



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

SPECIFICATION

MODEL: B09025-LAP-WTB-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.

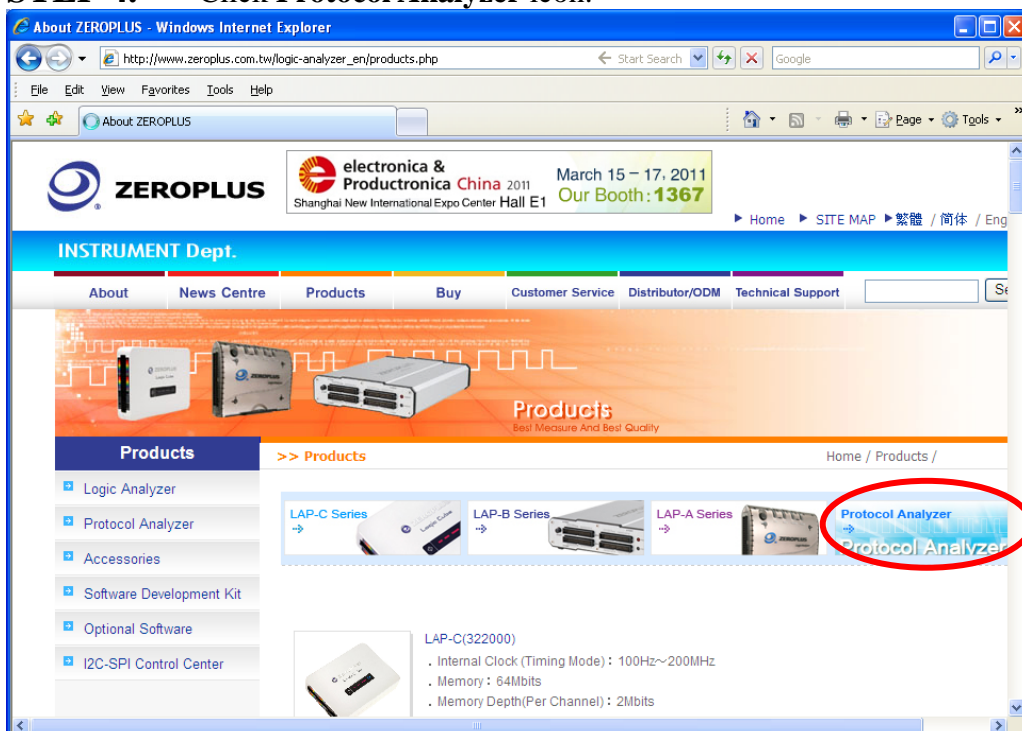




STEP 3. Click **Products** menu or select **Protocol Analyzer** item from its pull-down menu to go straight to STEP 5.

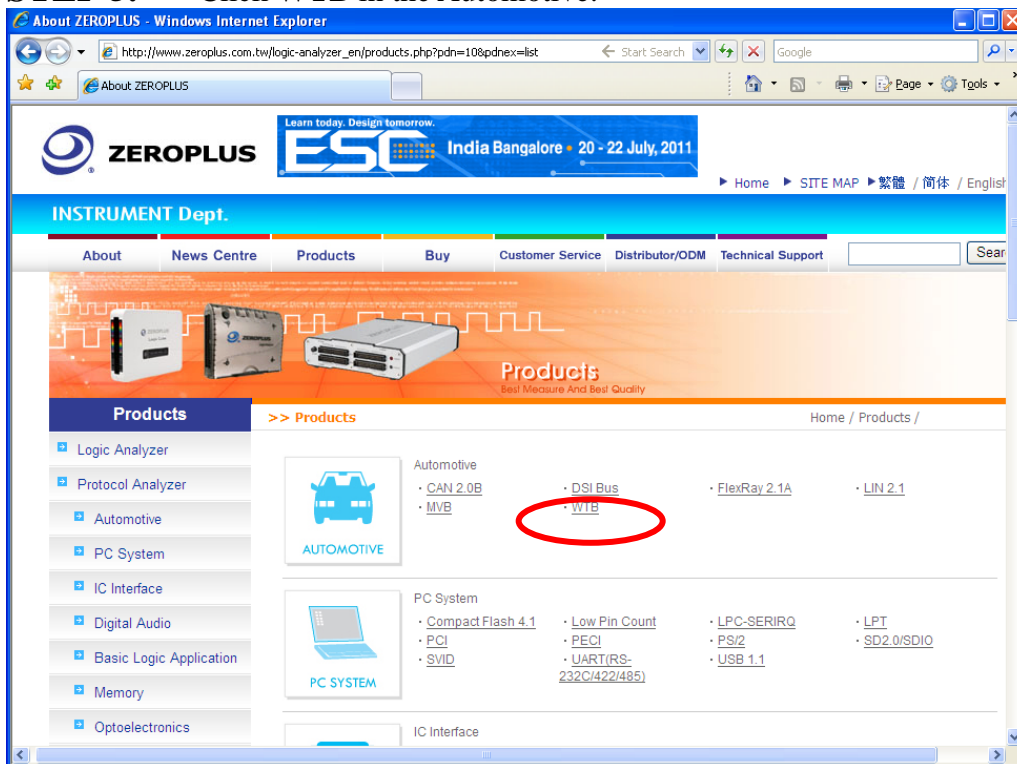


STEP 4. Click **Protocol Analyzer** icon.

