



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

# SPECIFICATION

**MODEL: B09020-LAP-SS\_K9(NAND)-M**

**PART NO:** \_\_\_\_\_

**VERSION:** V1.00

Approver		Check	Design
GM	PM		

Customer Confirm

\* Please fax the file to  
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signing.

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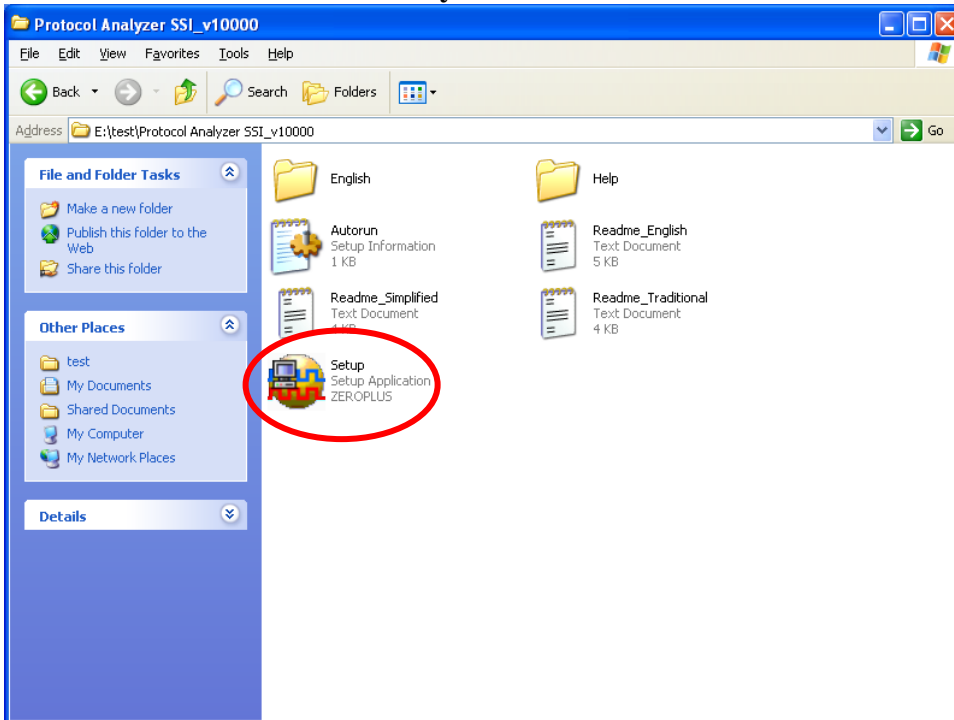


# 1 Software Installation

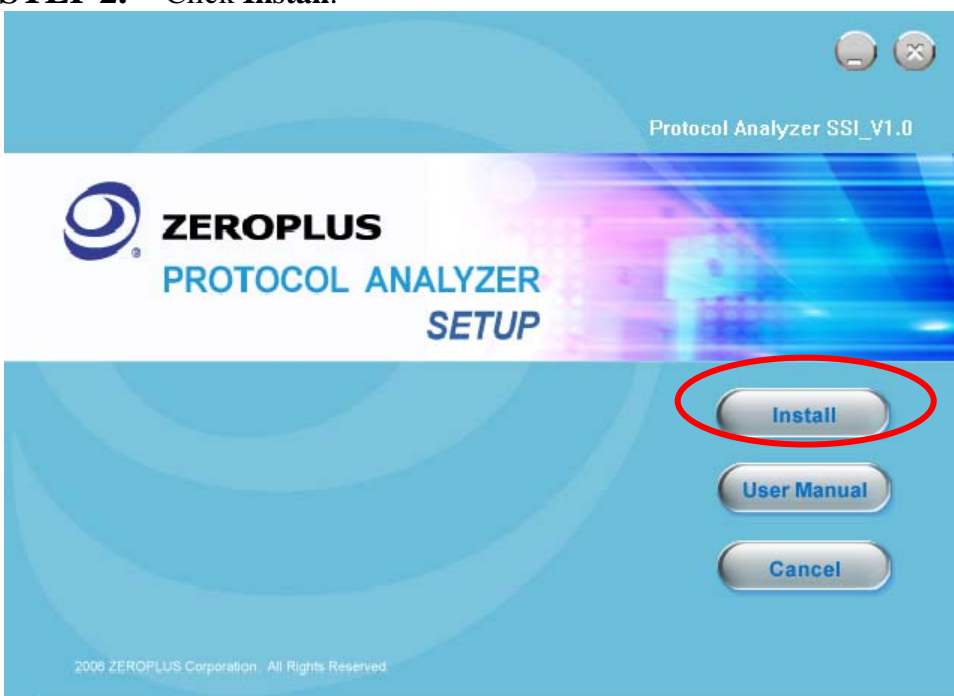
Please install the software as the following steps:

- ※ Remark: 1. The installation steps for all protocol analyzers are the same; you can complete the installation by following procedures. Following is an example on how to install protocol analyzer SSI.
- ※ 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. Install Protocol Analyzer Module.

