



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

SPECIFICATION

MODEL: B12016-MDDI

PART NO : _____

VERSION : V1.00

Approver		Check	Design
GM	PM		

Customer Confirm

* Please fax the file to
Zeroplus Technology after
signing.

2F, NO.123, Jian Ba Rd,
Chung Ho City, Taipei Hsian, R.O.C.

Tel:+886-2-66202225
Fax:+886-2-22234362



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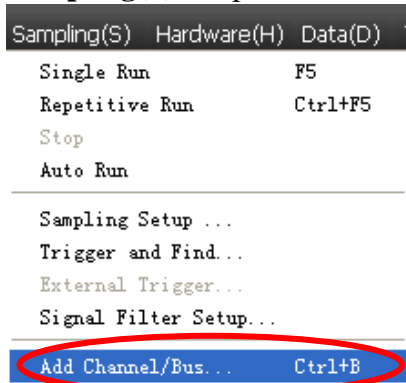
1 Software Register

Please register the software as the following steps:

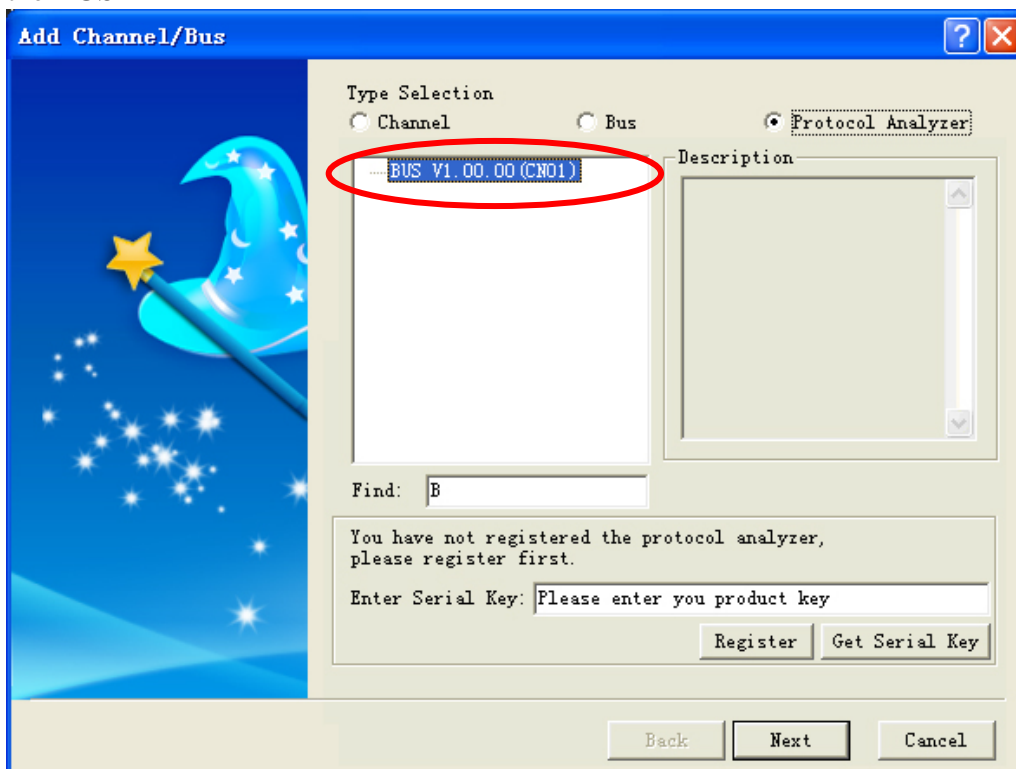
※ Remark1: The registration steps for all protocol analyzers are the same; you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.

※ Remark2: We won't have additional notice for you, when there is any modification of the module specification. If there is any unconformity caused by module version upgrade, users should take the module software as the standard.

