



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

SPECIFICATION

MODEL: B08033-LAP-ISO7816 UART-M

PART NO : _____

VERSION : V1.02

Approver		Check	Design
GM	PM		

Customer Confirm

* Please fax the file to
Zeroplus Technology after
signing.

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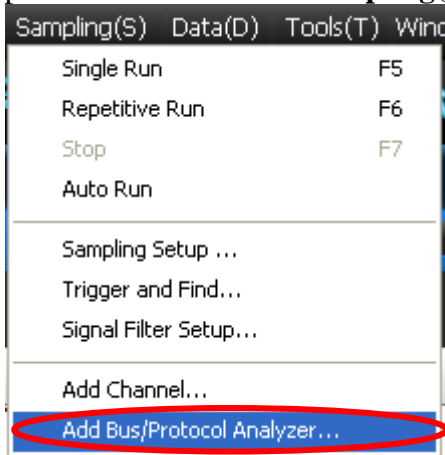
1 Software Register

Please register the software as the following steps:

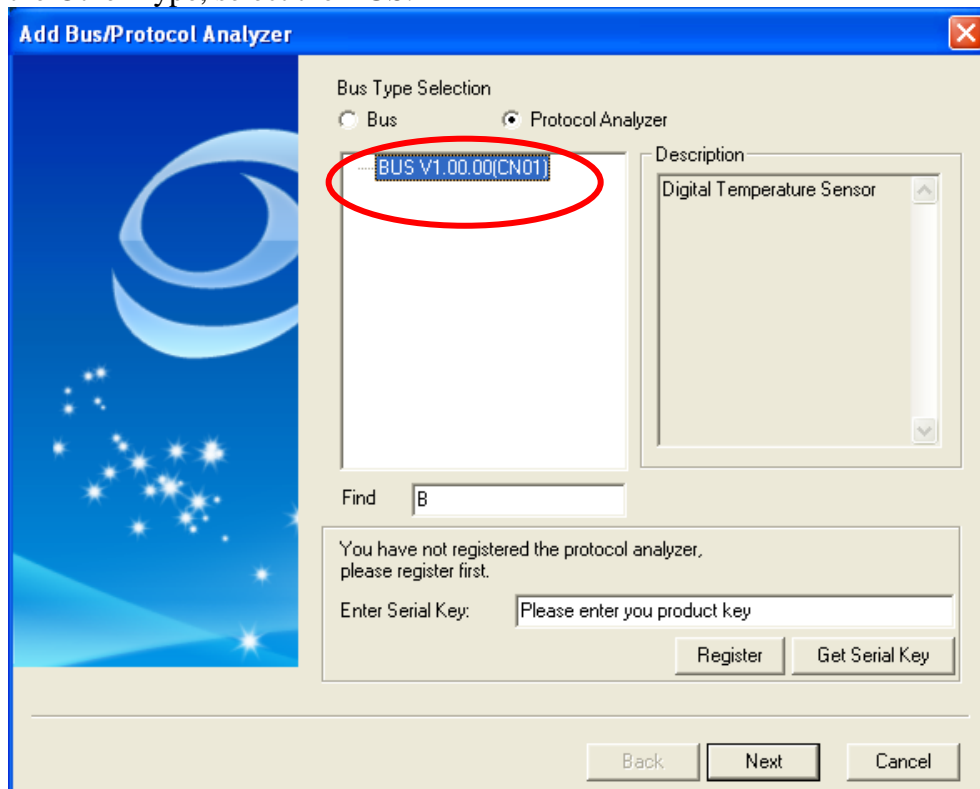
※ Remark: 1. The registration steps for all protocol analyzers are the same, you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.