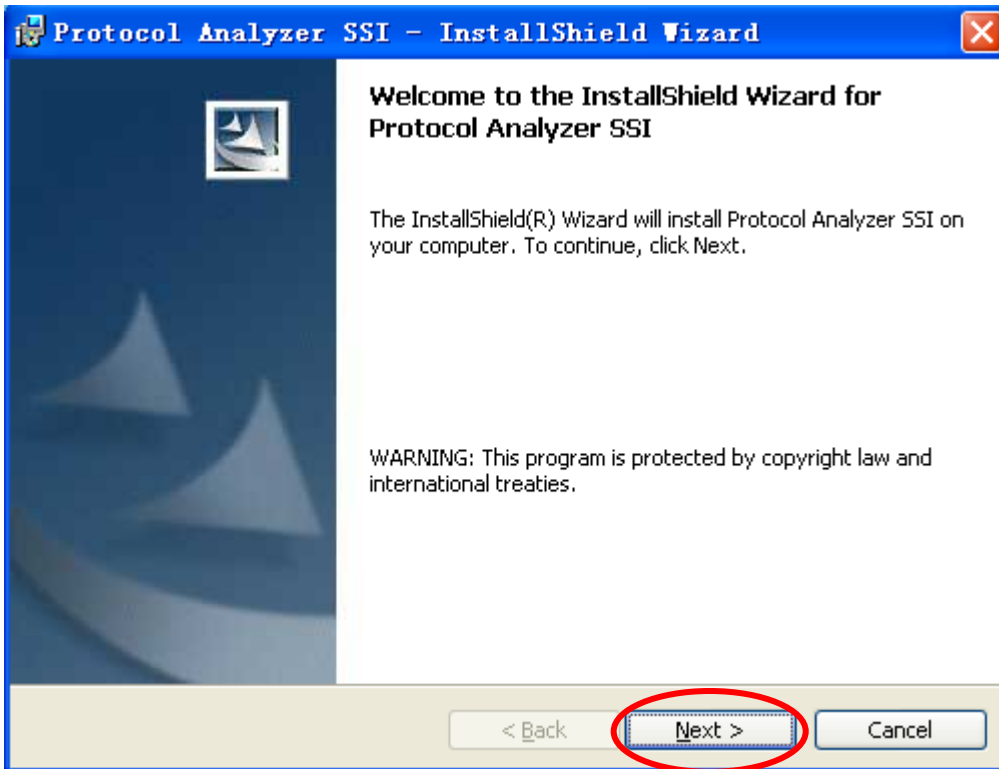


## STEP 2. Click Install.

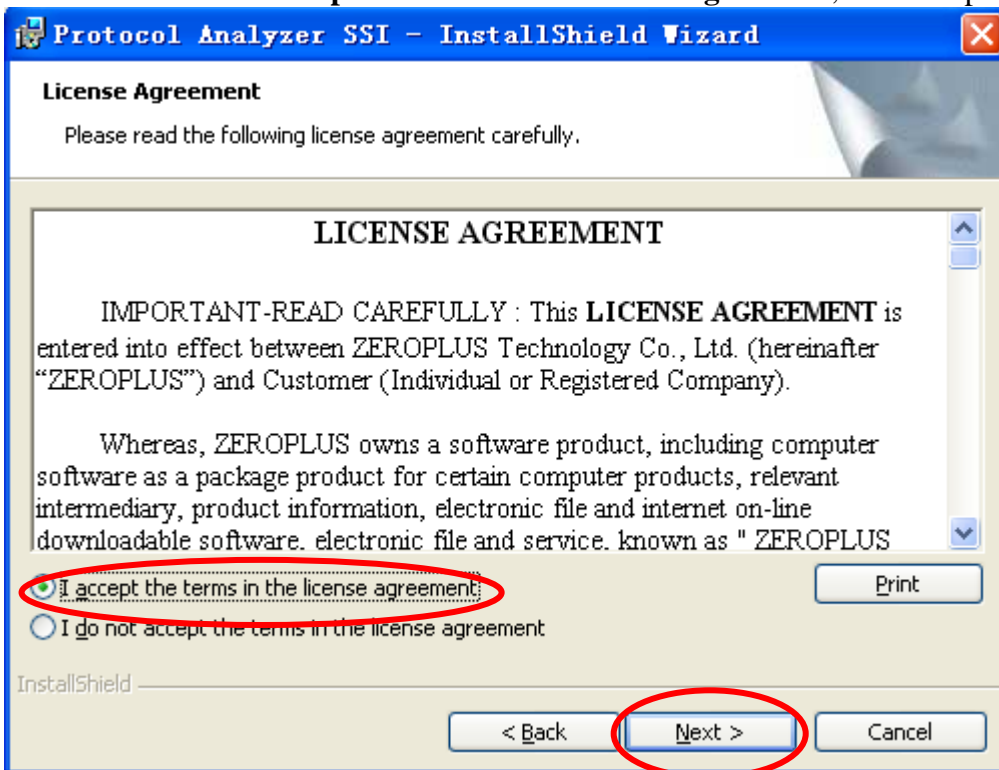




**STEP 3.** Click Next.

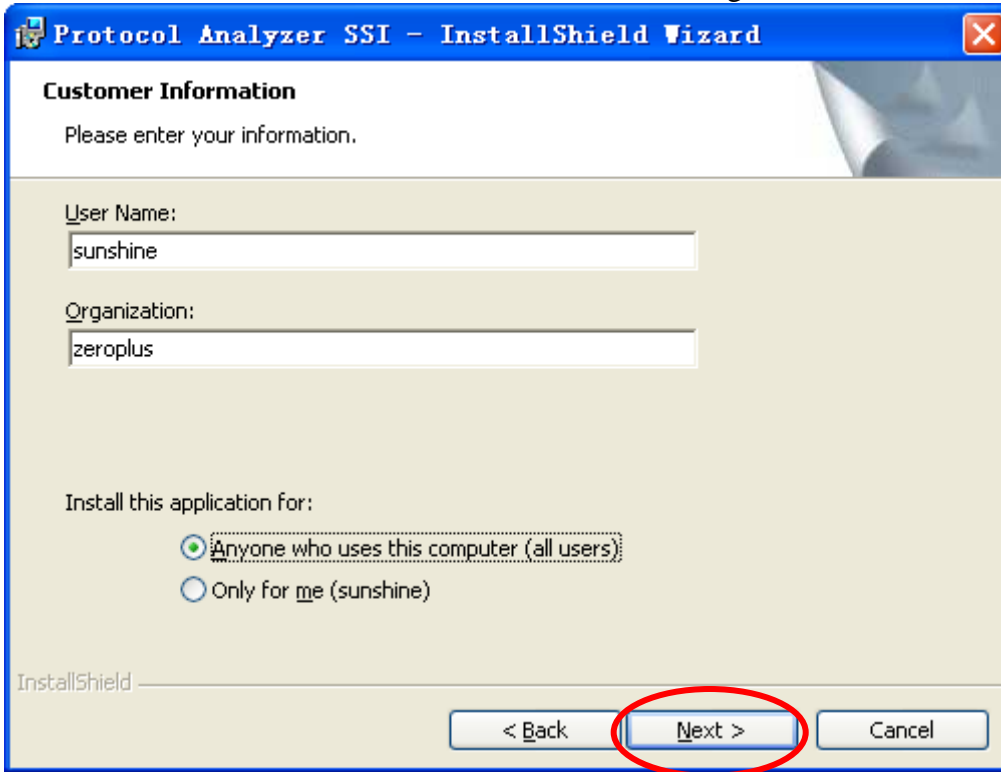


**STEP 4.** Select I accept the terms in the license agreement, and then press Next.

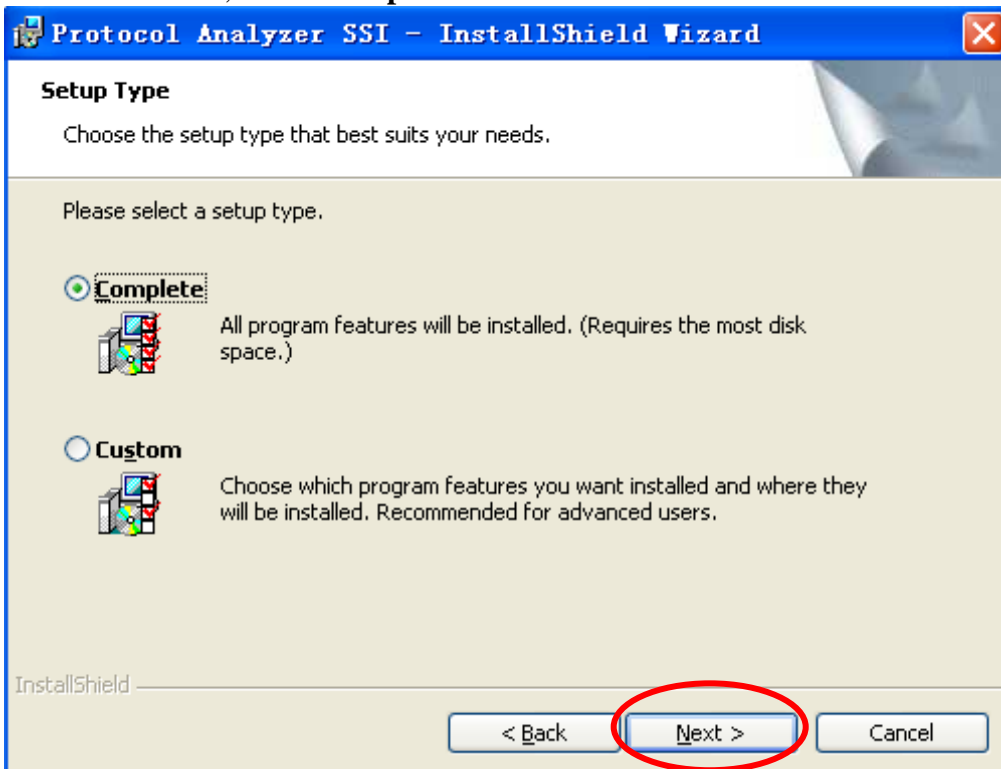




**STEP 5.** Fill in users' information in the below dialog box and click **Next**.

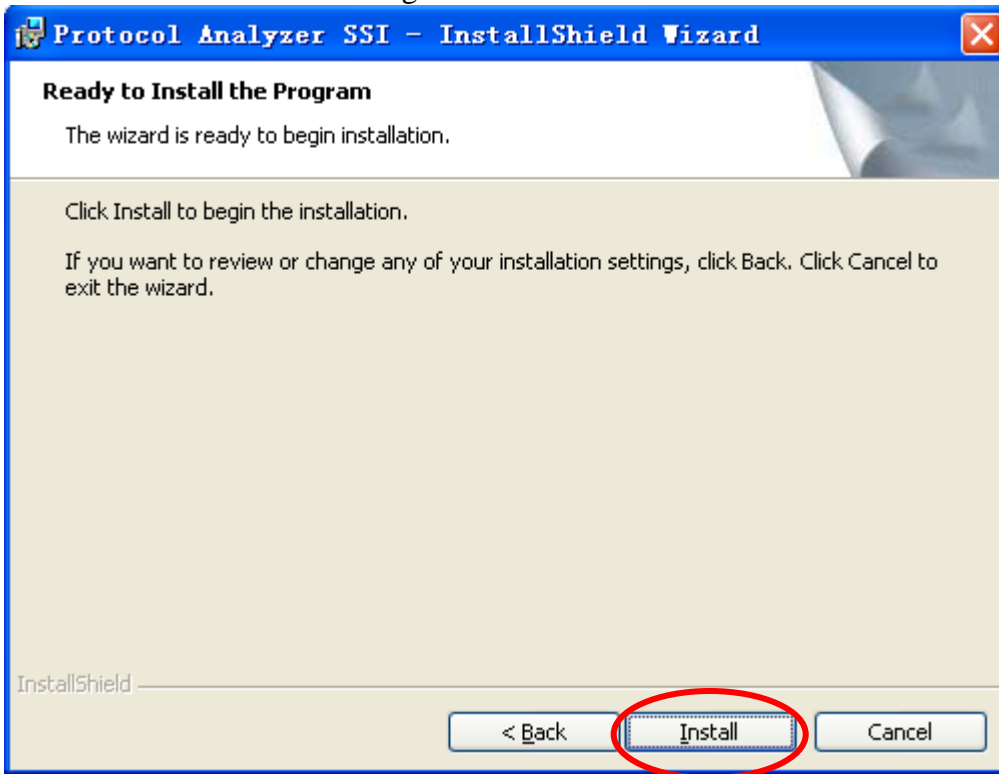


