



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

SPECIFICATION

**MODEL: B09020-LAP-SAMSUNG K9 (NAND
Flash)-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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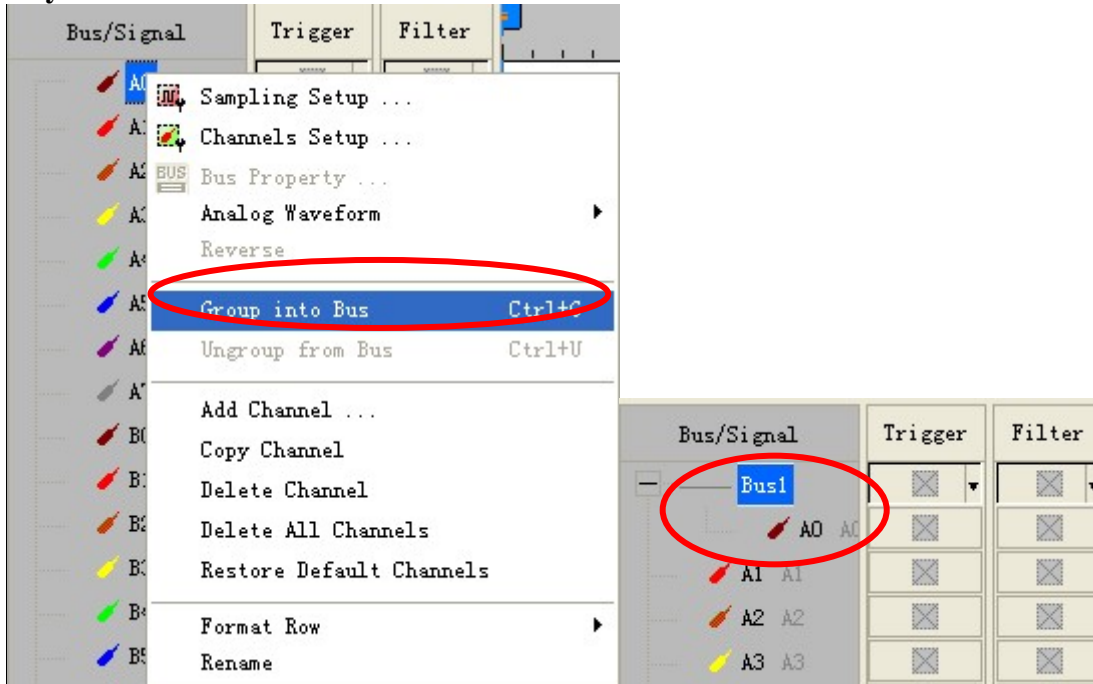
1 Software Register

Please register the software as the following steps:

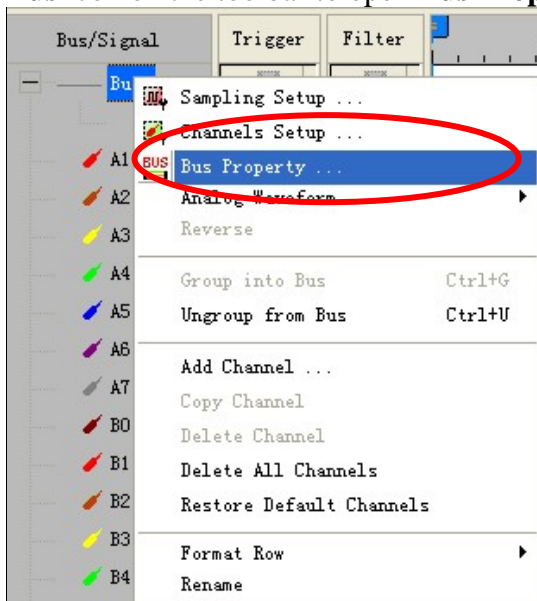
※ Remark1: The registration steps for all protocol analyzers are the same; you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.

※ 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 group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse.