※ Remark: 2. 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

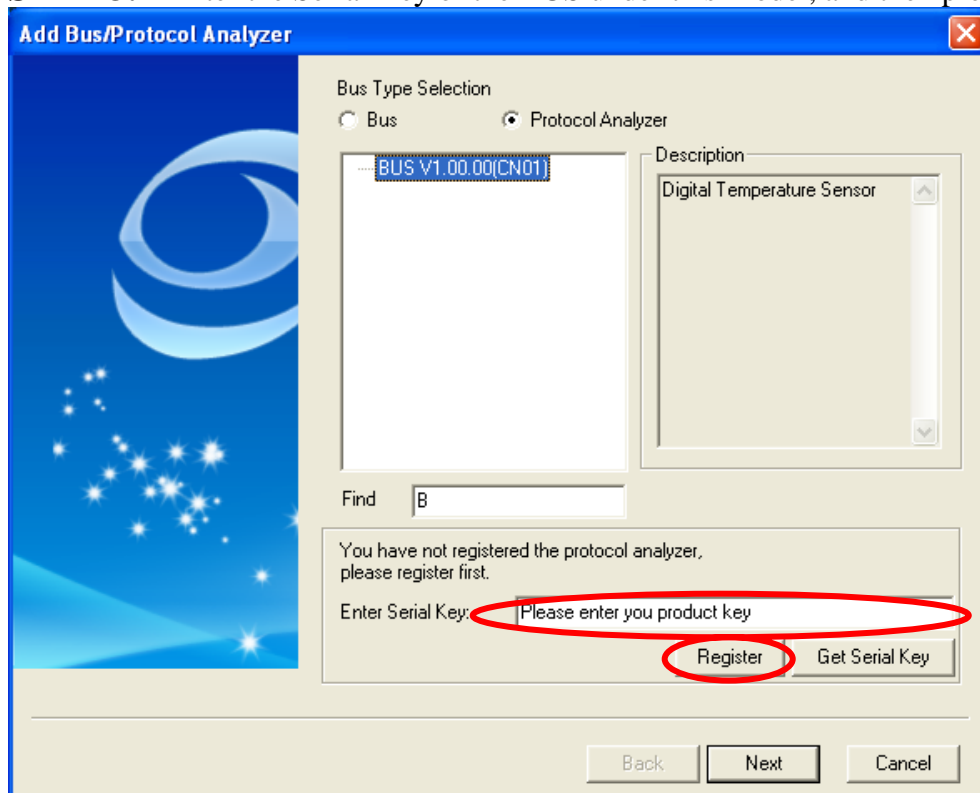


STEP 2. Select Protocol Analyzer item in the Add Bus/Protocol Analyzer dialog box, expand the Other Type, select the BUS.