**STEP 6.** First, select **Complete** and then click **Next**.

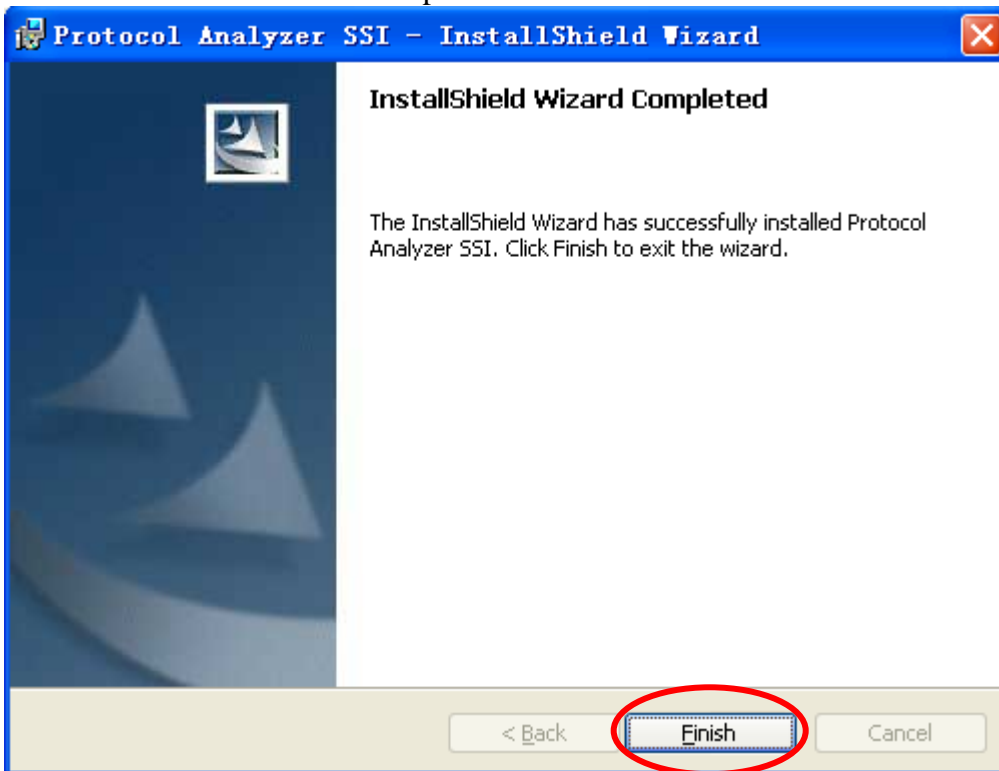




**STEP 7.** Click **Install** to begin the installation.



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

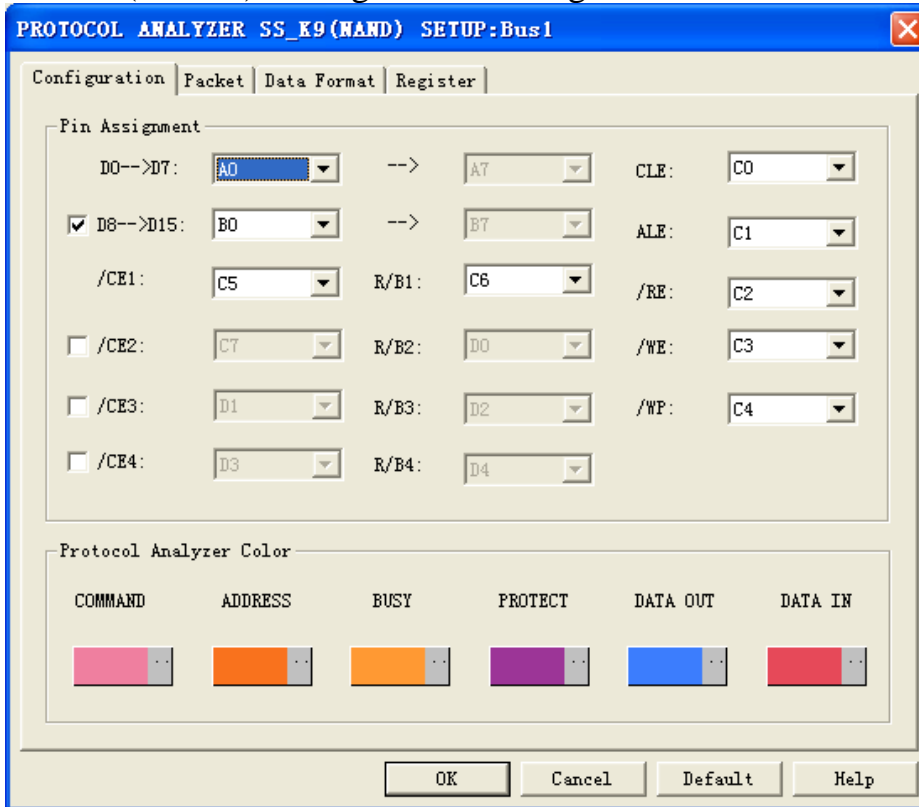




## 2 User Interface

In the configuration, please refer to the below images to select options of setting SS\_K9(NAND) module.

