



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

SPECIFICATION

MODEL: B09009-LAP-WIEGAND-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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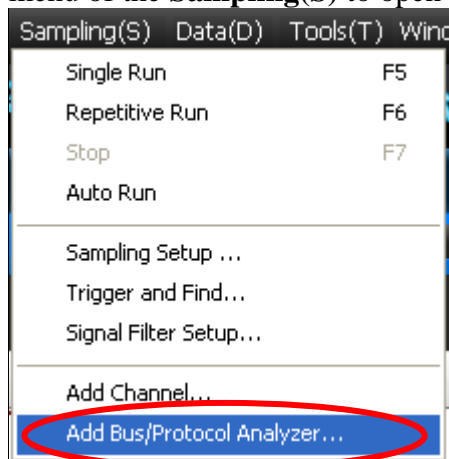
1 Software Register

Please register the software as the following steps:

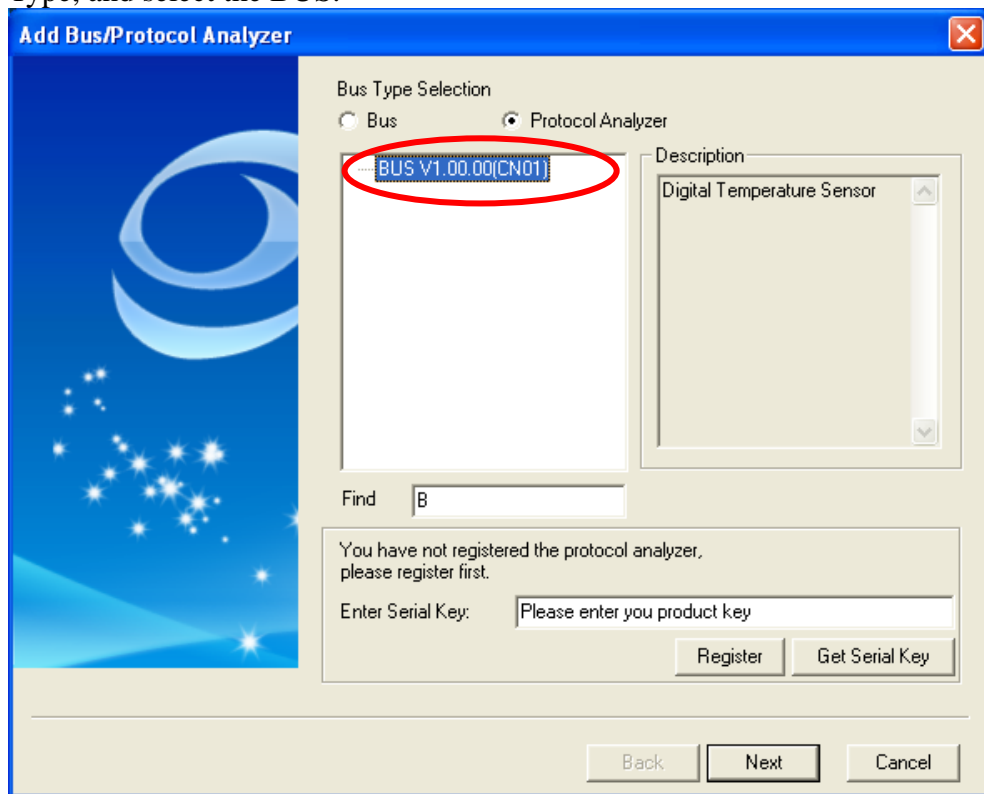
※ Remark1: The registration steps for all protocol analyzers are the same; you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.

※ 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.