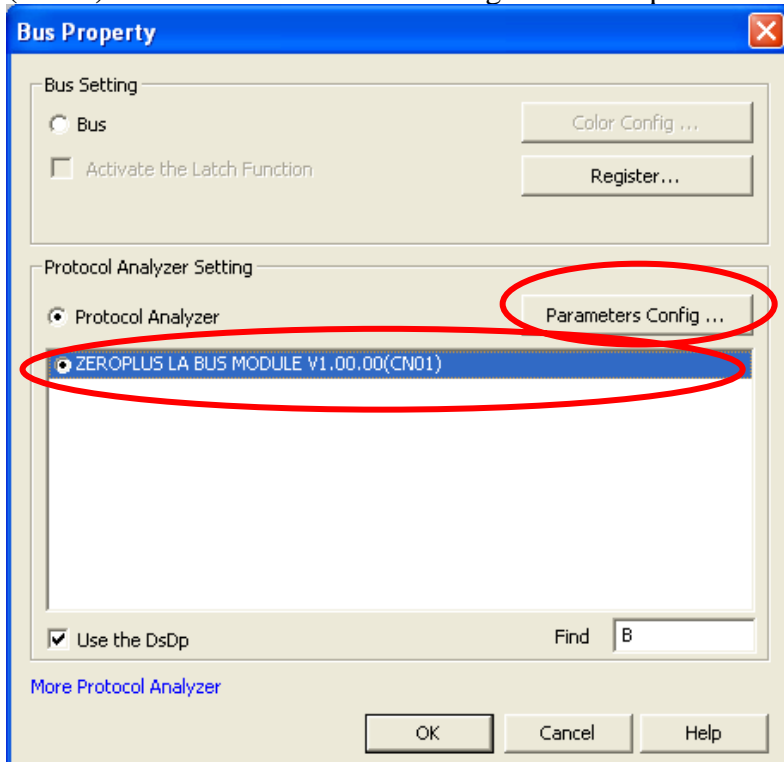


STEP 2. Select **Bus 1**, then press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

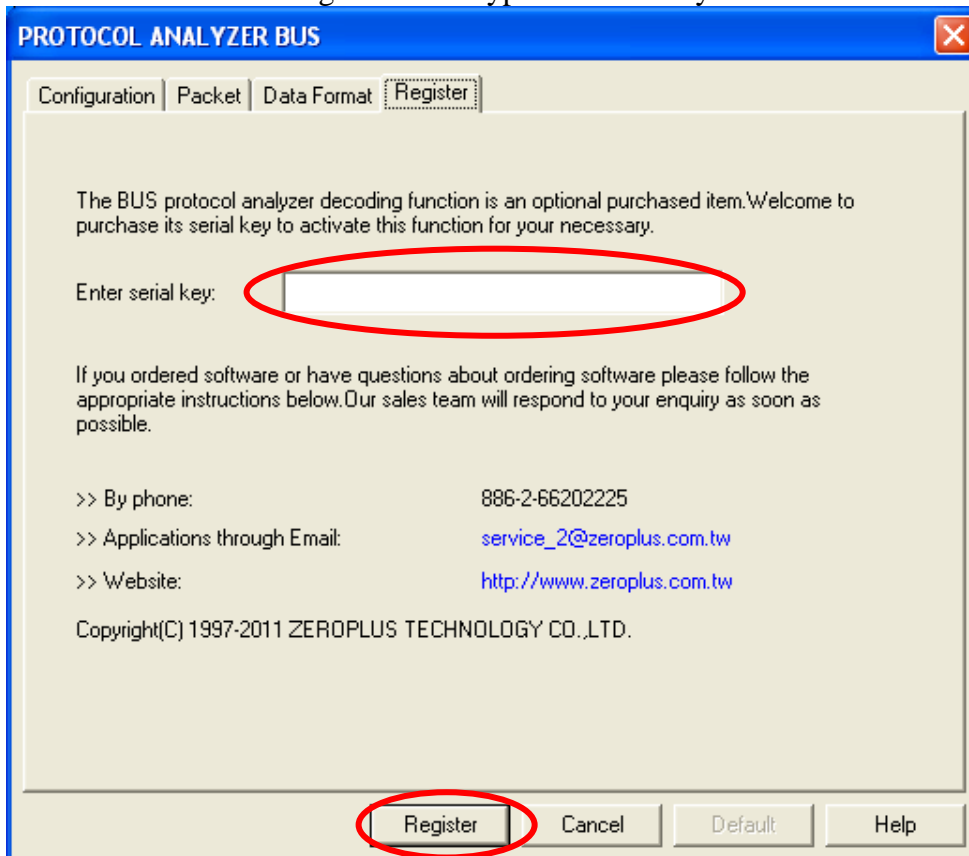




STEP 3. Select the Protocol Analyzer, and then choose **ZEROPLUS LA BUS MODULE V1.00.00 (CN01)**. Next click Parameters Configuration to open Protocol Analyzer Bus dialog box.