### SS\_K9(NAND) Configuration Dialog Box

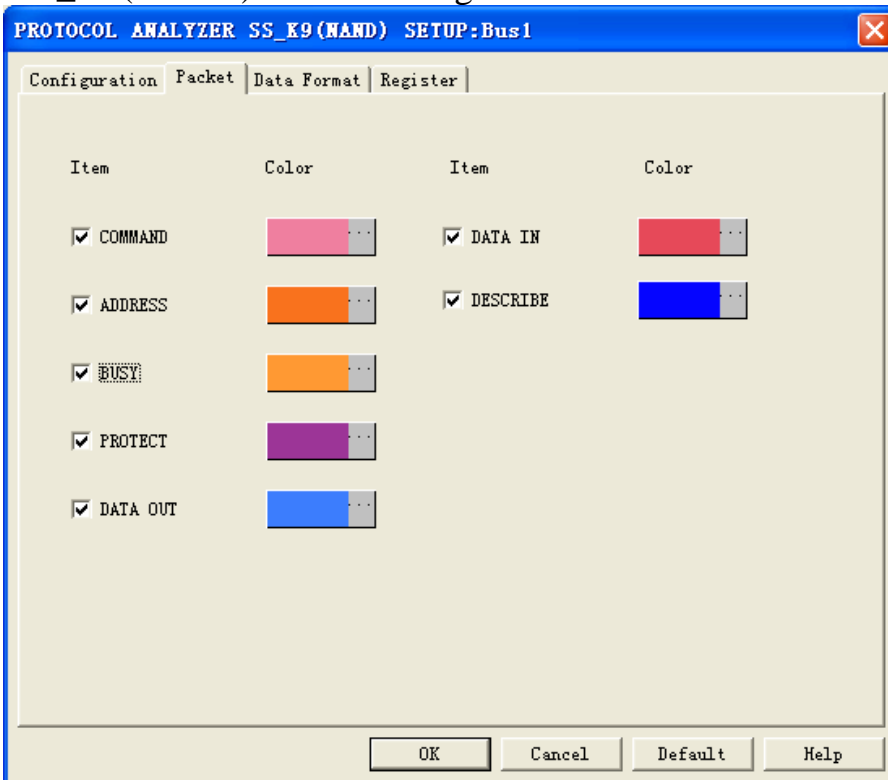


**Pin Assignment:** It requires at least fifteen channels to perform the decoding. The channels, D0→D7, CLE, ALE, /RE, /WE, /WP, /CE1, R/B1 are necessary. The channels, D8→D15, /CE2, /CE3 and /CE4 can be selected by users. When users activate the /CE2, /CE3 and /CE4, the R/B2, R/B3 and R/B4 also can be activated correspondingly.

