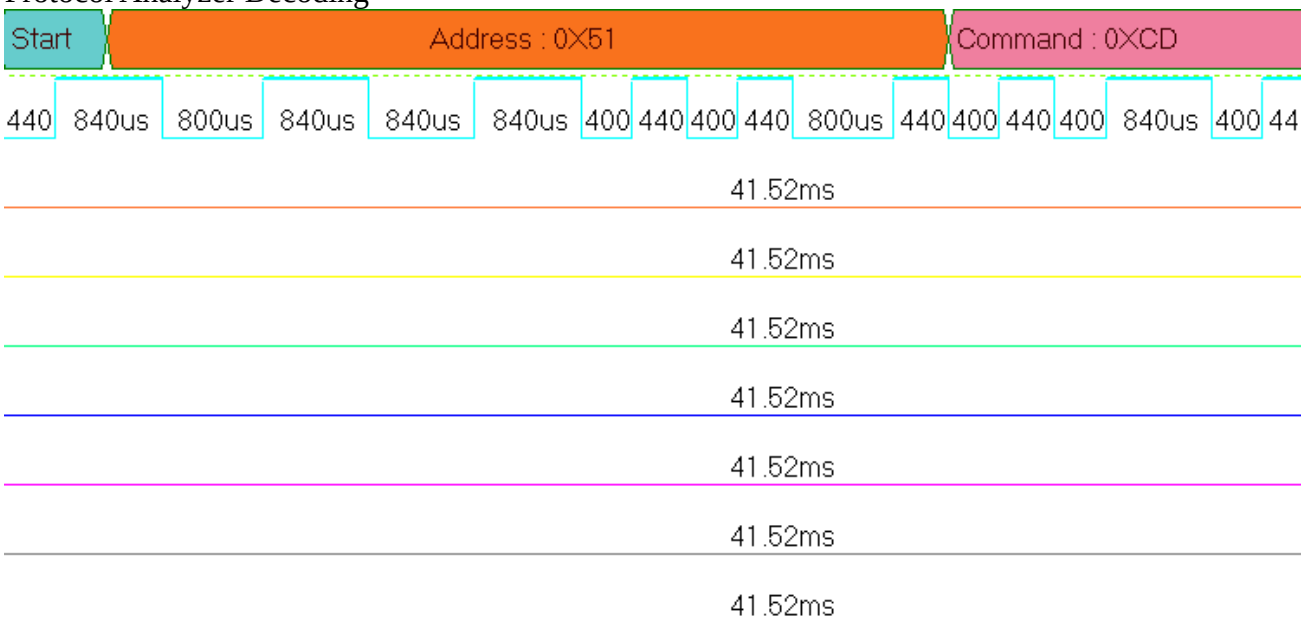
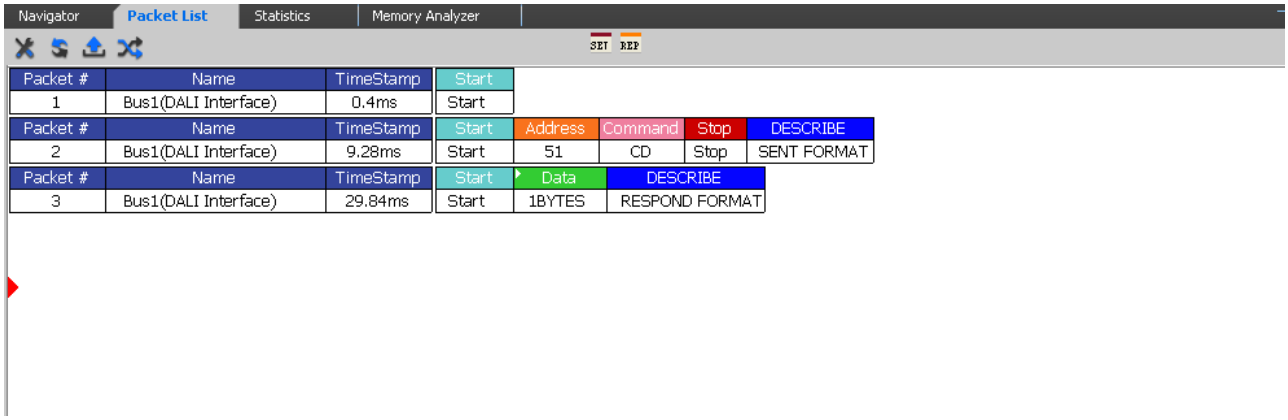
STEP 10. Following pictures show the completion of the protocol analyzer decoding and the packet list. The trigger condition is set as Falling Edge; the memory depth is 2K; the sampling frequency is 25 KHz (the sampling frequency should be more than eight times higher than the signal to be tested).

Protocol Analyzer Decoding



Packet List



Packet #	Name	TimeStamp	Start
1	Bus1(DALI Interface)	0.4ms	Start

Packet #	Name	TimeStamp	Start	Address	Command	Stop	DESCRIBE
2	Bus1(DALI Interface)	9.28ms	Start	51	CD	Stop	SENT FORMAT

Packet #	Name	TimeStamp	Start	Data	DESCRIBE
3	Bus1(DALI Interface)	29.84ms	Start	1BYTES	RESPOND FORMAT

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