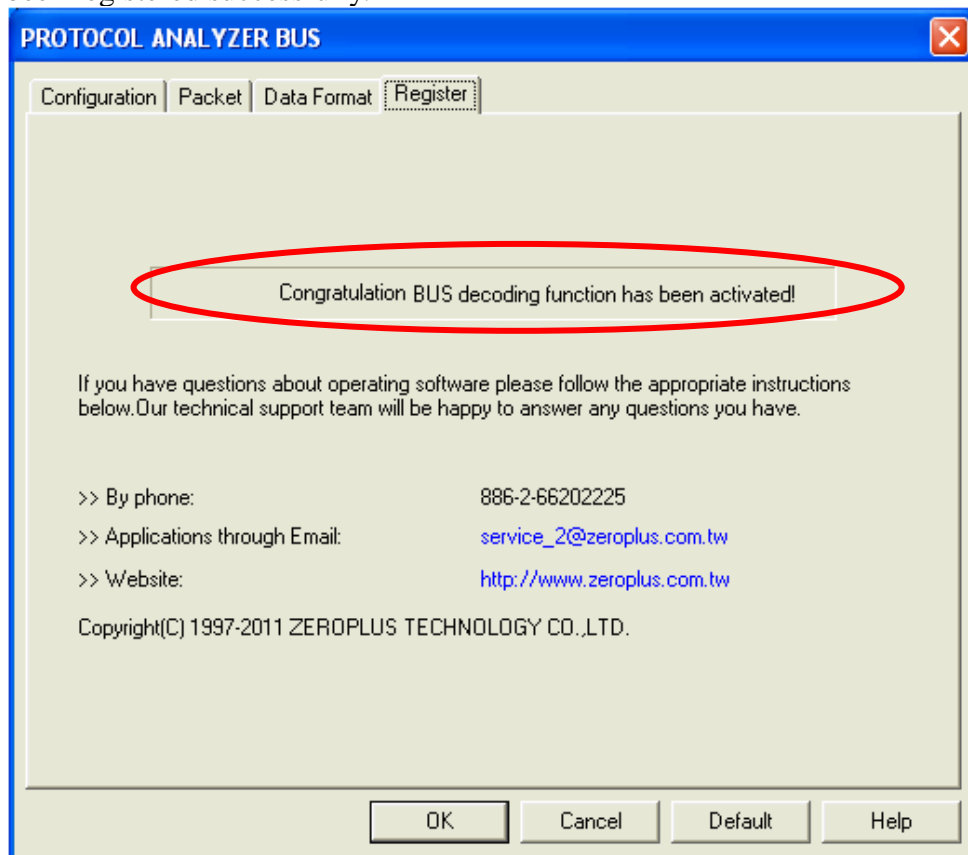


STEP 4. Press Register tab to type the serial key number of BUS. Then press Register.





STEP 5. After pressing the Register button, following dialog box will appear, it denotes that the BUS has been registered successfully.





2 User Interface

In the configuration, please refer to the below images to select options of setting SAMSUNG K9 (NAND Flash) module.

SAMSUNG K9 (NAND Flash) Configuration Dialog Box

PROTOCOL ANALYZER SAMSUNG K9(NAND Flash)

Configuration | Packet | Data Format | Register

Pin Assignment

D0->D7:	A0	-->	A7	CLE:	B0
<input type="checkbox"/> D8->D15:	Null	-->	Null	ALE:	B1
/CE1:	B5	R/B1:	B6	/RE:	B2
<input type="checkbox"/> /CE2:	B7	R/B2:	C0	/WE:	B3
<input type="checkbox"/> /CE3:	Null	R/B3:	Null	/WP:	B4
<input type="checkbox"/> /CE4:	Null	R/B4:	Null		

Protocol Analyzer Color

Command	Address	Busy	Protect	Data Out	Data In

OK Cancel Default Help

Pin Assignment: It needs 15 channels to decode at least.

D0→-D7, CLE, ALE, /RE, /WE, /WP, /CE1, R/B1 are must be selected.