**Protocol Analyzer Color:** The Protocol Analyzer Color can be varied by users.

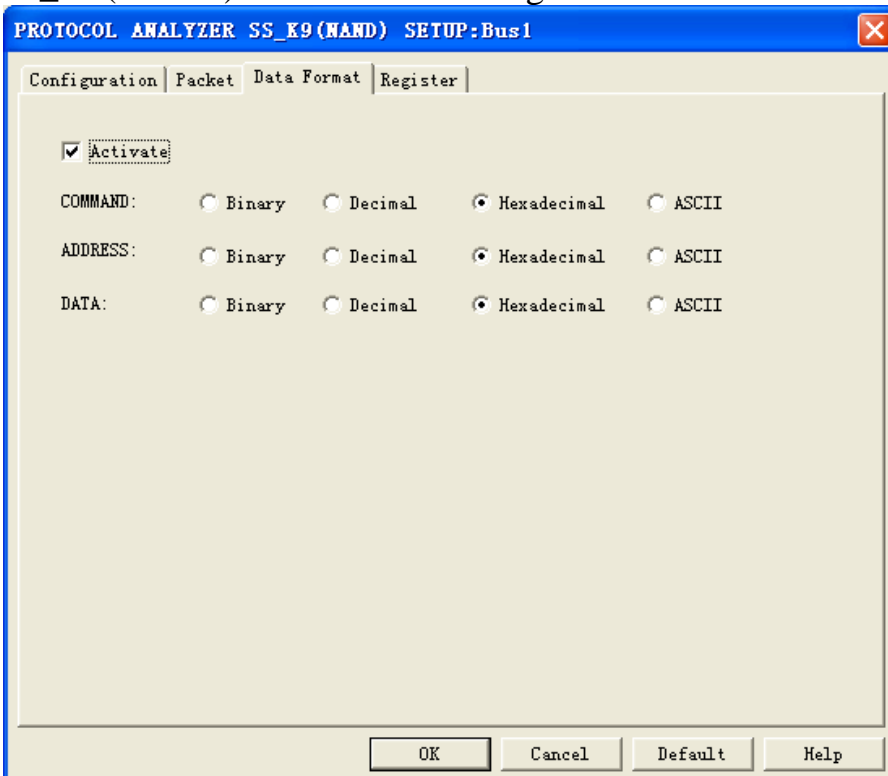


### SS\_K9(NAND) Packet Dialog Box



In the packet part, users can set the items and colors as users' requirements.

### SS\_K9(NAND) Data Format Dialog Box

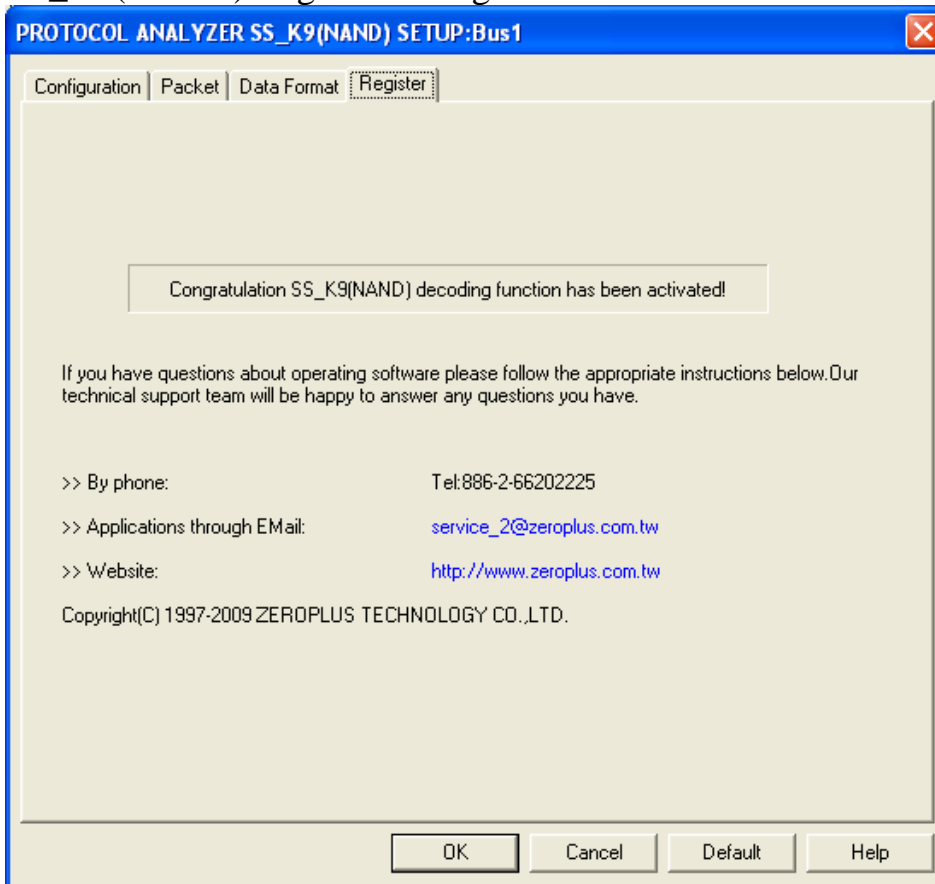


Users can set the Data Format of the COMMAND, ADDRESS and DATA as their requirements. When selecting the option, Activate, the data formats are decided by the settings in the Protocol Analyzer; when not selecting the option, Activate, the data formats are decided by the settings in the main program.





