



**孕龍科技股份有限公司**  
**ZEROPLUS TECHNOLOGY CO.,LTD**

# Instrument Business Department

## UART Specification

Version : V2.0

## Content

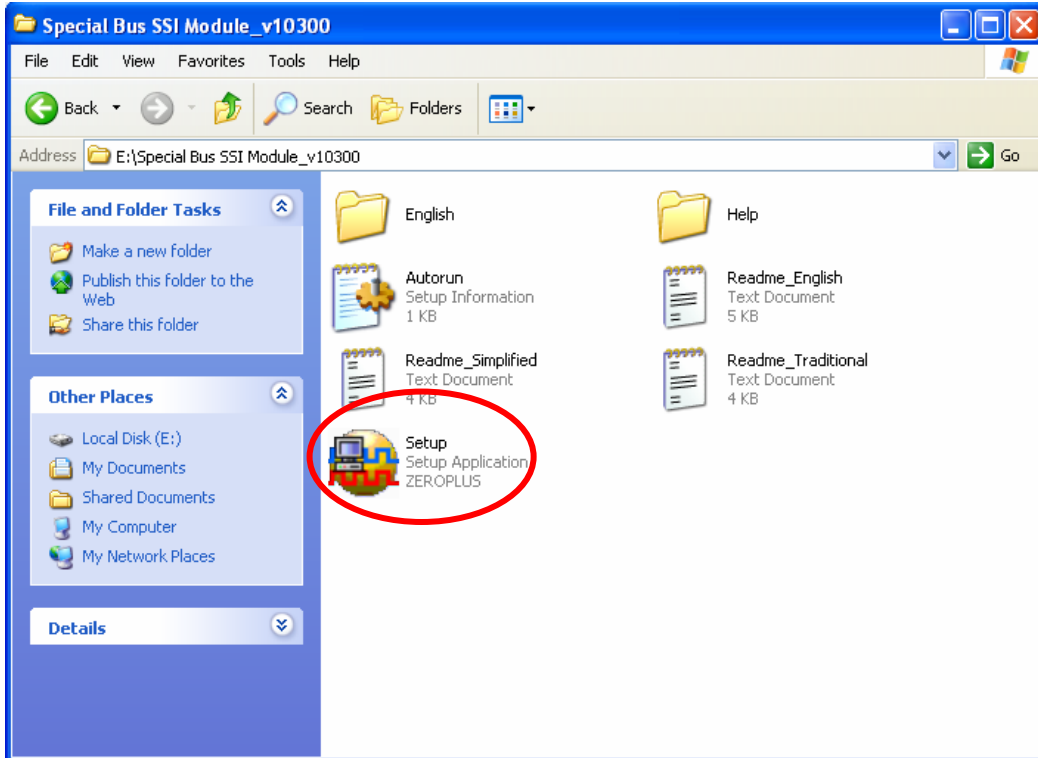
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# 1 Software Installation

Please install the software as the following steps :

※ Remark: The installation steps for all buses are the same; you can complete installation by following procedures. Below is an example on how to install SSI bus.