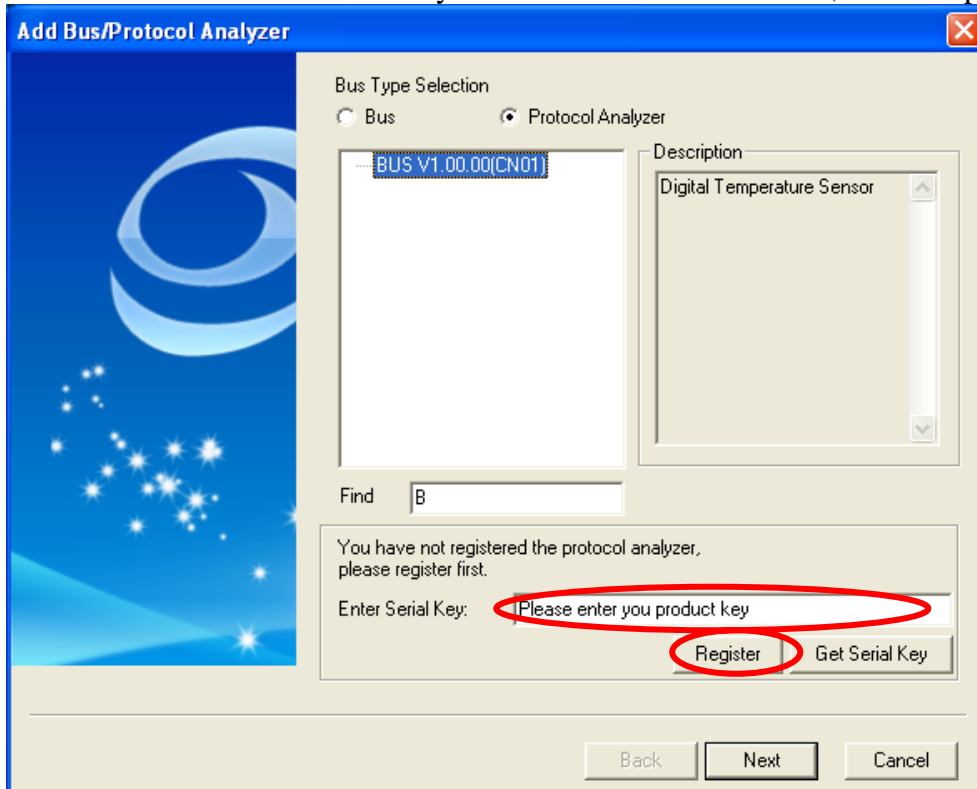


STEP 2. Select Protocol Analyzer item in the Add Bus/Protocol Analyzer dialog box, expand the Other Type, and select the BUS.