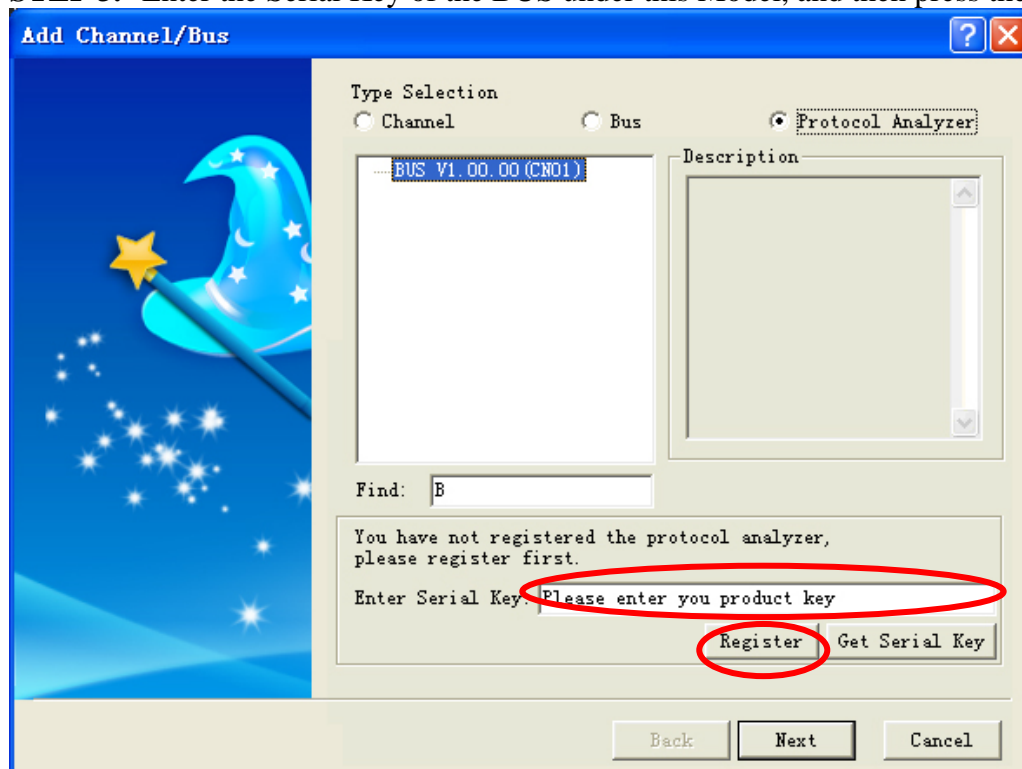
STEP 1. Open the Logic Analyzer and select the **Add Channel/Bus** item on the pull-down menu of the **Sampling(S)** to open the **Add Channel/Bus** dialog box.



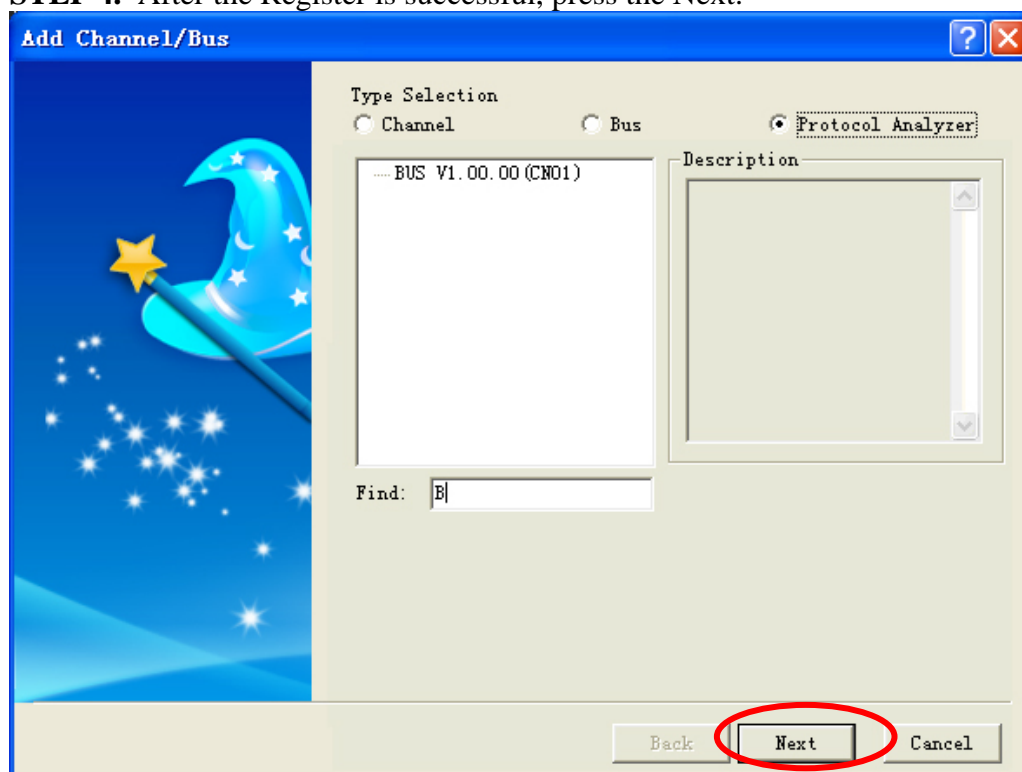
STEP 2. Select Protocol Analyzer item in the Add Channel/Bus dialog box, expand the Other Type, and select the BUS.