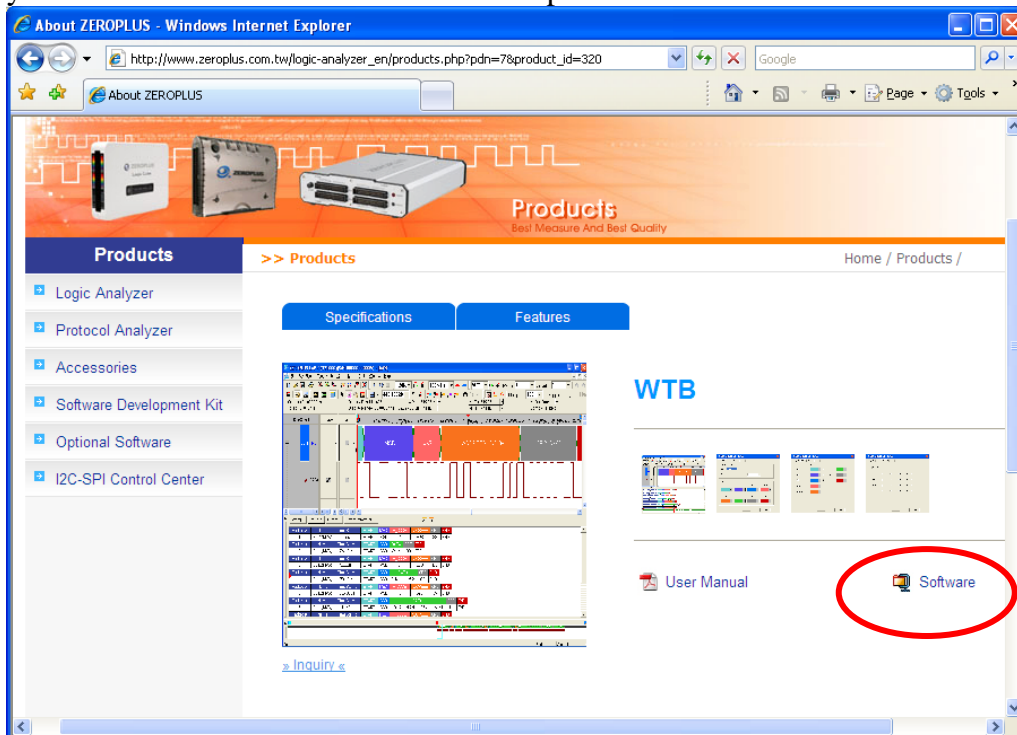




STEP 5. Click **WTB** in the Automotive.



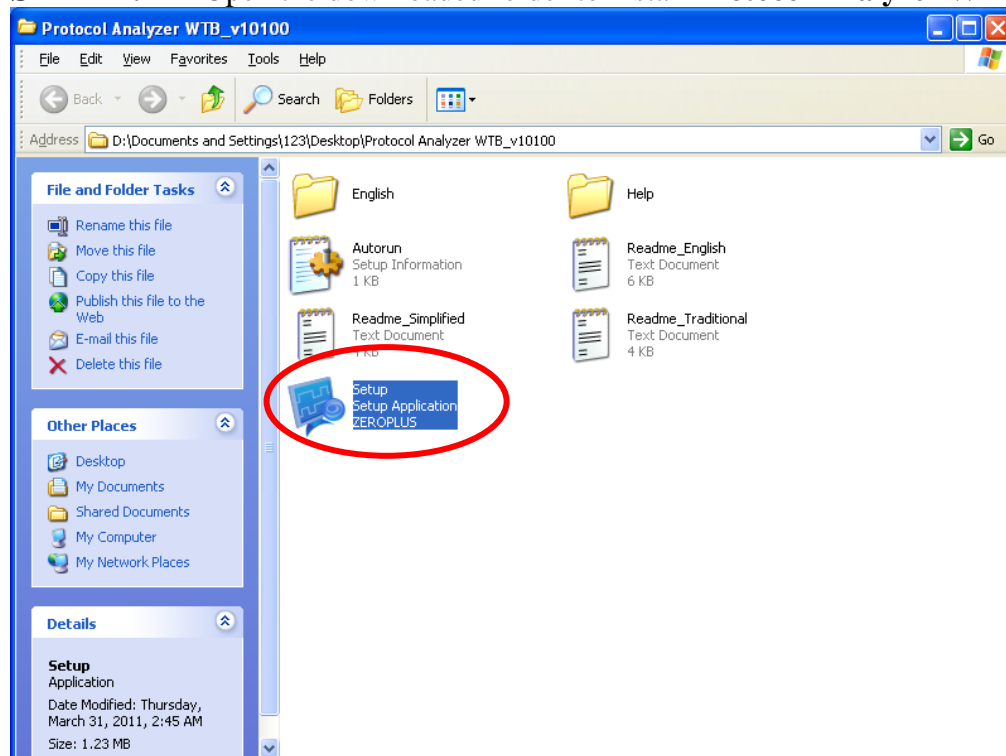
STEP 6. Click **Software** in the Products page. When the File Download dialog box appears, you can click **Save** button to save the compressed files.