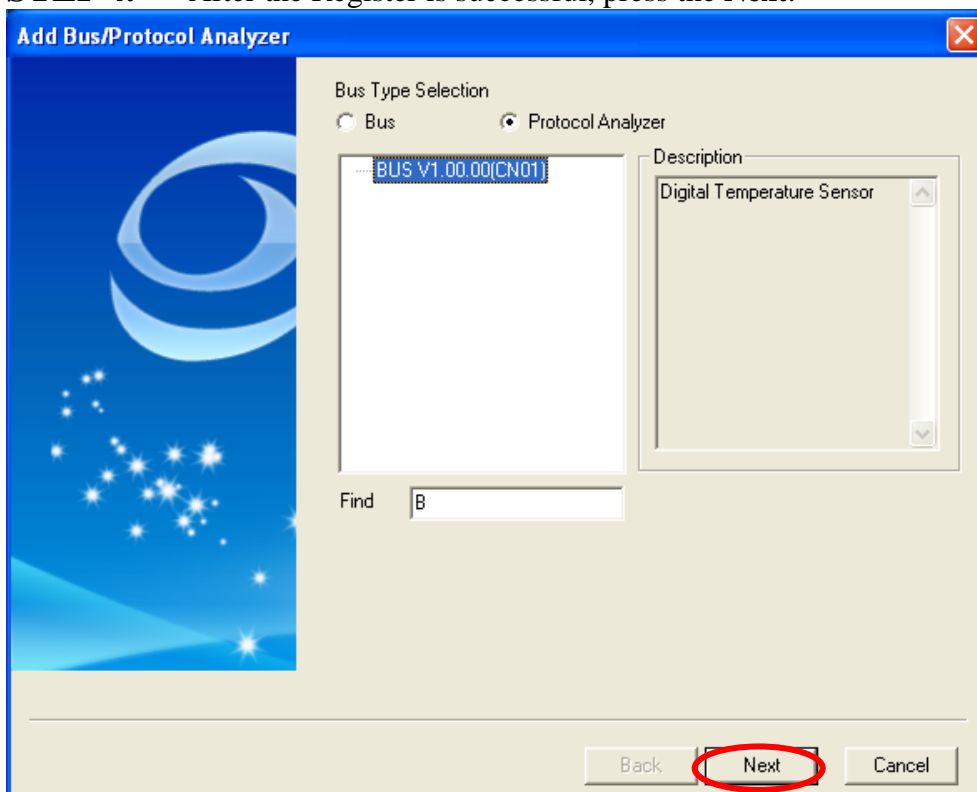




STEP 3. Enter the Serial Key of the BUS under this Model, and then press the **Register**.



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





2 User Interface

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

PROTOCOL ANALYZER WIEGAND

Pin Assignment

Data0: A0

Data1: A1

Protocol Analyzer Property

Format Selection: 26-bit

Pulse Width: 20 to 100 us

Pulse Interval: 0.20 to 20.00 ms

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Parity	[Purple Swatch]	Default	OEM Code	[Blue Swatch]	Default
Facility Code	[Red Swatch]	Default	ID Number	[Blue Swatch]	Default

Default Back Next Cancel

Pin Assignment:

Data0: It is the output channel of Data0.

Data1: It is the output channel of Data1.

Protocol Analyzer Property:

Format Selection: There are three options, 26-bit, 39-bit and 44-bit.

Pulse Width: Set the time width for the generated negative pulse; when inputting the value, the min. value can be set as 1us and the max. value can be set as 20000us, and the min. value should be less than the max. value. The default value is from 20us to 100us.

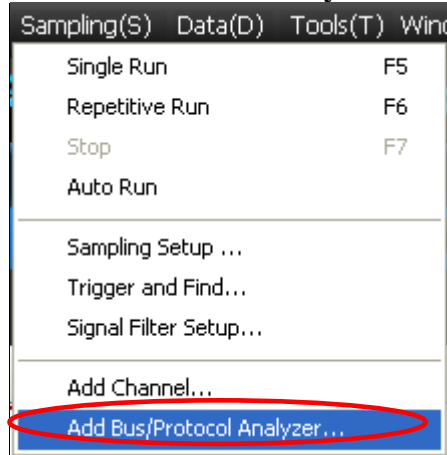
Pulse Interval: Set the time interval for each adjacent negative pulse; when inputting the value, the min. value can be set as 0.20ms and the max. value can be set as 250.00ms, and the min. value should be less than the max. value. The default value is from 0.20ms to 20.00ms.

Protocol Analyzer Format: The color of packets can be varied by users. The Items (OEM Code, Facility Code, ID Number) can be set as Binary, Decimal, Hexadecimal, ASCII or Default. And the Data Format of the Items (OEM Code, Facility Code, ID Number) 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 the Item is the Default. Protocol