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



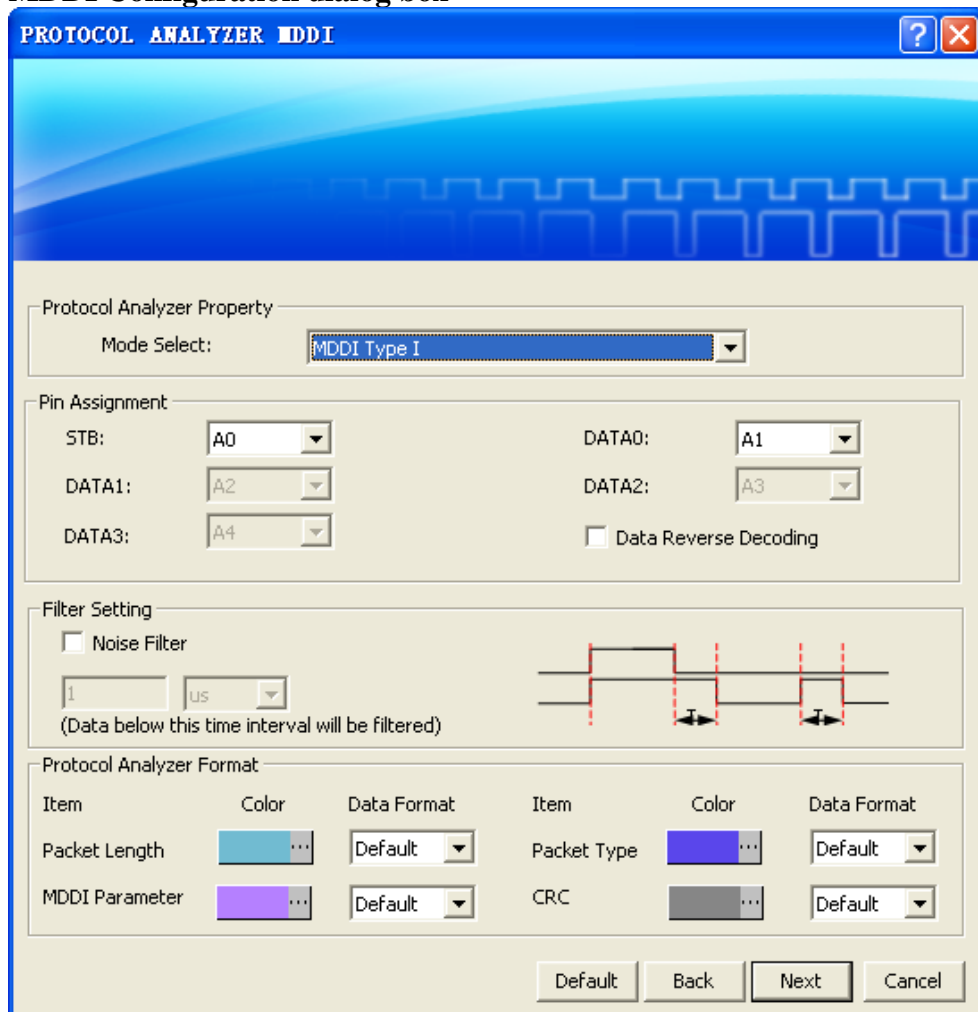
STEP 4. After the Register is successful, press the Next.