## SS\_K9(NAND) Register Dialog Box

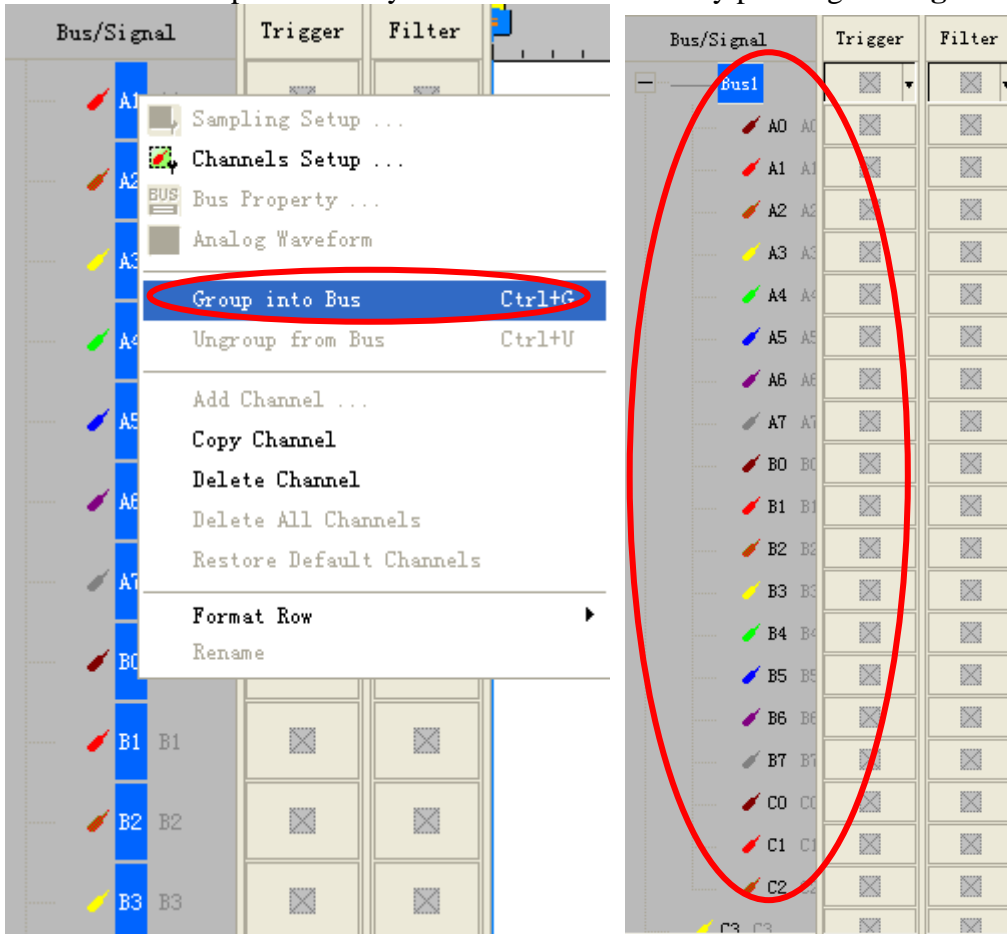


There is written ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

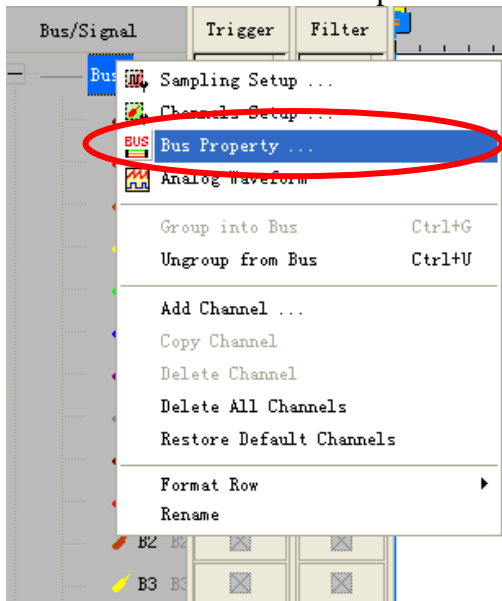


### 3 Operating Instructions

**STEP 1.** Group the unanalyzed channel into **Bus1** by pressing the **Right Key** on the mouse.

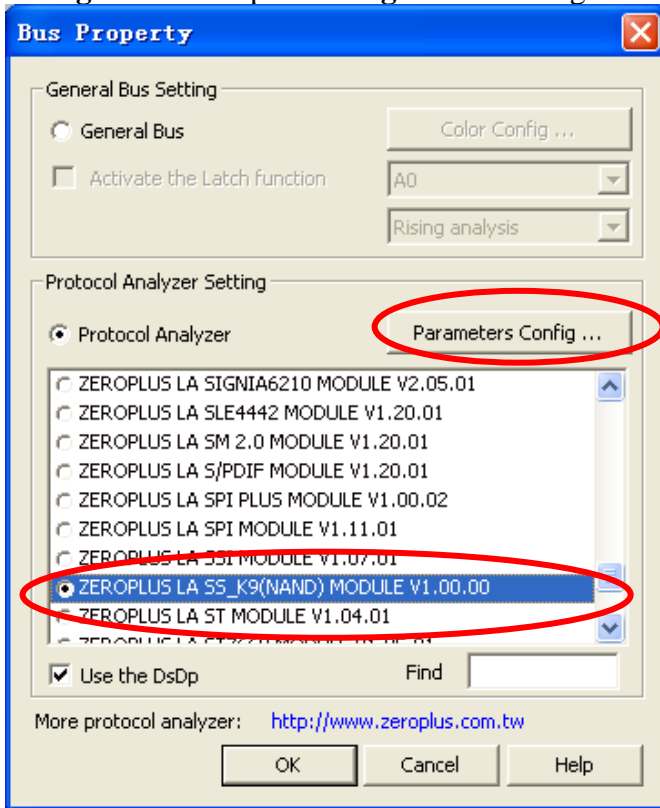


**STEP 2.** Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** bar on the toolbar to open **Bus Property** dialog box.