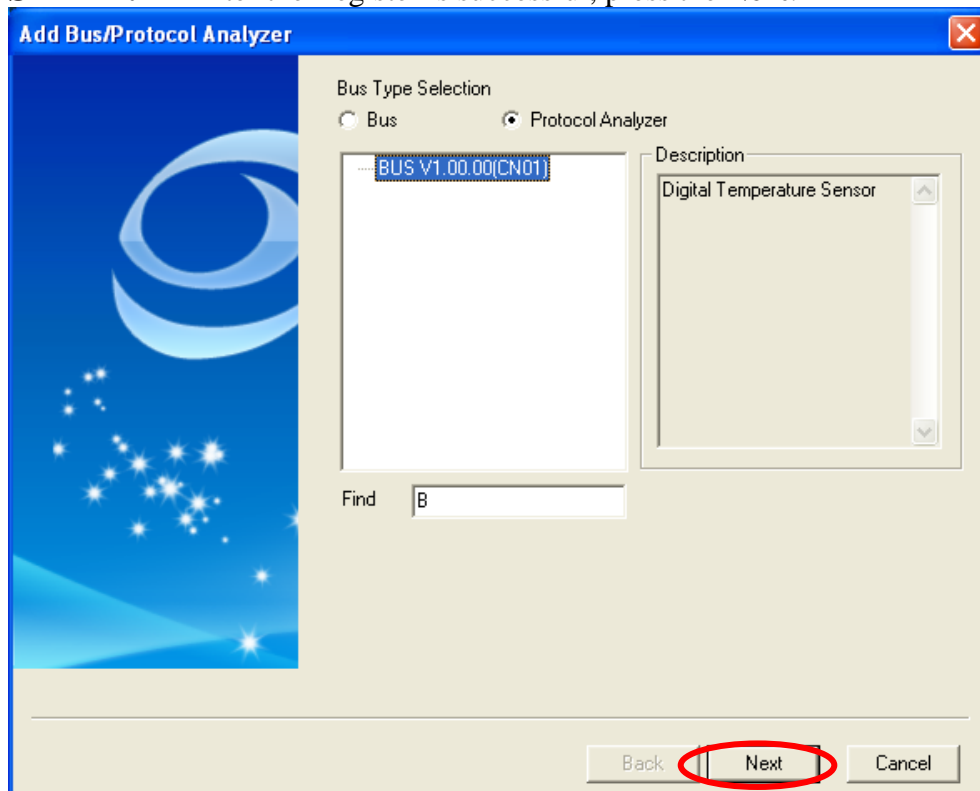




STEP 3. Enter the Serial Key of the BUS under this Model, and then press the **Register**.



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





2 User Interface

Please refer to the below image to select options of setting ISO7816 UART Module.

PROTOCOL ANALYZER ISO7816 UART

Pin Assignment
Data: A0 CLK: A1

Protocol Analyzer Property
ETU: 16 Periods
(Min:16,Max:2048)
☐ Data Reverse Decoding

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Start		Default	Parity		Default
Data		Default	Stop		Default

Default Back Next Cancel

Pin Assignment:

Users can choose two channels, A0 is default for Data, A1 is default for CLK.

Protocol Analyzer Property:

ETU(the number of CLK period for one BIT): The optional values are 16, 256, 372 and 512, users can key in the value between 16 and 2048.

Data Reverse Decoding: This option is to set the data of reverse decoding.

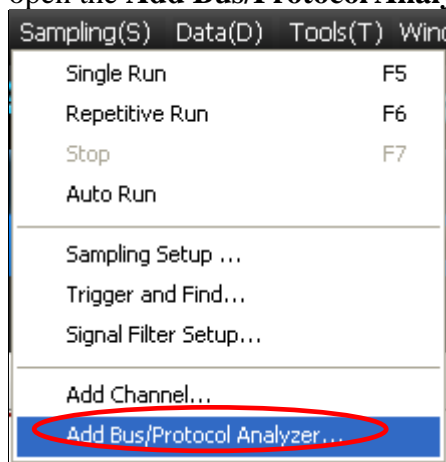
Protocol Analyzer Format:

The protocol analyzer colors can be varied by users. The Item (Data) can be set as Binary, Decimal, Hexadecimal, ASCII or Default. And the Data Format of Item (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 item (Data) is the Default.