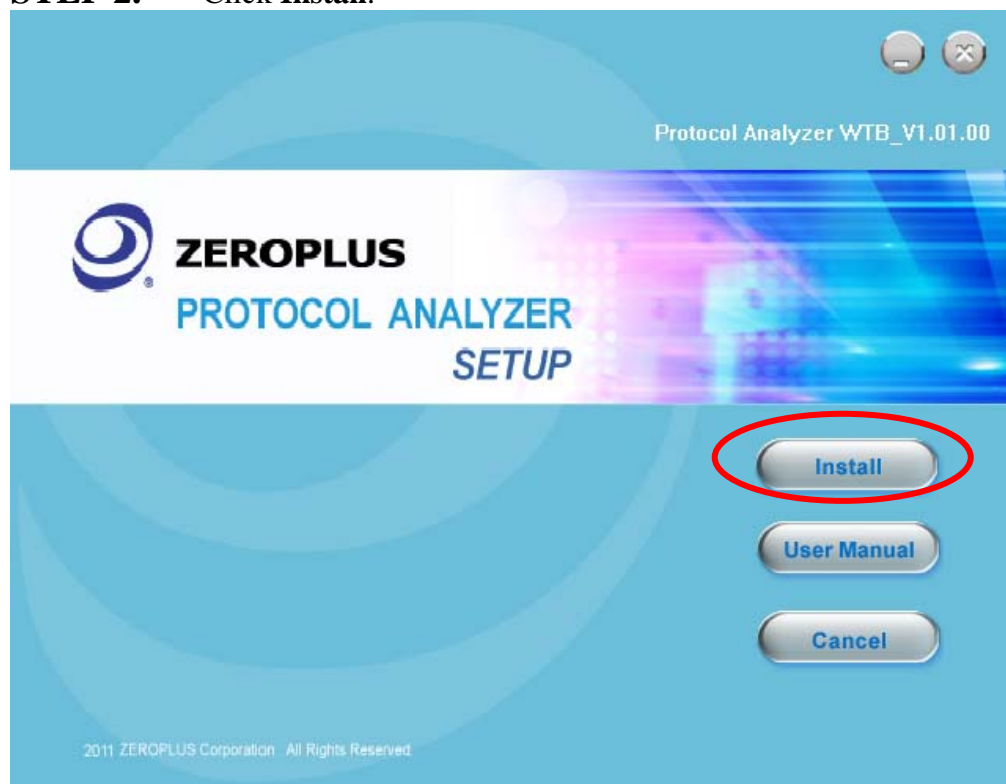


2 Software Installation

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

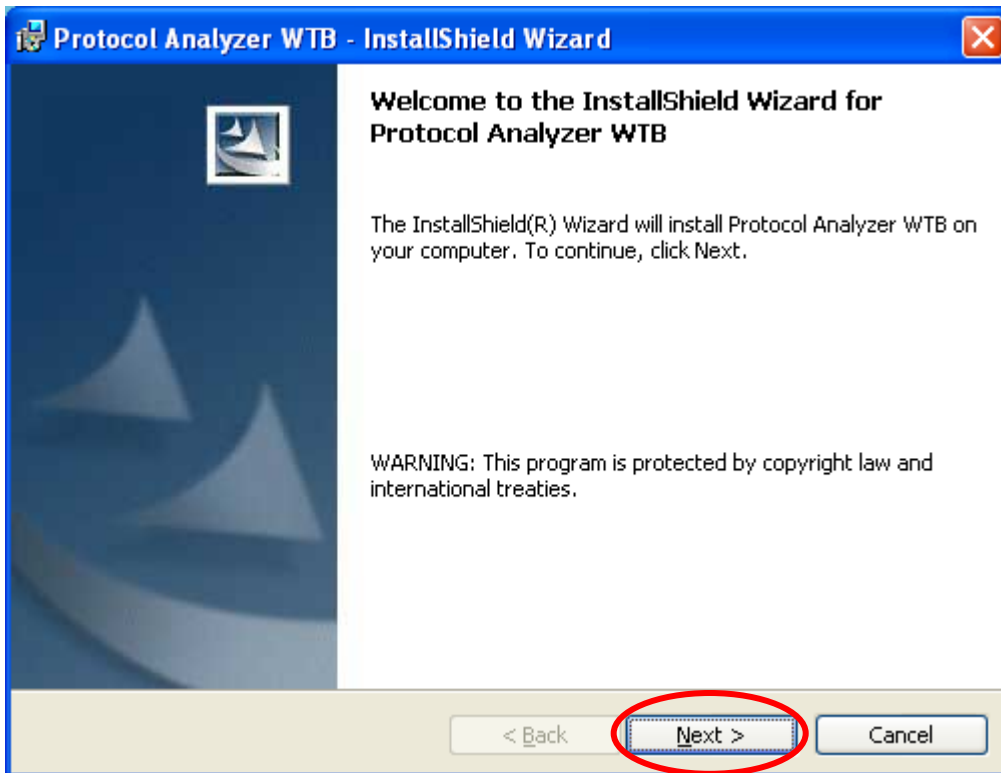


STEP 2. Click **Install**.