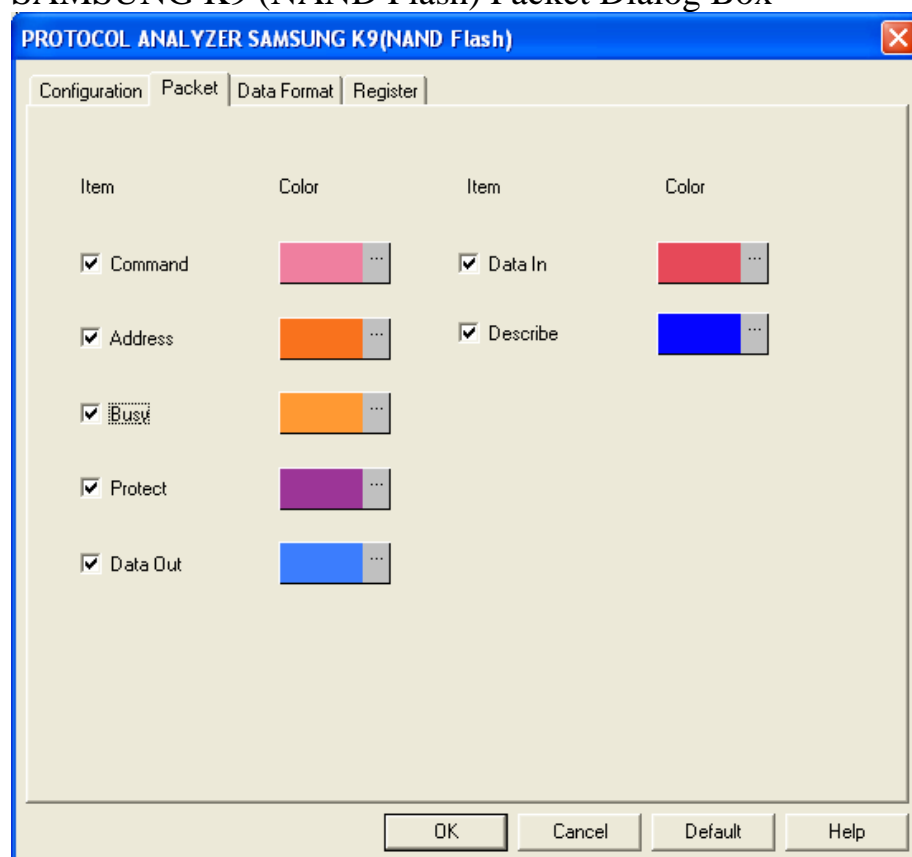
D8→D15, /CE2, /CE3, /CE4 can be selected as users' requirements.

R/B2, R/B3, R/B4, these three items' activation is matched with /CE2, /CE3, /CE4 respectively.