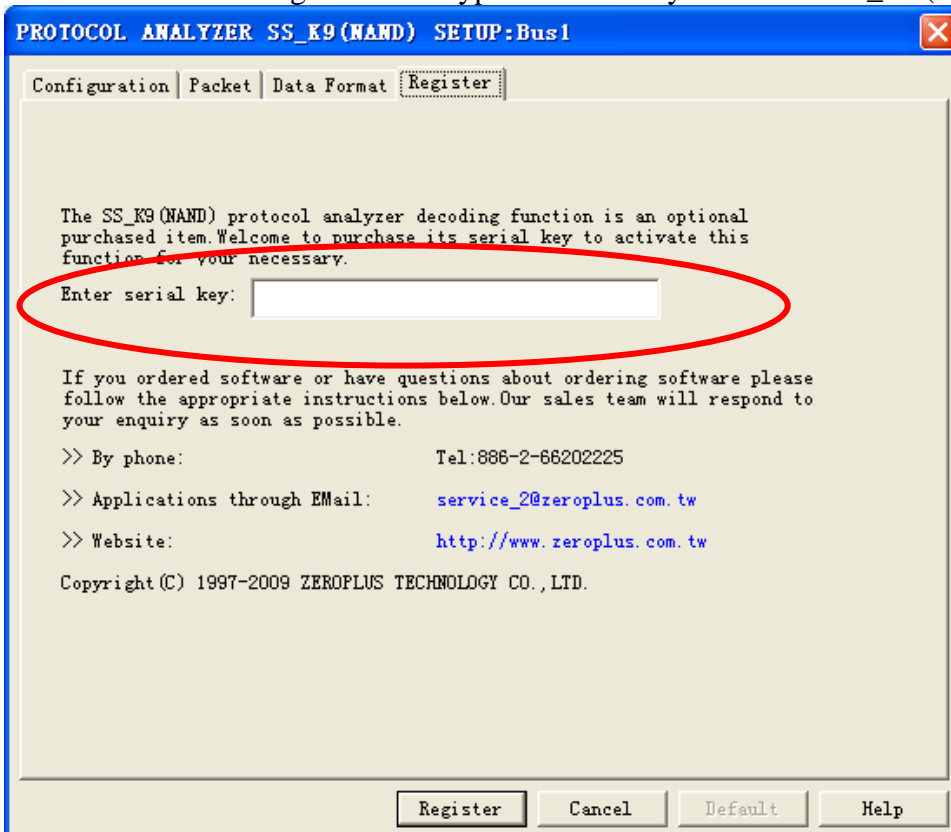




**STEP 3.** For Protocol Analyzer SS\_K9(NAND) Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA SS\_K9(NAND) MODULE V1.00.00**. Next click **Parameters Configuration** to open **Configuration** dialog box.

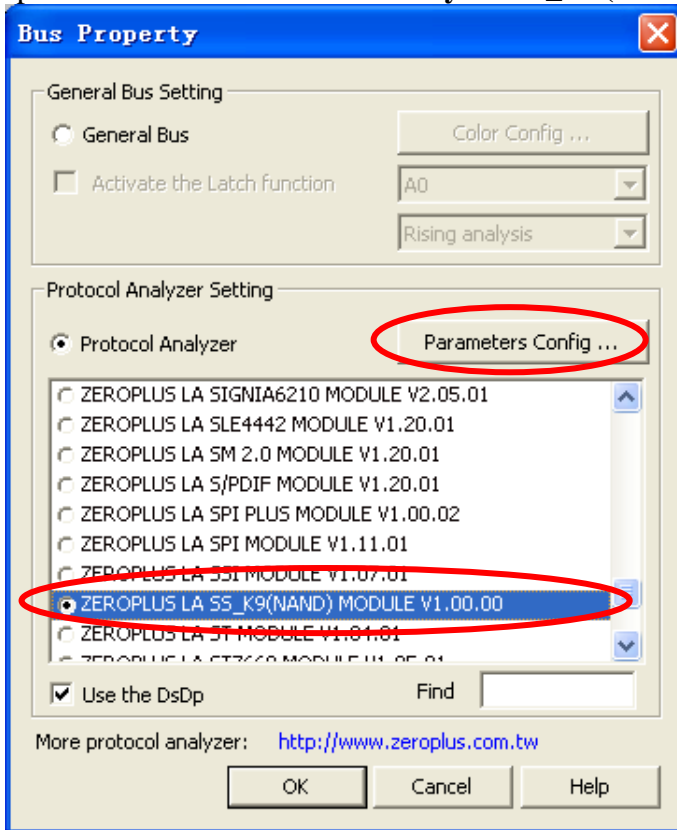


**STEP 4.** Press Register tab to type the serial key number of **SS\_K9(NAND)**. Then, press **Register**.

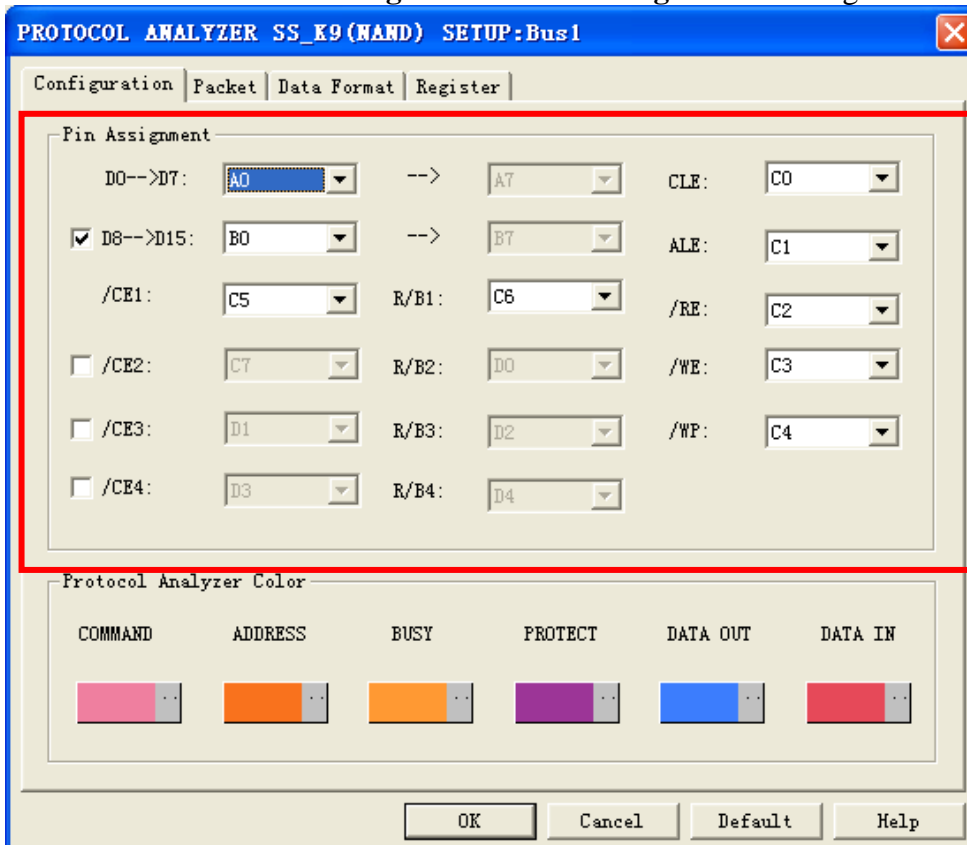




**STEP 5.** Click **Parameters Configuration** again, and open the Configuration dialog box to set the parameters for the **Protocol Analyzer SS\_K9(NAND)**.