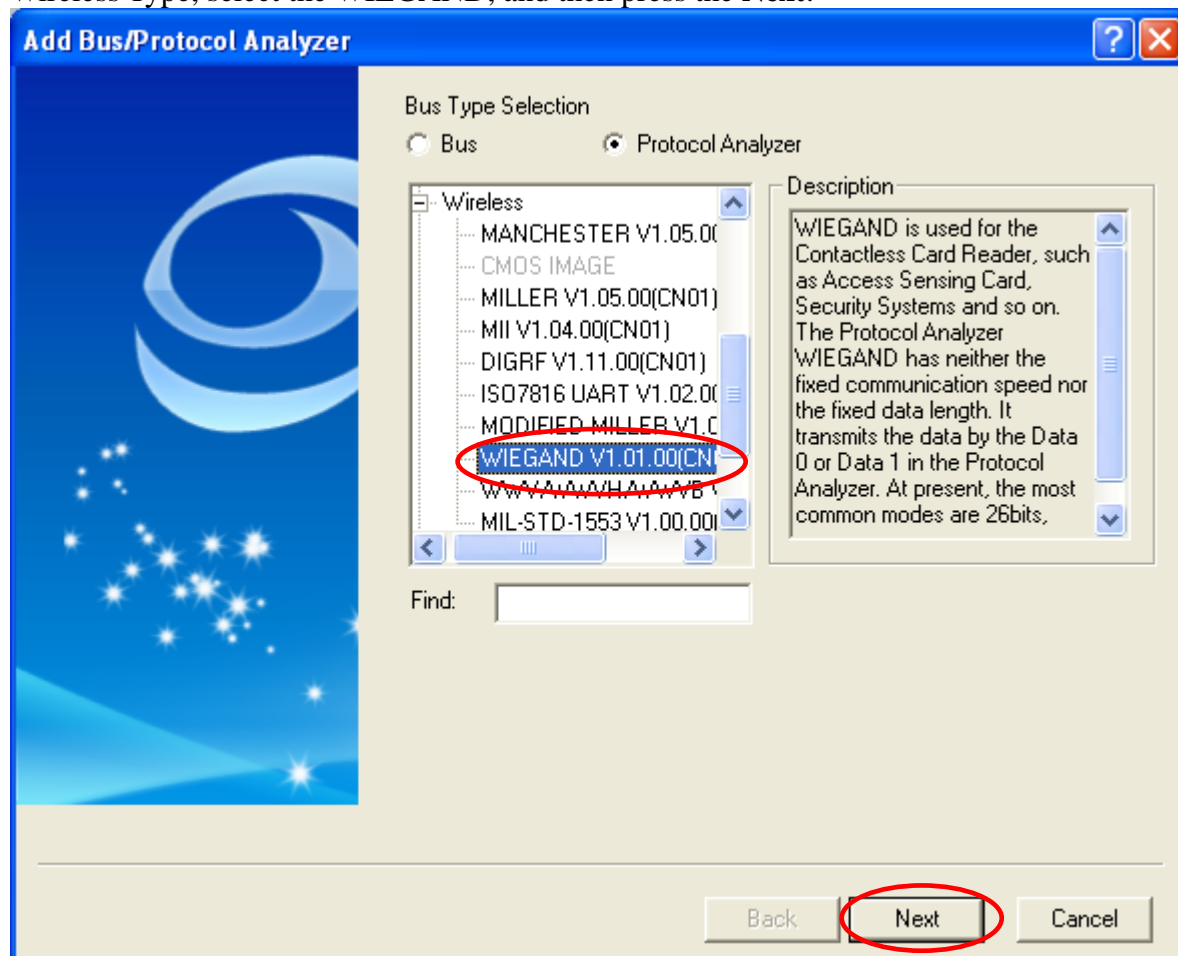


3. Operating Instructions

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 WIEGAND, and then press the **Next**.





STEP 3. Set the Pin Assignment.

PROTOCOL ANALYZER WIEGAND

Pin Assignment

Data0:

Data1:

Protocol Analyzer Property

Format Selection:

Pulse Width: to: us

Pulse Interval: to: ms

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Parity		<input type="text" value="Default"/>	OEM Code		<input type="text" value="Default"/>
Facility Code		<input type="text" value="Default"/>	ID Number		<input type="text" value="Default"/>

Default Back Next Cancel

STEP 4. Set the Protocol Analyzer Property.

PROTOCOL ANALYZER WIEGAND

Pin Assignment

Data0:

Data1:

Protocol Analyzer Property

Format Selection:

Pulse Width: to: us

Pulse Interval: to: ms

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Parity		<input type="text" value="Default"/>	OEM Code		<input type="text" value="Default"/>
Facility Code		<input type="text" value="Default"/>	ID Number		<input type="text" value="Default"/>

Default Back Next Cancel



STEP 5. Set the Protocol Analyzer Format.