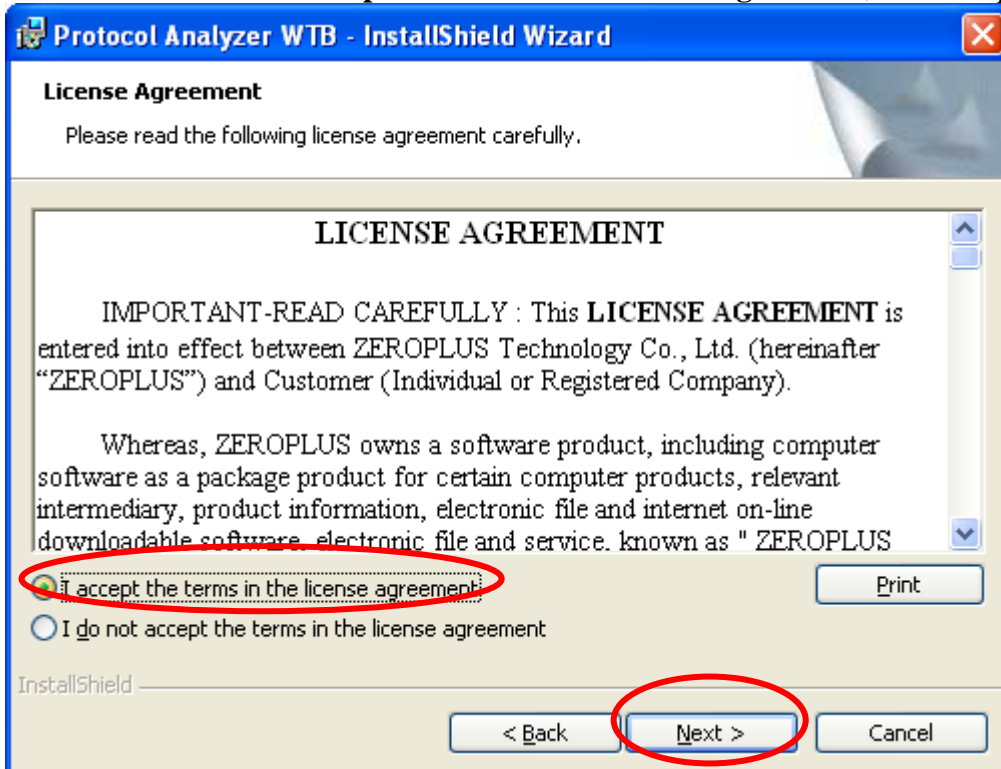




STEP 3. Click Next.



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





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

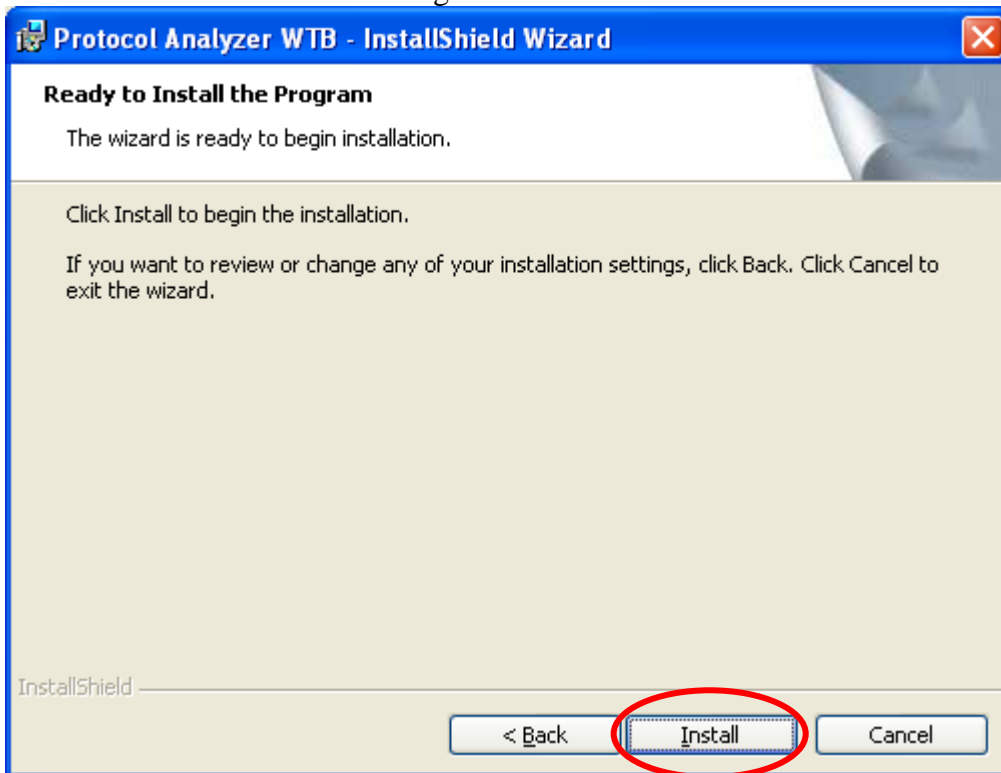
The dialog box is titled "Protocol Analyzer WTB - InstallShield Wizard". It has a blue title bar with a close button. The main area is titled "Customer Information" and contains the text "Please enter your information." Below this are two text input fields: "User Name:" with the text "kelly" and "Organization:" with the text "ZeroPlus". Below these fields are two radio button options: "Anyone who uses this computer (all users)" (selected) and "Only for me (kelly)". At the bottom, there are three buttons: "< Back", "Next >" (circled in red), and "Cancel". The "InstallShield" logo is visible in the bottom left corner.

STEP 6. First, select **Complete** and then click **Next**.