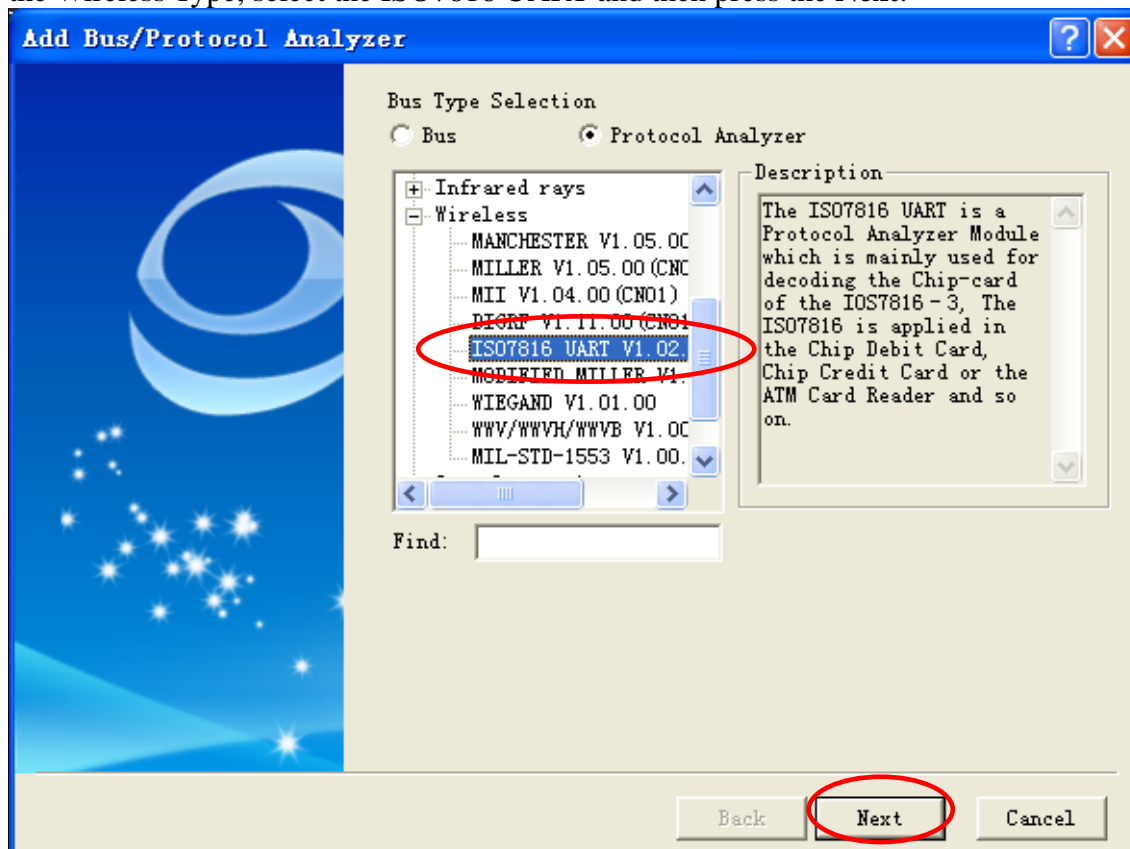


3. Operating Instructions

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 Wireless Type, select the ISO7816 UART and then press the **Next**.





STEP 3. Pin Assignment.

PROTOCOL ANALYZER ISO7816 UART

Pin Assignment

Data: A0 CLK: A1

Protocol Analyzer Property

ETU: 16 Periods (Min:16,Max:2048) ☐ Data Reverse Decoding

Protocol Analyzer Format

Item	Color	Data Format
Start	Cyan	Default
Data	Green	Default
Parity	Purple	Default
Stop	Red	Default

Default Back Next Cancel

STEP 4. Set the Protocol Analyzer Property.

PROTOCOL ANALYZER ISO7816 UART

Pin Assignment

Data: A0 CLK: A1

Protocol Analyzer Property

ETU: 16 Periods (Min:16,Max:2048) ☐ Data Reverse Decoding

Protocol Analyzer Format

Item	Color	Data Format
Start	Cyan	Default
Data	Green	Default
Parity	Purple	Default
Stop	Red	Default

Default Back Next Cancel



STEP 5. Set the Protocol Analyzer Format.

PROTOCOL ANALYZER ISO7816 UART

Pin Assignment
Data: A0 CLK: A1

Protocol Analyzer Property
ETU: 16 Periods (Min:16,Max:2048)
☐ Data Reverse Decoding

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Start		Default	Parity		Default
Data		Default	Stop		Default

Default Back Next Cancel

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

PROTOCOL ANALYZER ISO7816 UART

Pin Assignment
Data: A0 CLK: A1

Protocol Analyzer Property
ETU: 16 Periods (Min:16,Max:2048)
☐ Data Reverse Decoding