2 User Interface

Please refer to the below images to do settings of MDDI module.

MDDI Configuration dialog box



Protocol Analyzer Property

Mode Select: MDDI Type I

Pin Assignment

STB: A0 DATA0: A1

DATA1: A2 DATA2: A3

DATA3: A4 ☐ Data Reverse Decoding

Filter Setting

☐ Noise Filter

1 us
(Data below this time interval will be filtered)

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Packet Length		Default	Packet Type		Default
MDDI Parameter		Default	CRC		Default

Default Back Next Cancel

Mode Select:

Users can select MDDI Type I, MDDI Type II, MDDI Type III and MDDI Type IV, and it is the MDDI Type I by default. The data line is limited in the different mode.

Pin Assignment:

STB is the base line, all of DATA0, DATA1, DATA2 and DATA3 are data lines. It is that the “Data Reverse Decoding” is not activated by default.

Filter Setting:

Start the noise filter function when the Noise Filter is activated. The value can be inputted from 1 to 1000, and it is 1 by default. The default unit is us, users cannot input value when the unit is ns, us or ms.

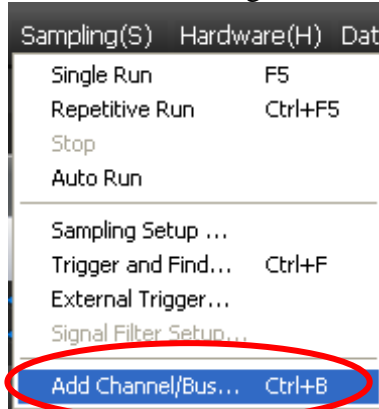
Protocol Analyzer Format:

Users can set the color of the packet as their requirements. The four items (Packet Length, Packet Type, MDDI Parameter and CRC) can be set as Binary, Decimal, Hexadecimal, ASCII or Default. And the data format of these items in the Waveform Display Area and Packet List is controlled by Protocol Analyzer. The default data format is controlled by main program and the data format of these items is Default.