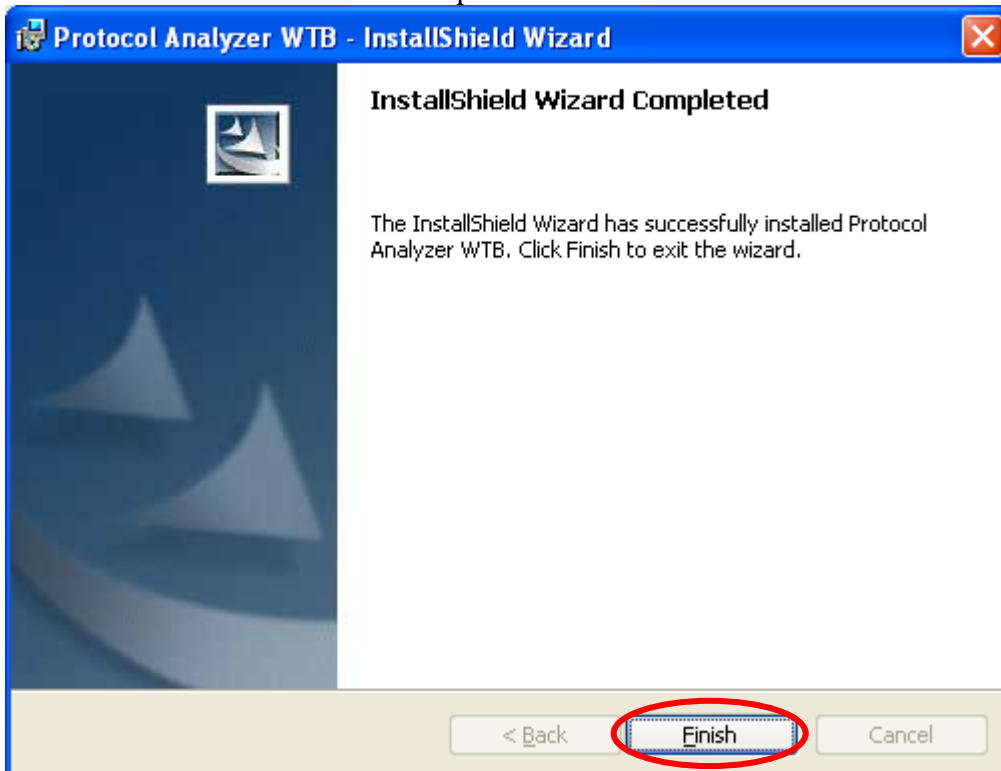
The dialog box is titled "Protocol Analyzer WTB - InstallShield Wizard". It has a blue title bar with a close button. The main area is titled "Setup Type" and contains the text "Choose the setup type that best suits your needs." Below this is the text "Please select a setup type." There are two radio button options: "Complete" (selected) and "Custom". The "Complete" option has a description: "All program features will be installed. (Requires the most disk space.)". The "Custom" option has a description: "Choose which program features you want installed and where they will be installed. Recommended for advanced users." At the bottom, there are three buttons: "< Back", "Next >" (circled in red), and "Cancel". The "InstallShield" logo is visible in the bottom left corner.



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



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





3 User Interface

In the configuration, please refer to the below images to select options of setting **WTB** module.

Pin Assignment			Protocol Analyzer Property		
Channel:	A0		Inaccuracy Rate:	20%	

Protocol Analyzer Format					
Item	Color	Data Format	Item	Color	Data Format
Head	[Green Box]	Default	Source	[Orange Box]	Default
Flag	[Pink Box]	Default	Data Size	[Blue Box]	Default
Data	[Green Box]	Default	FCS/NFCS	[Grey Box]	Default
Destination	[Pink Box]	Default	End	[Red Box]	Default
Link Control	[Orange Box]	Default			

Buttons: Default, Back, Next, Cancel

Pin Assignment:

WTB: It needs one channel to decode signals.

Protocol Analyzer Property:

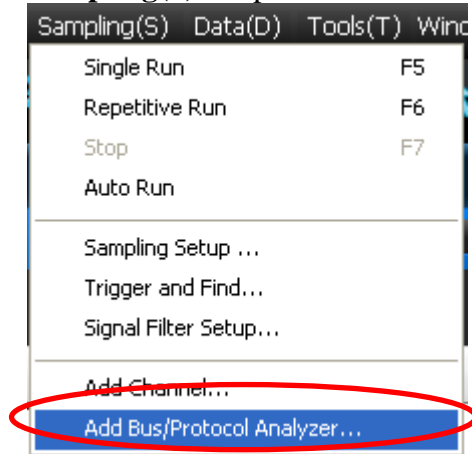
Inaccuracy Rate: It is the Inaccuracy Rate for a bit Time Width; the default is 20%. Specifically, the standard Bit Width of WTB is 1us, and the 20% tolerance means that the Bit Width can be between 0.8us and 1.2us. Further, there are other three values to be selected from the pull-down menu, namely, 5%, 10%, 30%.

Protocol Analyzer Format: Set the displayed color for every packet in the Protocol Analyzer. The Items (Data, Source, FCS/NFCS, Data Size, Destination and Link Control) can be set as Binary, Decimal, Hexadecimal, ASCII or Default. And the Data Format of these Items (Data, Source, FCS/NFCS, Data Size, Destination and Link Control) 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 (Data, Source, FCS/NFCS, Data Size, Destination and Link Control) is the Default.