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

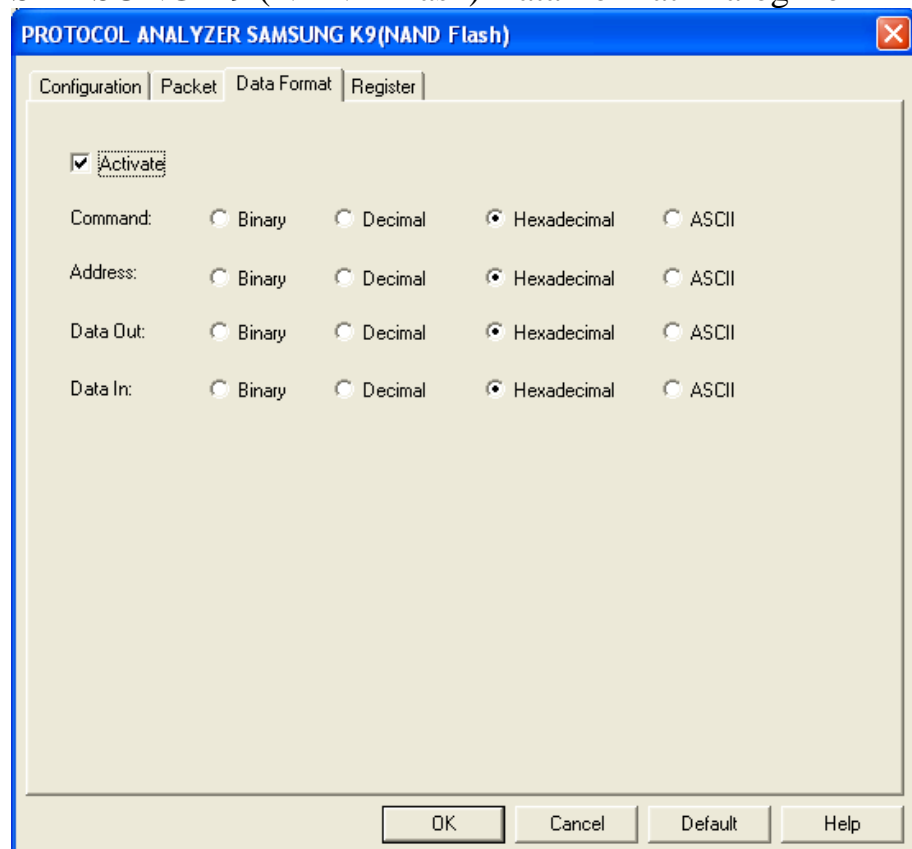


SAMSUNG K9 (NAND Flash) Packet Dialog Box



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

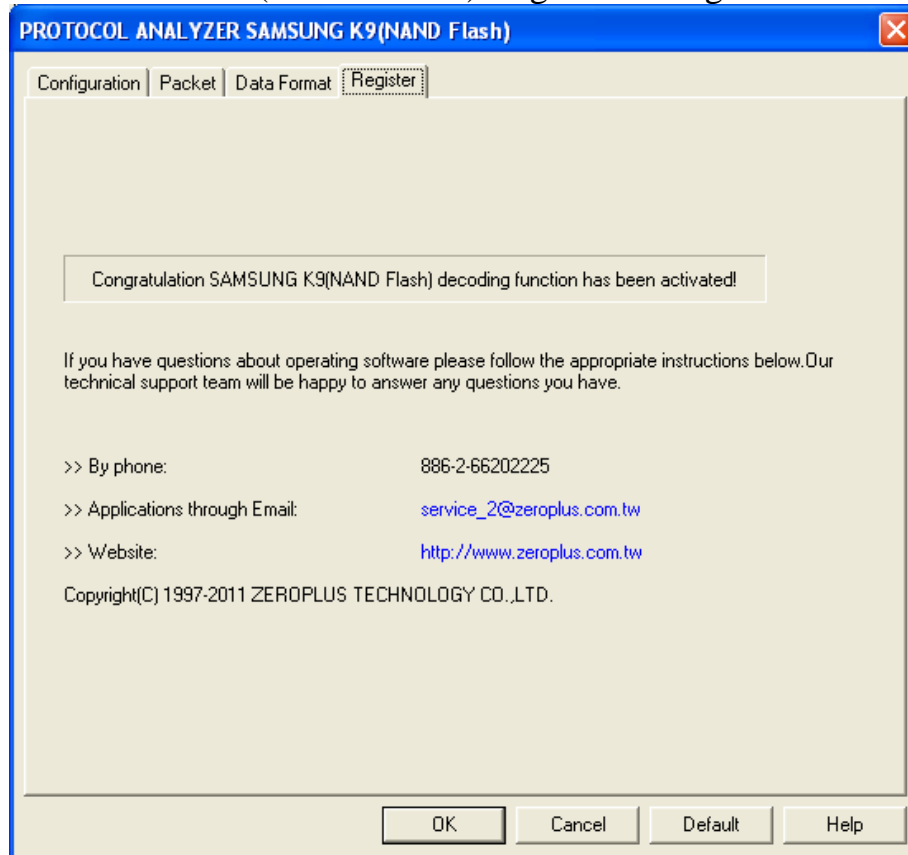
SAMSUNG K9 (NAND Flash) Data Format Dialog Box





Users can set the Data Format of the Command, Address, Data Out and Data In 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.