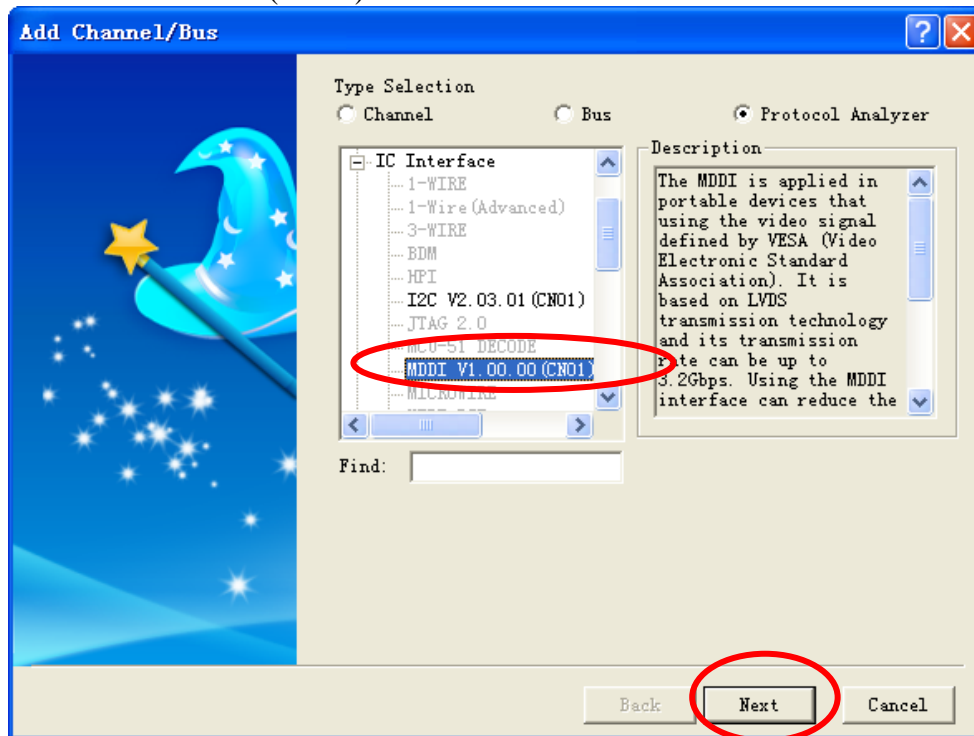


3. Operating Instructions

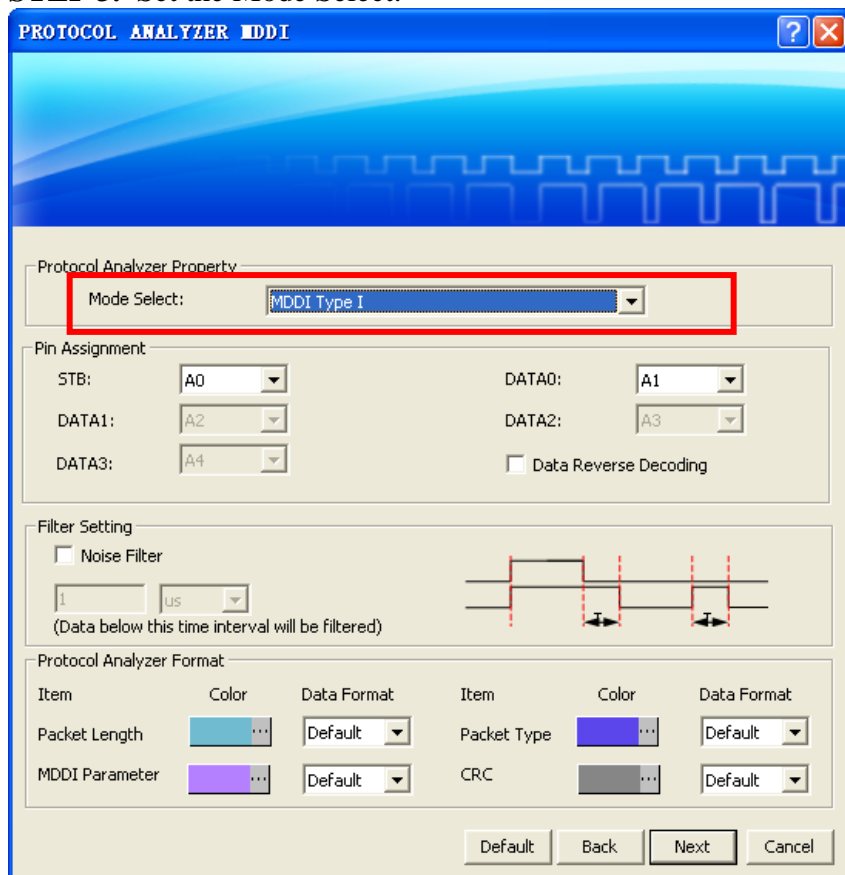
STEP 1. Select the Add Channel/Bus item on the pull-down menu of the Sampling(S) to open the Add Channel/Bus dialog box.



STEP 2. Select the Protocol Analyzer item in the Add Channel/Bus dialog box, expand the IC Interface, select the MDDI V1.00.00(CN01) and then click the Next.



STEP 3. Set the Mode Select.