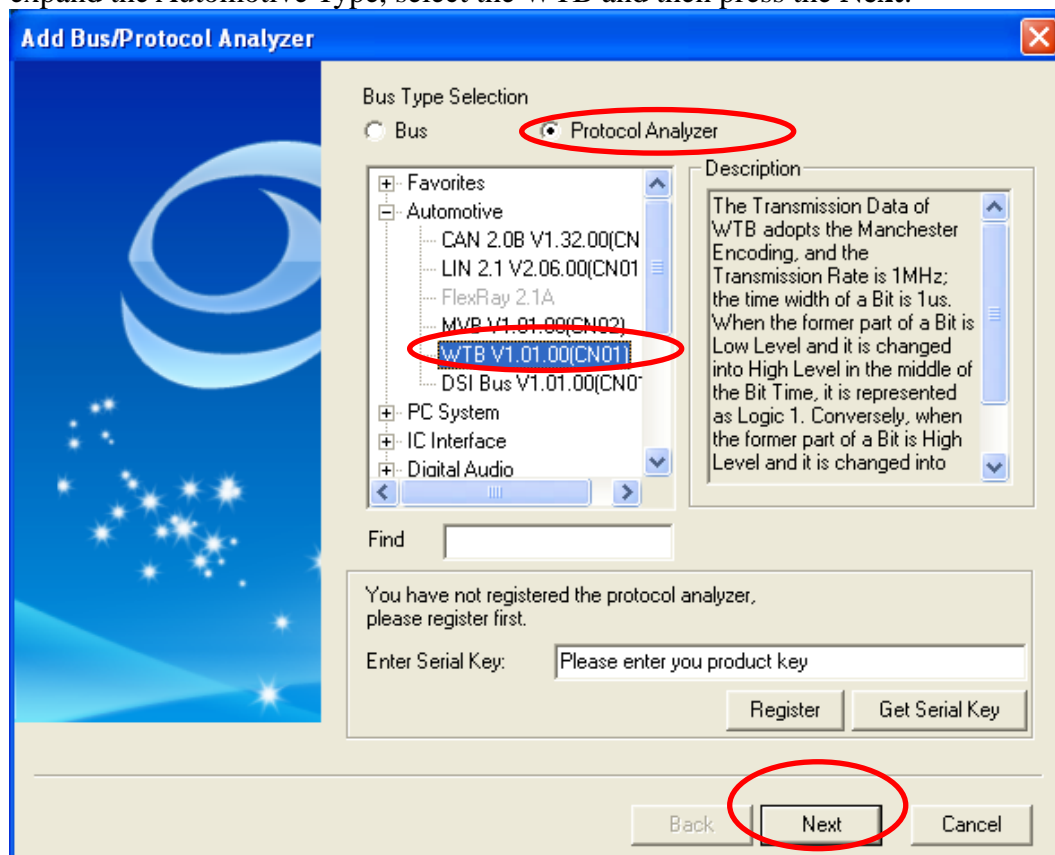


4 Operating Instructions

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.

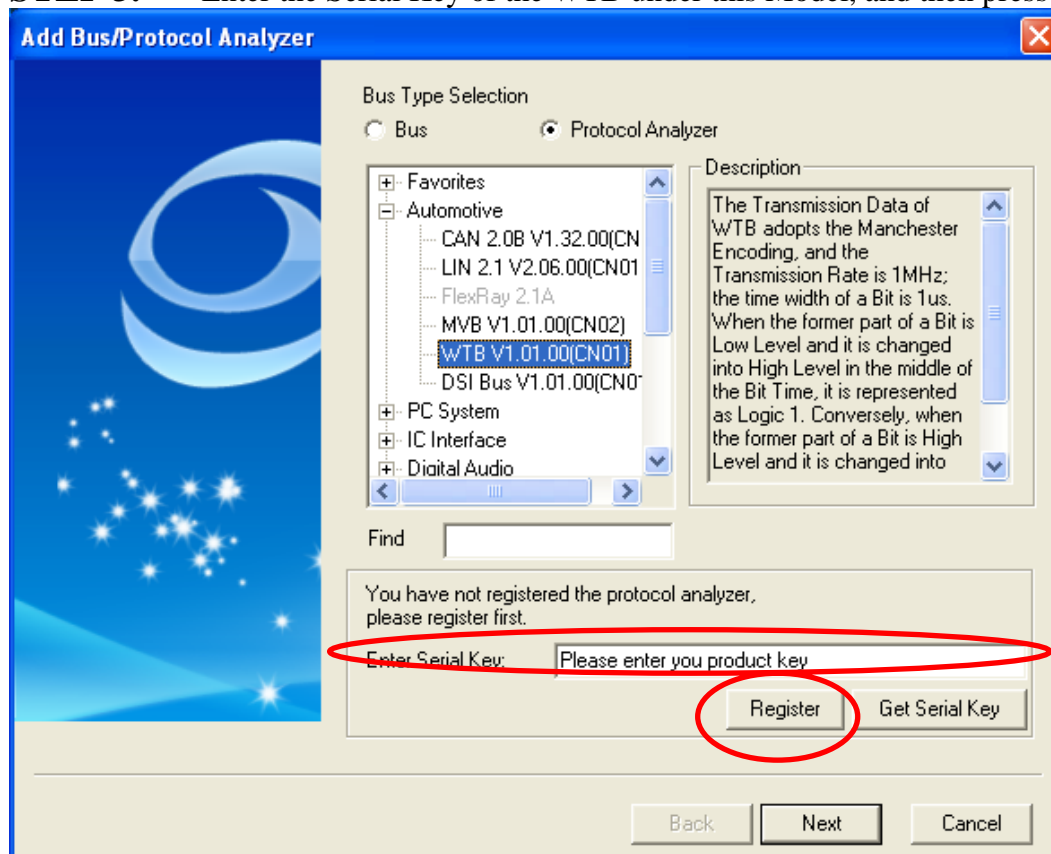


STEP 2. Select the Protocol Analyzer item in the Add Bus/Protocol Analyzer dialog box, expand the Automotive Type, select the WTB and then press the **Next**.