SAMSUNG K9 (NAND Flash) Register Dialog Box

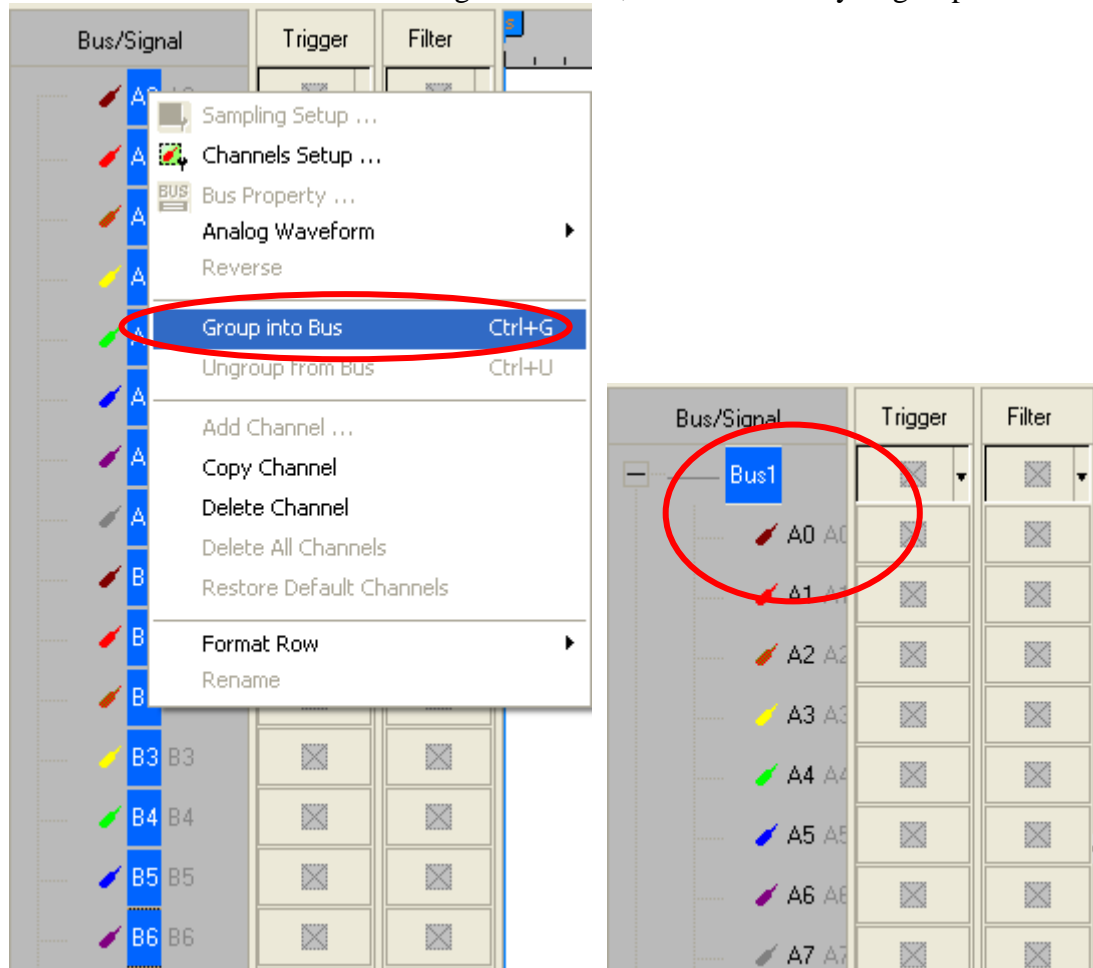


There is written ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

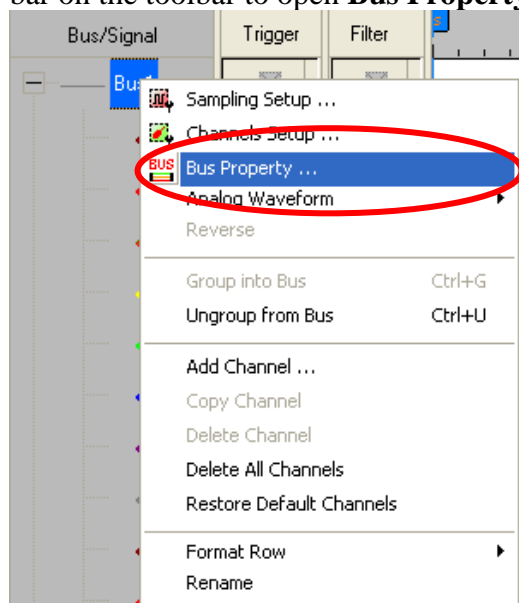


3 Operating Instructions

STEP 1. Group A0-B6 into **Bus1** by pressing the **Right Key** on the mouse. SAMSUNG K9 (NAND Flash) needs fifteen channels to decode signals at least, so it is necessary to group fifteen or more channels into a Bus.

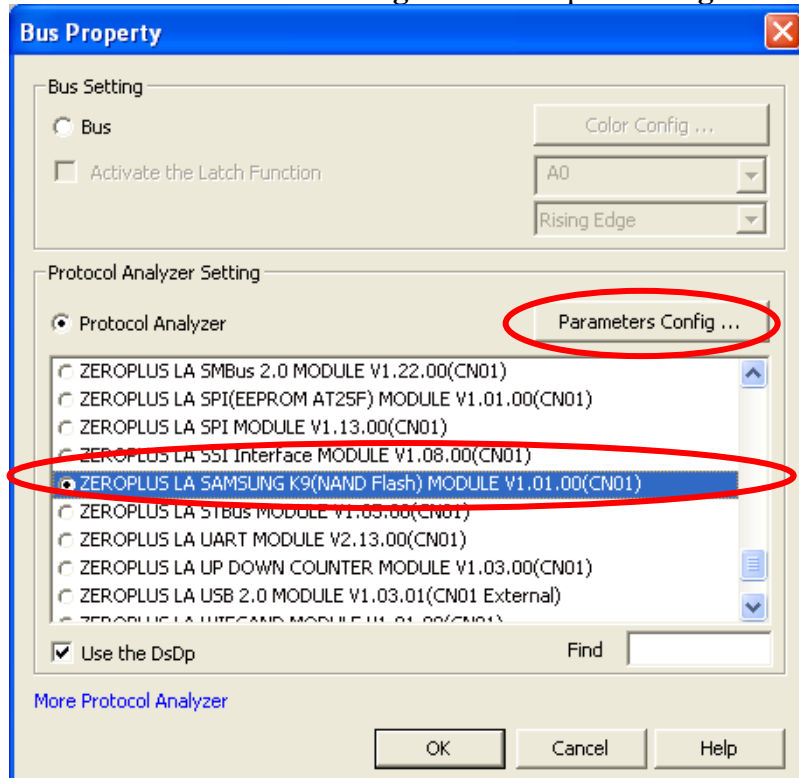


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** bar on the toolbar to open **Bus Property** dialog box.