The screenshot shows the 'PROTOCOL ANALYZER WIEGAND' dialog box. It has three main sections: 'Pin Assignment', 'Protocol Analyzer Property', and 'Protocol Analyzer Format'. The 'Pin Assignment' section has 'Data0' set to 'A0' and 'Data1' set to 'A1'. The 'Protocol Analyzer Property' section has 'Format Selection' set to '26-bit', 'Pulse Width' set to '20' to '100' us, and 'Pulse Interval' set to '0.20' to '20.00' ms. The 'Protocol Analyzer Format' section is highlighted with a red box and contains a table with the following data:

Item	Color	Data Format	Item	Color	Data Format
Parity	Purple	Default	OEM Code	Blue	Default
Facility Code	Red	Default	ID Number	Blue	Default

At the bottom of the dialog box are four buttons: 'Default', 'Back', 'Next', and 'Cancel'.

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

This screenshot is identical to the one in Step 5, showing the 'PROTOCOL ANALYZER WIEGAND' dialog box with the same settings. In this step, the 'Next' button at the bottom of the dialog box is highlighted with a red box, indicating it should be pressed to proceed.



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

Add Bus/Protocol Analyzer

Please input the Bus name:

BUS

Do you want to delete the other Buses and channels in the software?

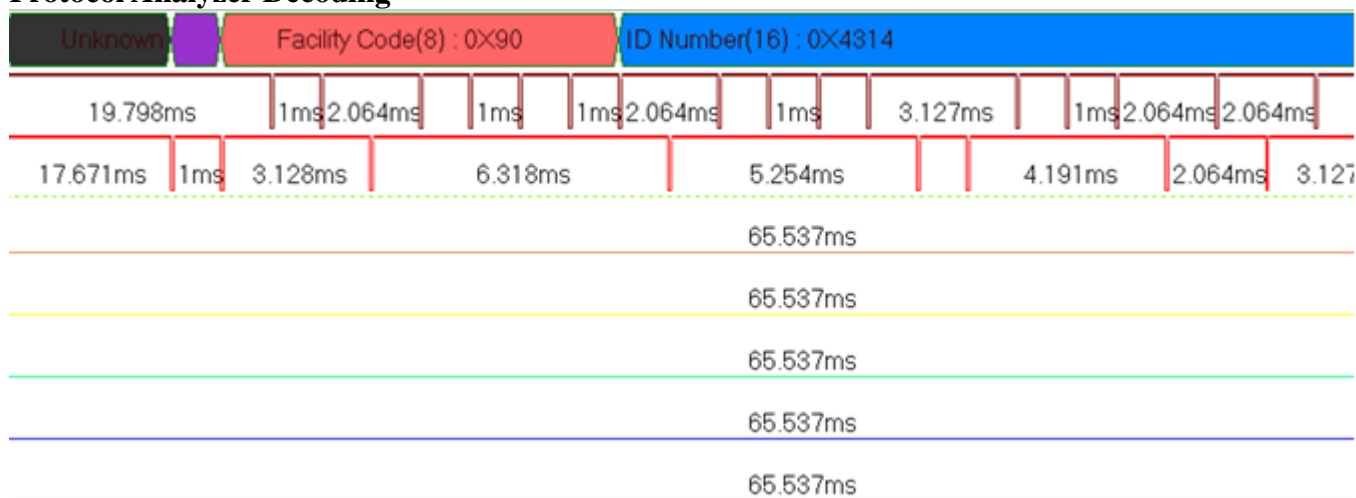
☐ Yes, please delete

☒ No, please reserve

Back Finish Cancel

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 1MHz. (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	Even Parity	Facility Code(8)	ID Number(16)	Odd Parity
1	Bus1(WIEGAND)	17.671ms	Even Parity	90	4314	Odd Parity

Ready

Endl DEMO