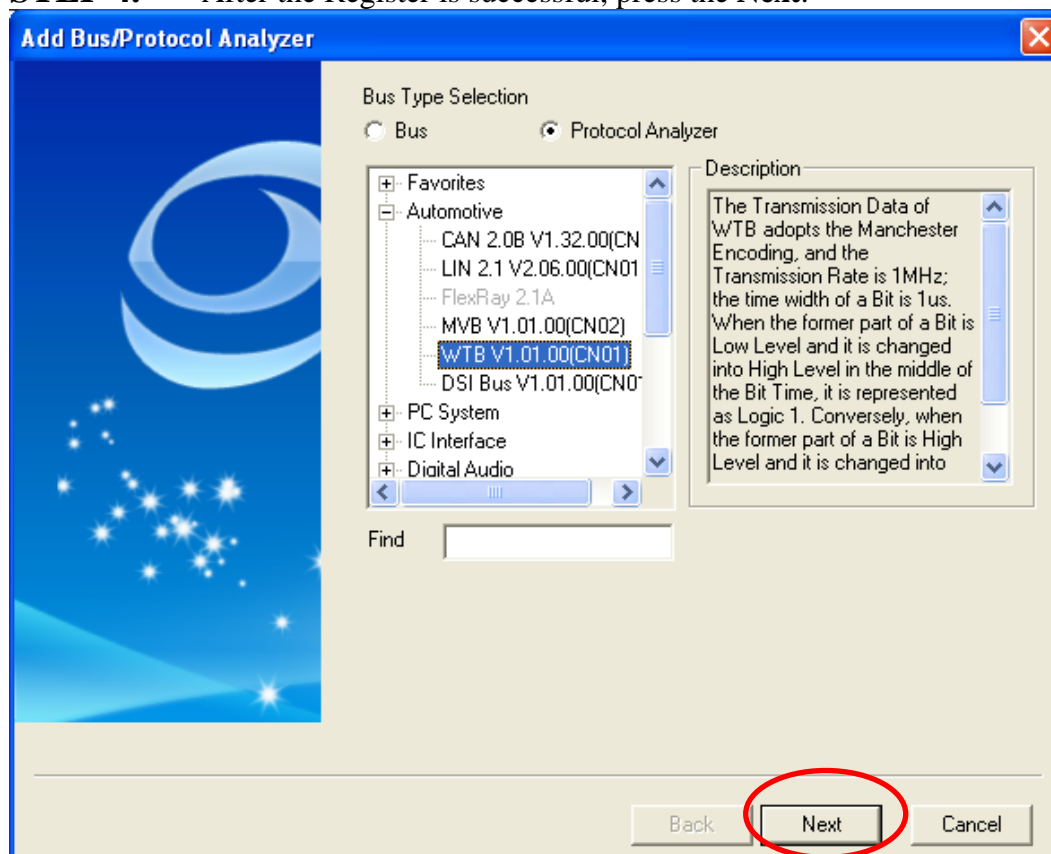




STEP 3. Enter the Serial Key of the WTB under this Model, and then press the **Register**.



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





STEP 5. Set the Channel in the **Pin Assignment**.

PROTOCOL ANALYZER WTB

Pin Assignment

Channel: A0

Protocol Analyzer Property

Inaccuracy Rate: 20%

Protocol Analyzer Format

Item	Color	Data Format
Head		Default
Flag		Default
Data		Default
Destination		Default
Link Control		Default

Item	Color	Data Format
Source		Default
Data Size		Default
FCS/NFCS		Default
End		Default

Default Back Next Cancel

STEP 6. Set **Inaccuracy Rate**. There are four options to be selected from pull-down menu, namely, 5%, 10%, 20% and 30%

PROTOCOL ANALYZER WTB

Pin Assignment

Channel: A0

Protocol Analyzer Property

Inaccuracy Rate: 20%

Protocol Analyzer Format

Item	Color	Data Format
Head		Default
Flag		Default
Data		Default
Destination		Default
Link Control		Default

Item	Color	Data Format
Source		Default
Data Size		Default
FCS/NFCS		Default
End		Default

Default Back Next Cancel



STEP 7. Set the Protocol Analyzer Format.

PROTOCOL ANALYZER WTB

Pin Assignment: Channel: A0

Protocol Analyzer Property: Inaccuracy Rate: 20%

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Head		Default	Source		Default
Flag		Default	Data Size		Default
Data		Default	FCS/NFCS		Default
Destination		Default	End		Default
Link Control		Default			

Buttons: Default, Back, Next, Cancel

STEP 8. Press the Next to finish all settings.