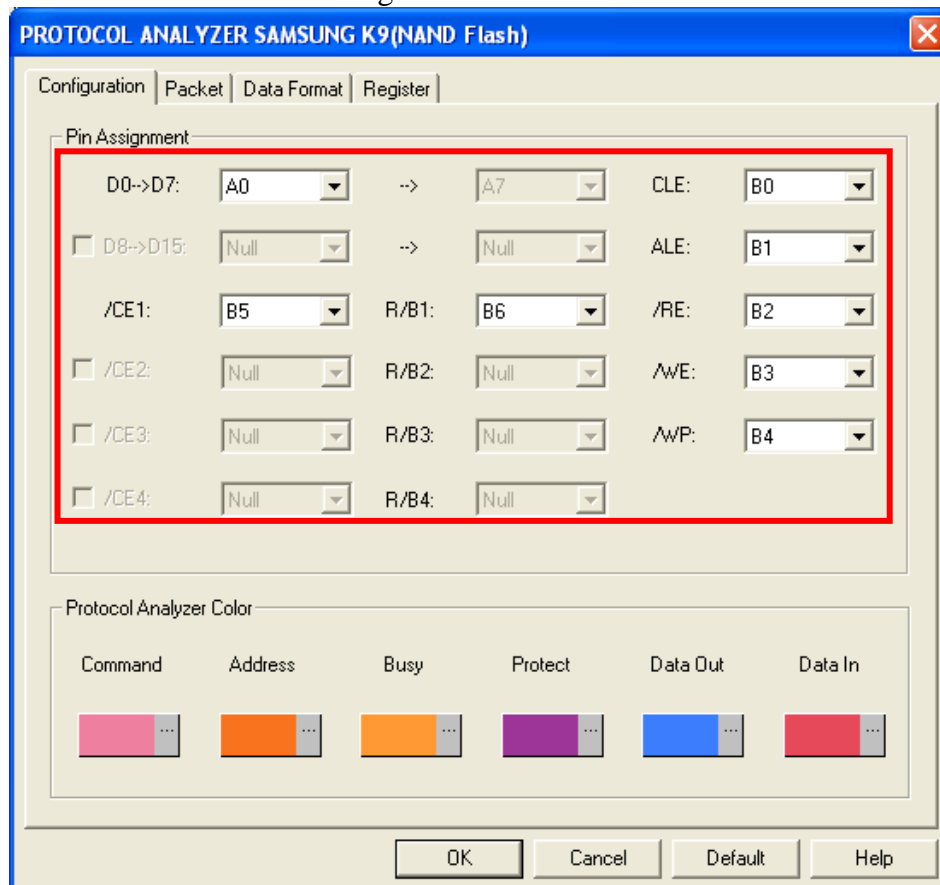




STEP 3. For Protocol Analyzer SAMSUNG K9(NAND Flash) Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA SAMSUNG K9(NAND Flash) MODULE V1.01.00 (CN01)**. Next click **Parameters Configuration** to open **Configuration** dialog box.