PROTOCOL ANALYZER MDDI

Protocol Analyzer Property
Mode Select: **MDDI Type I**

Pin Assignment
STB: A0 DATA0: A1
DATA1: A2 DATA2: A3
DATA3: A4 ☐ Data Reverse Decoding

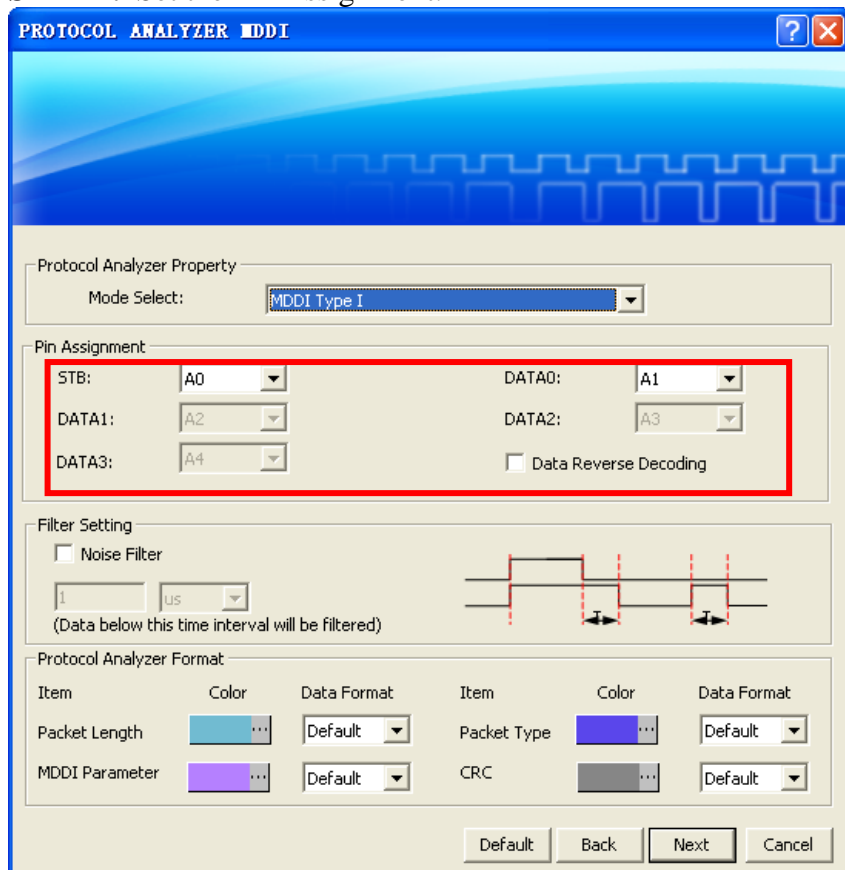
Filter Setting
☐ Noise Filter
1 us
(Data below this time interval will be filtered)

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Packet Length		Default	Packet Type		Default
MDDI Parameter		Default	CRC		Default

Default Back Next Cancel

STEP 4. Set the Pin Assignment.



PROTOCOL ANALYZER MDDI

Protocol Analyzer Property
Mode Select: **MDDI Type I**

Pin Assignment
STB: A0 DATA0: A1
DATA1: A2 DATA2: A3
DATA3: A4 ☐ Data Reverse Decoding

Filter Setting
☐ Noise Filter
1 us
(Data below this time interval will be filtered)

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Packet Length		Default	Packet Type		Default
MDDI Parameter		Default	CRC		Default

Default Back Next Cancel

STEP 5. Set the Filter Setting.

PROTOCOL ANALYZER MDDI

Protocol Analyzer Property
Mode Select: **MDDI Type I**

Pin Assignment
STB: **A0** DATA0: **A1**
DATA1: **A2** DATA2: **A3**
DATA3: **A4** ☐ Data Reverse Decoding

Filter Setting
☐ Noise Filter
1 **US**
(Data below this time interval will be filtered)

Protocol Analyzer Format

Item	Color	Data Format	Item	Color	Data Format
Packet Length		Default	Packet Type		Default
MDDI Parameter		Default	CRC		Default

Default Back Next Cancel

STEP 6. Set the Protocol Analyzer Format.