PROTOCOL ANALYZER WTB

Pin Assignment: Channel: A0

Protocol Analyzer Property: Inaccuracy Rate: 20%

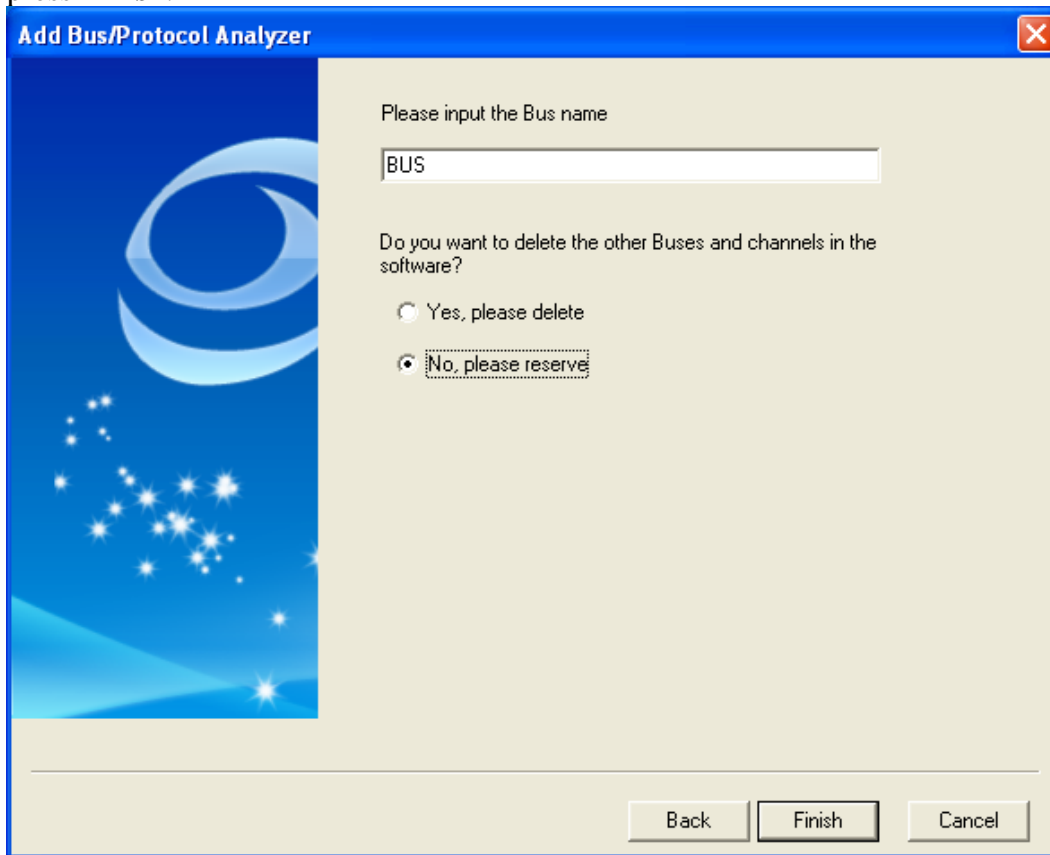
Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Head		Default	Source		Default
Flag		Default	Data Size		Default
Data		Default	FCS/NFCS		Default
Destination		Default	End		Default
Link Control		Default			

Buttons: Default, Back, **Next**, Cancel

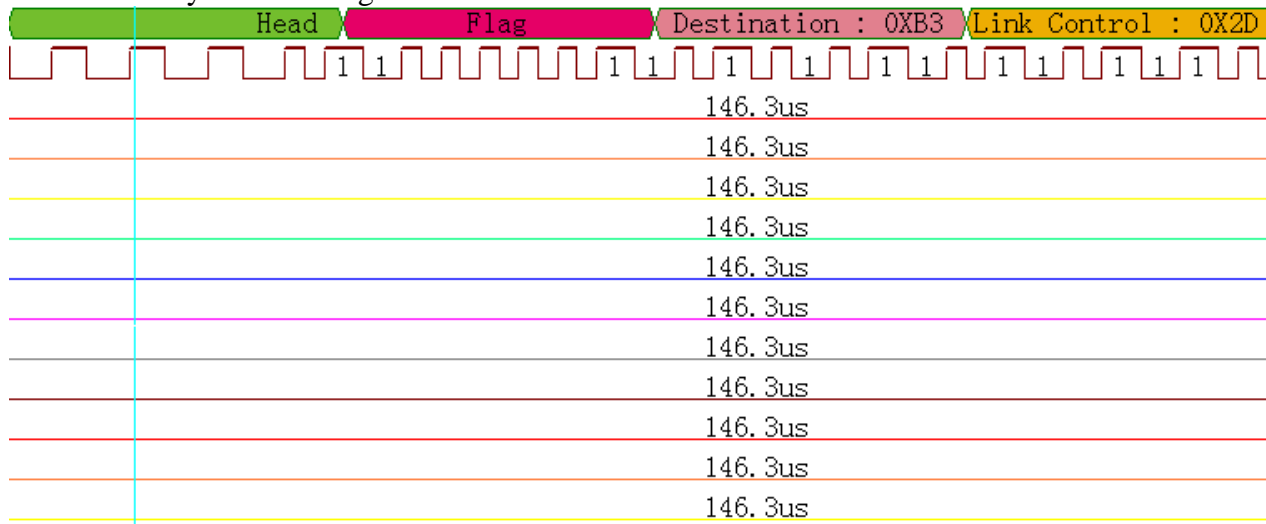


STEP 9. Please enter the Bus Name, select **Yes, please delete** or **No, please reserve** and then press **Finish**.



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

Protocol Analyzer Decoding





Packet List

Navigator Packet List Statistics Memory Analyzer										
Packet #	Name	TimeStamp	Head	Flag	Destination	Link Control	Source	Data Size	Data	
1	Bus1(WTB)	-0.0005ms	Head	Flag	B3	2D	15	0A	5BYTES	