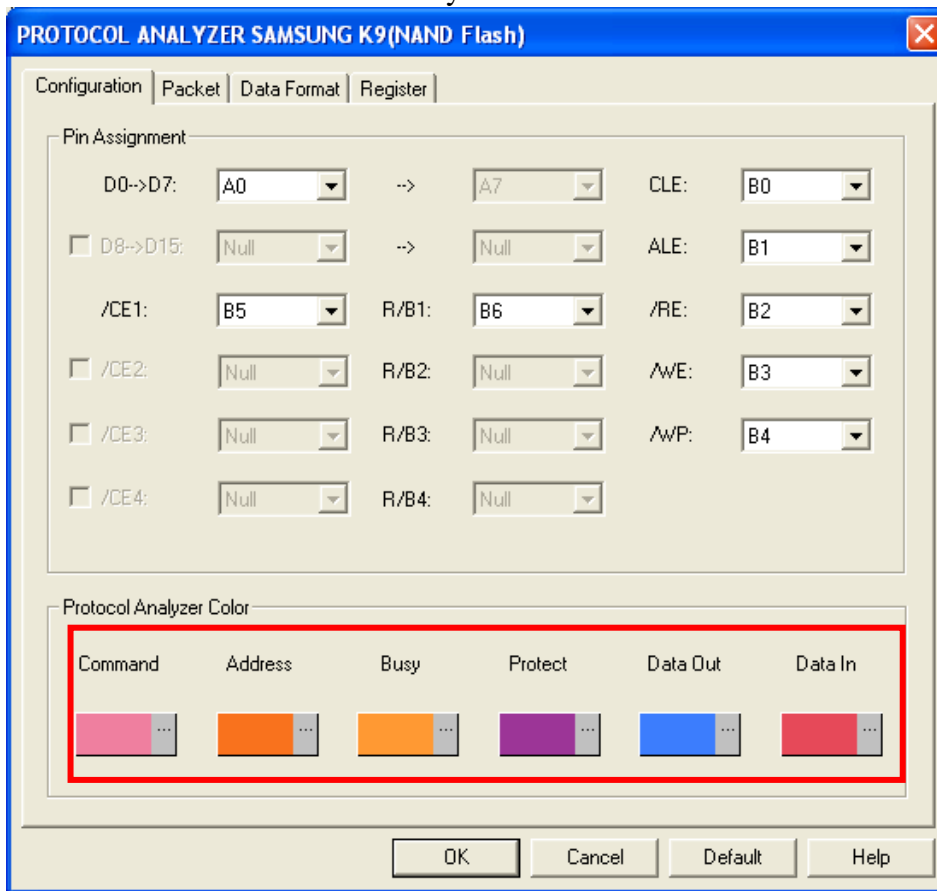


STEP 4. Set the Pin Assignment.



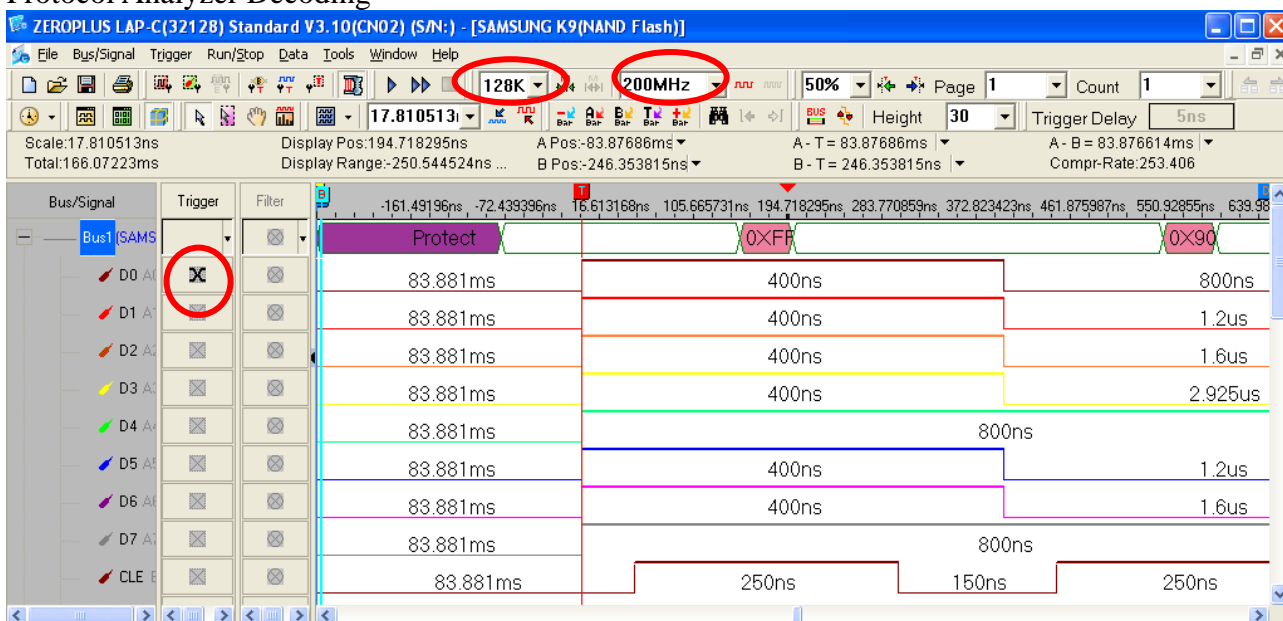


STEP 5. Set the Protocol Analyzer Color.



STEP 6. 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 200MHZ. (the sampling frequency should be more than eight times higher than the signal to be tested)

Protocol Analyzer Decoding





Packet List