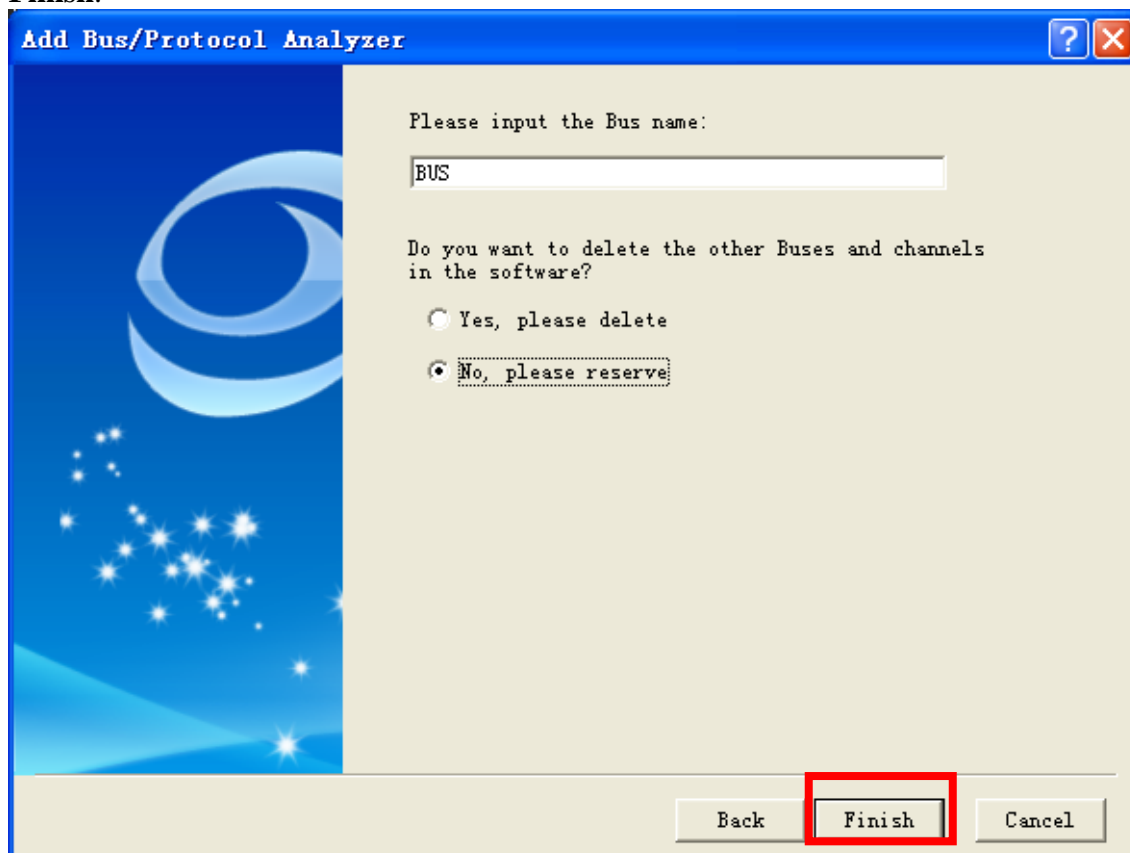
Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Start		Default	Parity		Default
Data		Default	Stop		Default

Default Back Next Cancel

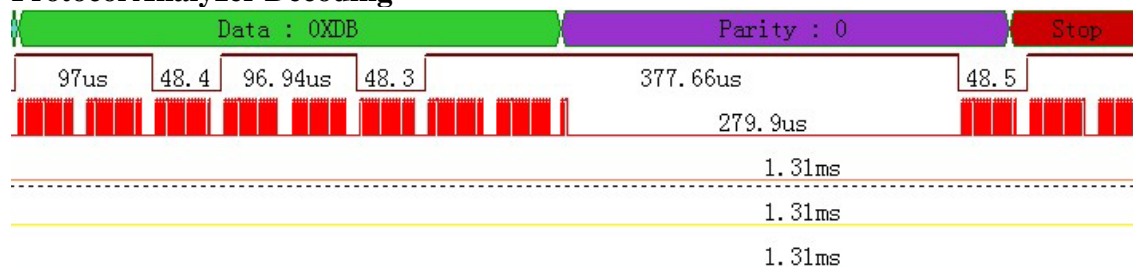


STEP 7. Please enter the Bus Name, select **Yes, please delete** or **No, please reserve** and then press **Finish**.



STEP 8. Following pictures show the completion of the protocol analyzer decoding and packet list. The trigger condition is set as Either Edge; the memory depth is 128K; the sampling frequency is 50MHz. (the sampling frequency should be more than 10 times higher than the signal to be tested.)

Protocol Analyzer Decoding



Packet List

Navigator Packet List Statistics Memory Analyzer							
Packet #	Name	TimeStamp	Start	Data	Parity	Stop	
1	Bus1(ISO7816 UART)	140us	Start	DB	0	Stop	