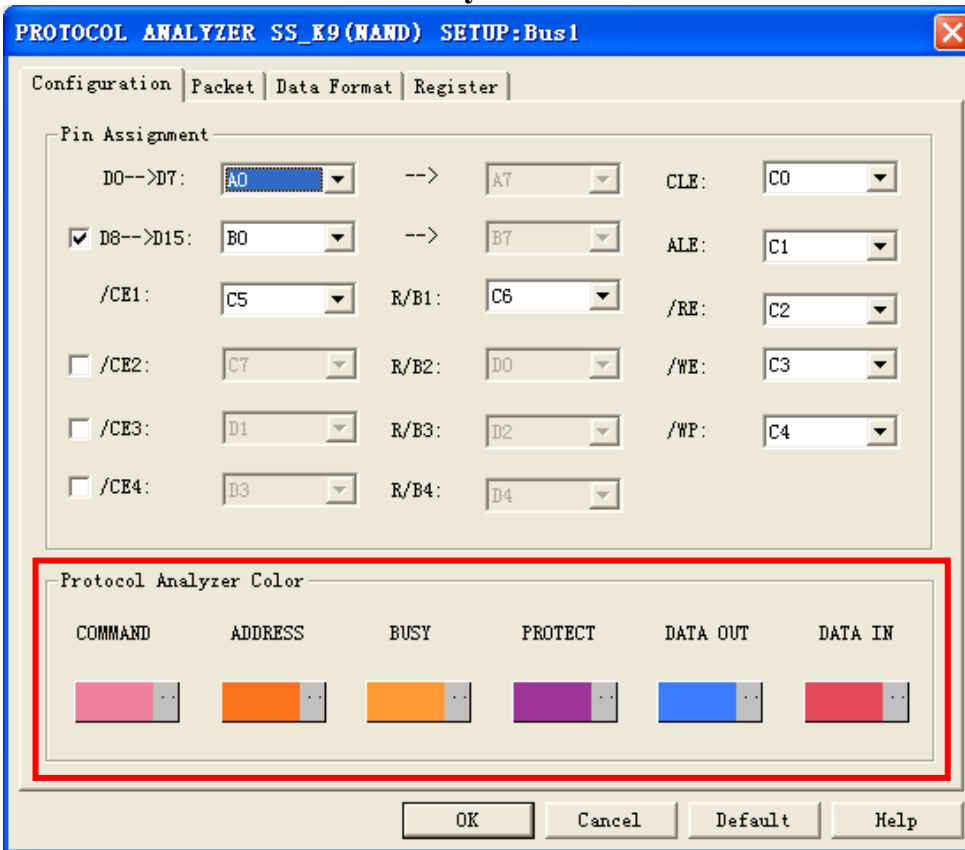


**STEP 6.** Set the **Pin Assignment** in the **Configuration** dialog box.



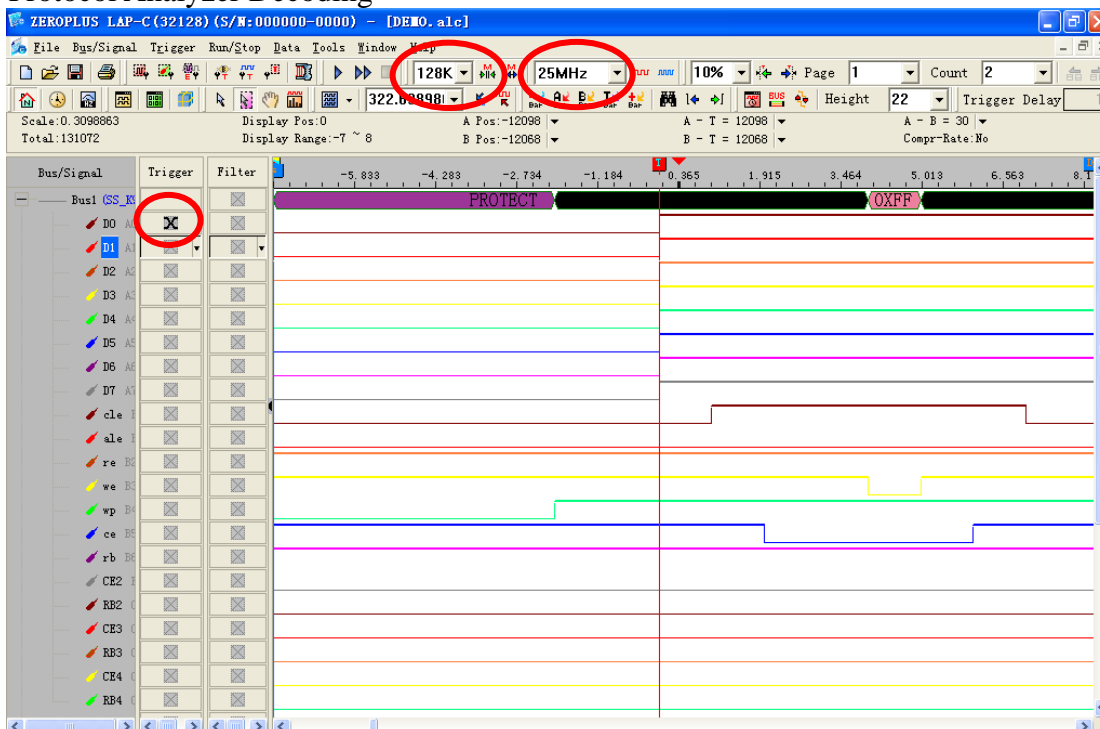


**STEP 7. Set the Protocol Analyzer Color.**



**STEP 8.** 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 128K; the sampling frequency is 25MHZ.

**Protocol Analyzer Decoding**





### Packet List

The screenshot shows a logic analyzer window titled "ZEROPUS LAP-C(32128) (S/M:000000-0000) - [DEMO.alc]". The interface includes a menu bar, a toolbar with various analysis tools, and a main display area. The main display shows a waveform for "Bus1(SS\_K)" with a time scale from -7.909 to 10. The waveform shows a "PROTECT" event and a "OKFF" event. Below the waveform is a packet list table with the following data:

Packet #	Name	TimeStamp	RESET1
1	Bus1(SS_K9(NAND))	4	FF
2	Bus1(SS_K9(NAND))	14	90
3	Bus1(SS_K9(NAND))	24	

The table for Packet 3 is expanded to show the following details:

READ1	ADDRESS1	ADDRESS1	ADDRESS1	ADDRESS1	COMMAND1	BUSY	DATA8 OUT1	DATA8 OUT1
00	01	23	45	67	30	BUSY	BA	98

At the bottom of the packet list, there are two columns labeled "DATA8 OUT1" with values 76 and 54.