PROTOCOL ANALYZER MDDI

Protocol Analyzer Property
Mode Select: **MDDI Type I**

Pin Assignment
STB: **A0** DATA0: **A1**
DATA1: **A2** DATA2: **A3**
DATA3: **A4** ☐ Data Reverse Decoding

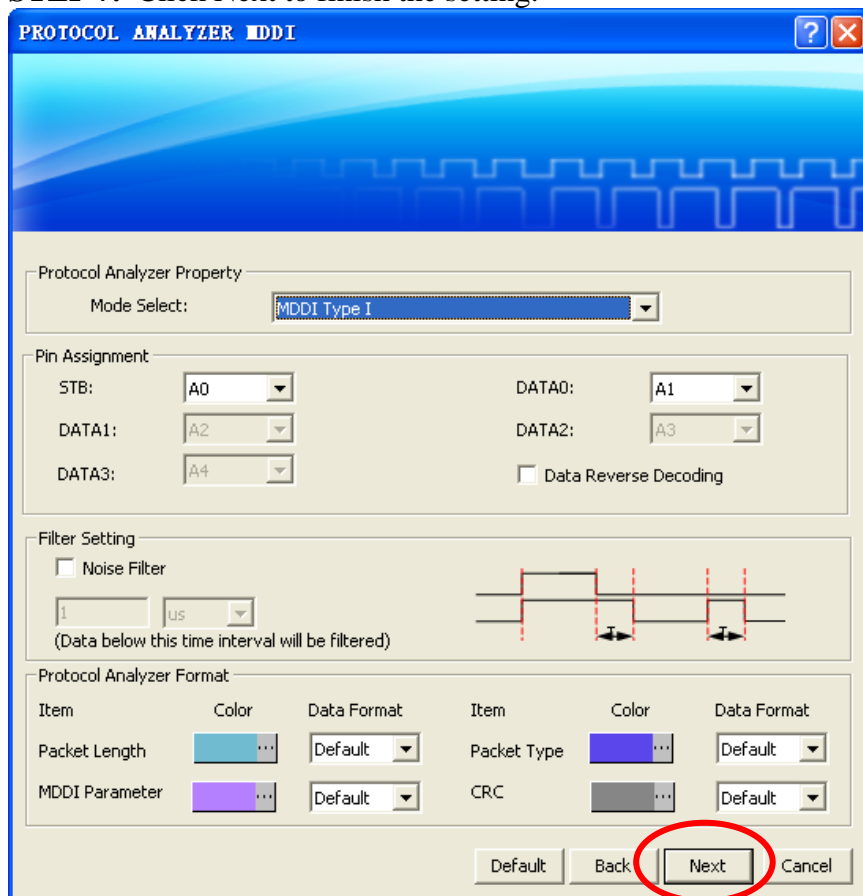
Filter Setting
☐ Noise Filter
1 **US**
(Data below this time interval will be filtered)

Protocol Analyzer Format

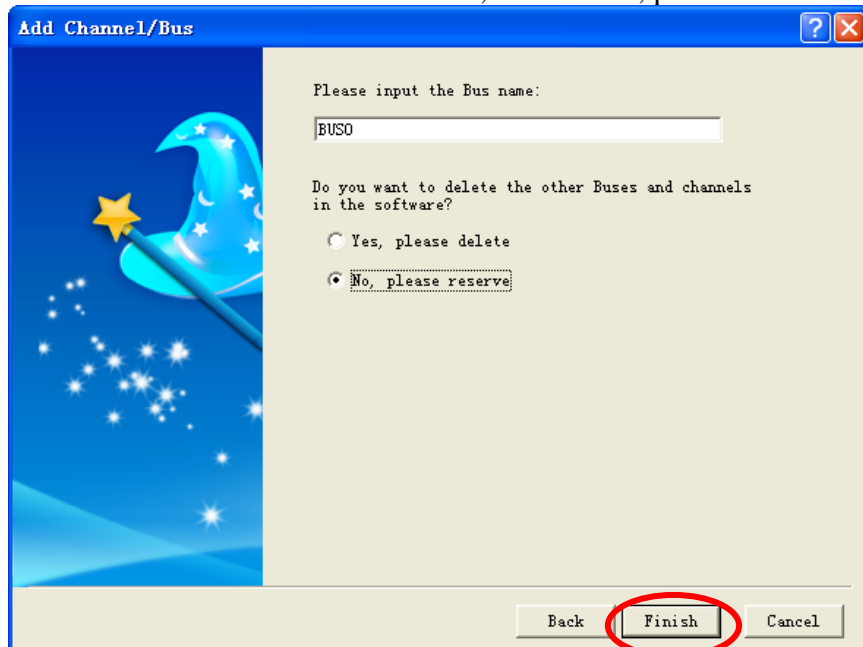
Item	Color	Data Format	Item	Color	Data Format
Packet Length		Default	Packet Type		Default
MDDI Parameter		Default	CRC		Default

Default Back Next Cancel

STEP 7. Click Next to finish the setting.

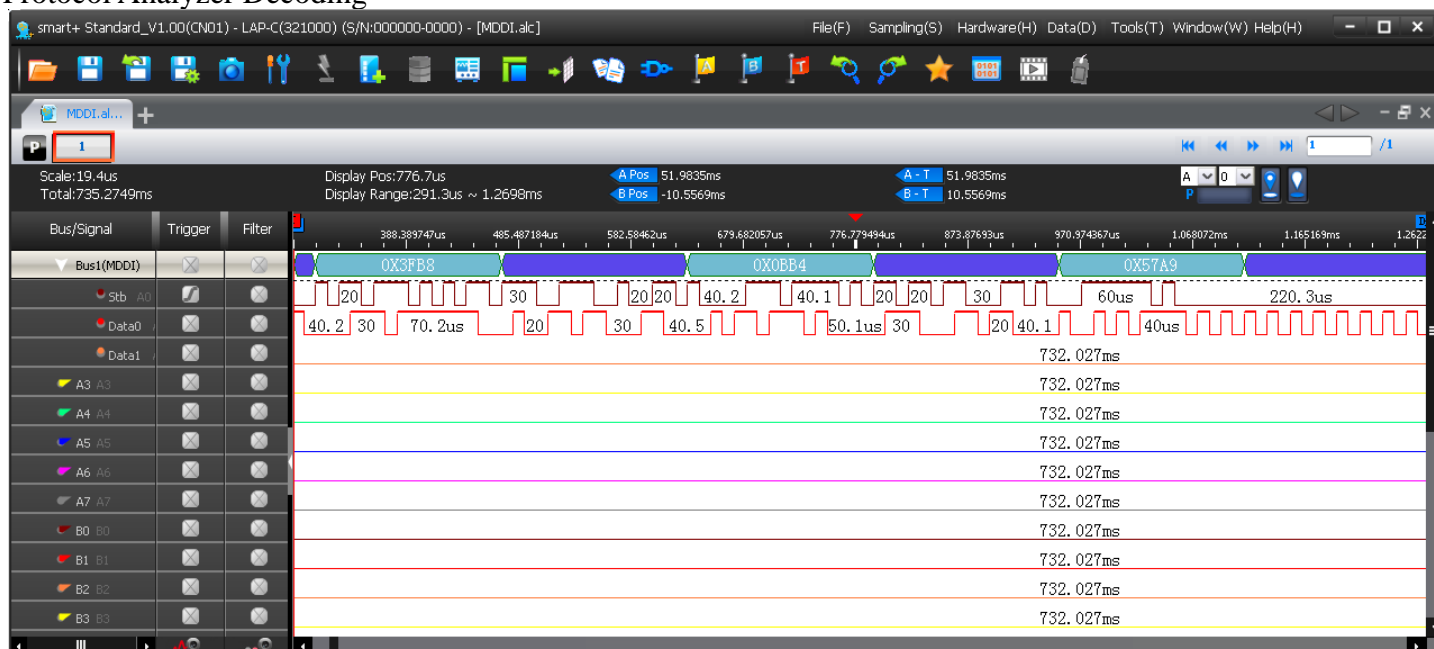


STEP 8. Please enter the Bus Name, select “Yes, please delete” or “No, please reserve” and then click Finish.



STEP 9. Following pictures show the completion of the protocol analyzer decoding and packet list. The trigger condition is set as Rising Edge, the memory depth is 64K and the sampling frequency is 10MHz (the sampling frequency should be more than four times higher than the signal to be tested).

Protocol Analyzer Decoding





Packet List