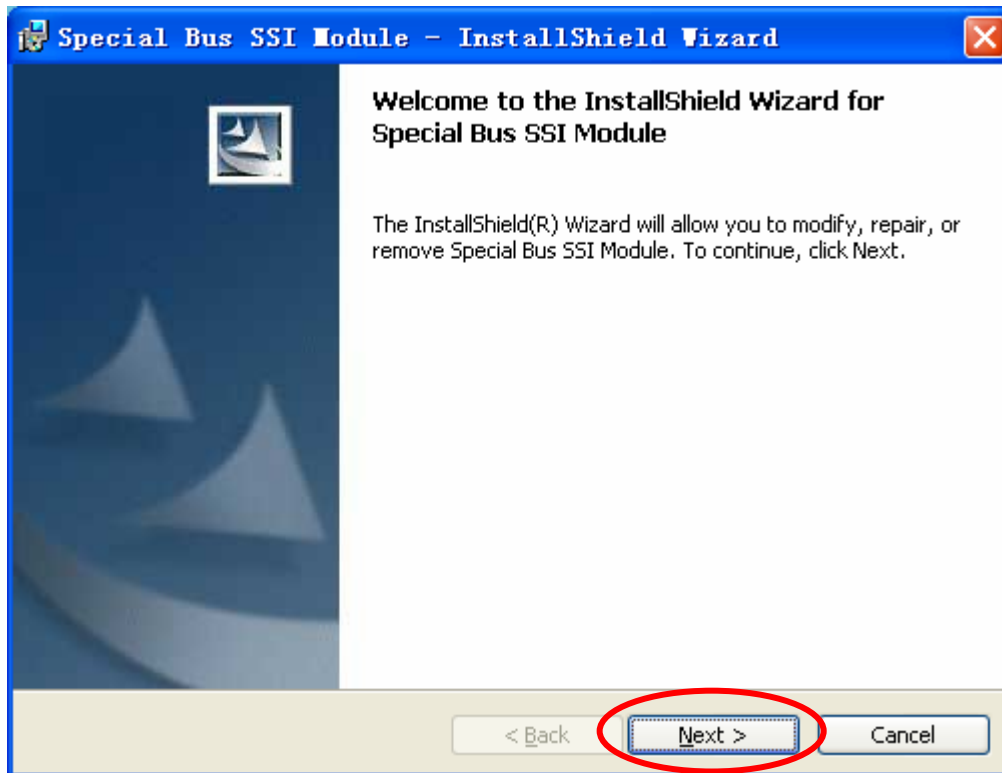
## STEP 1. Install Bus Module



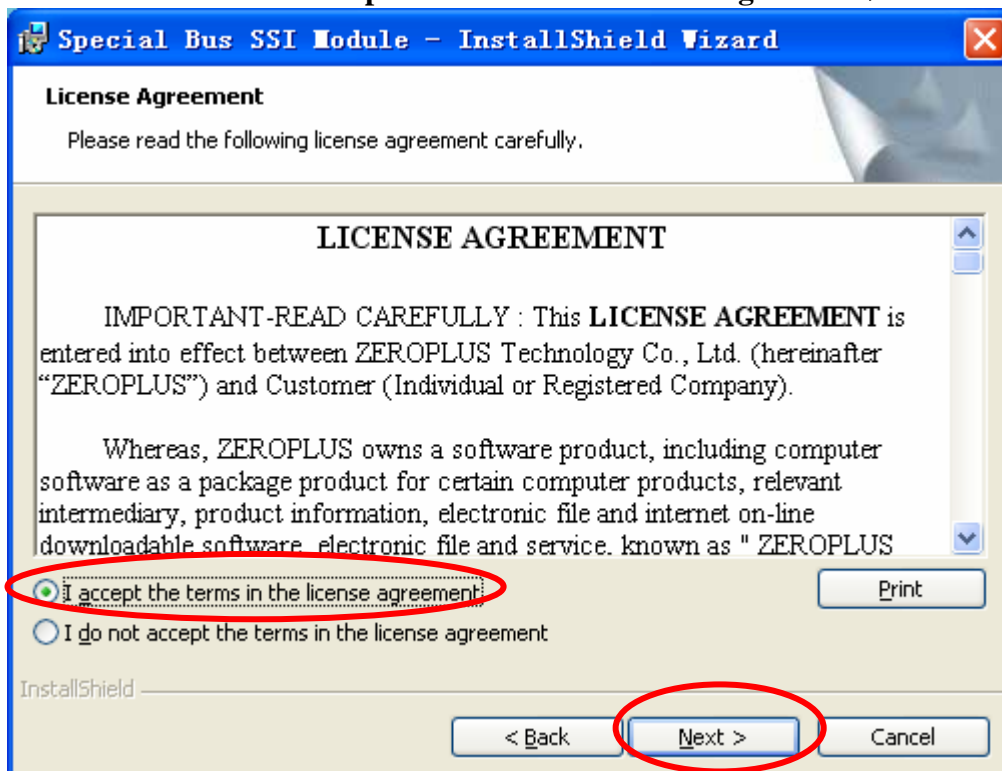
## STEP 2. Click Install.



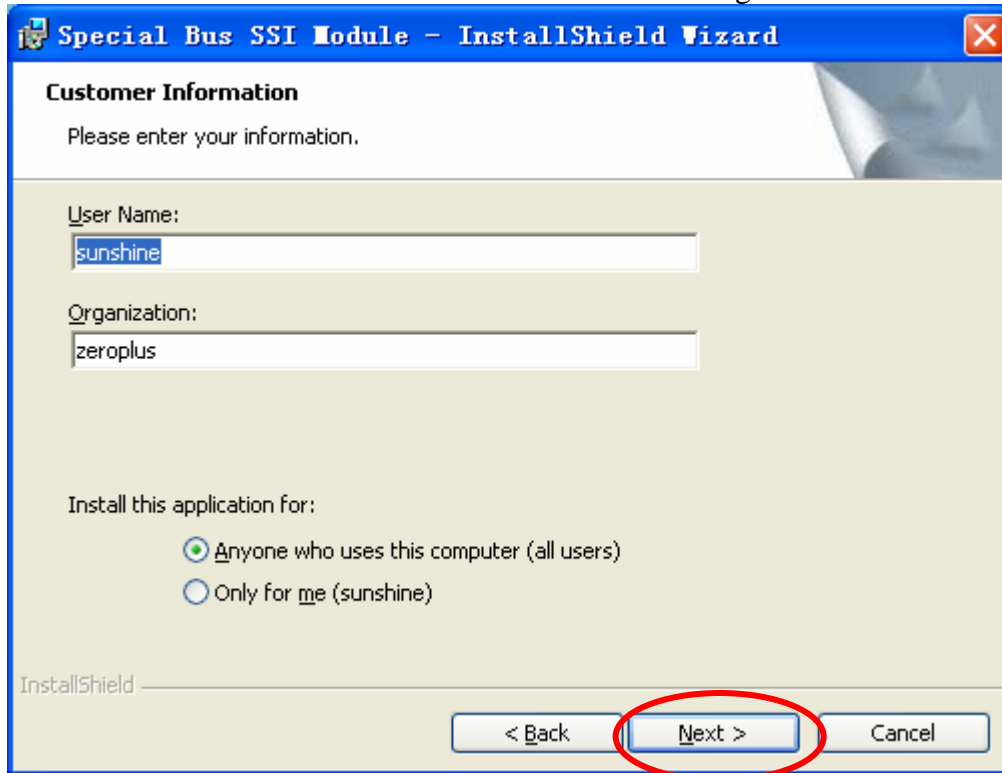
**STEP 3.** Click Next.



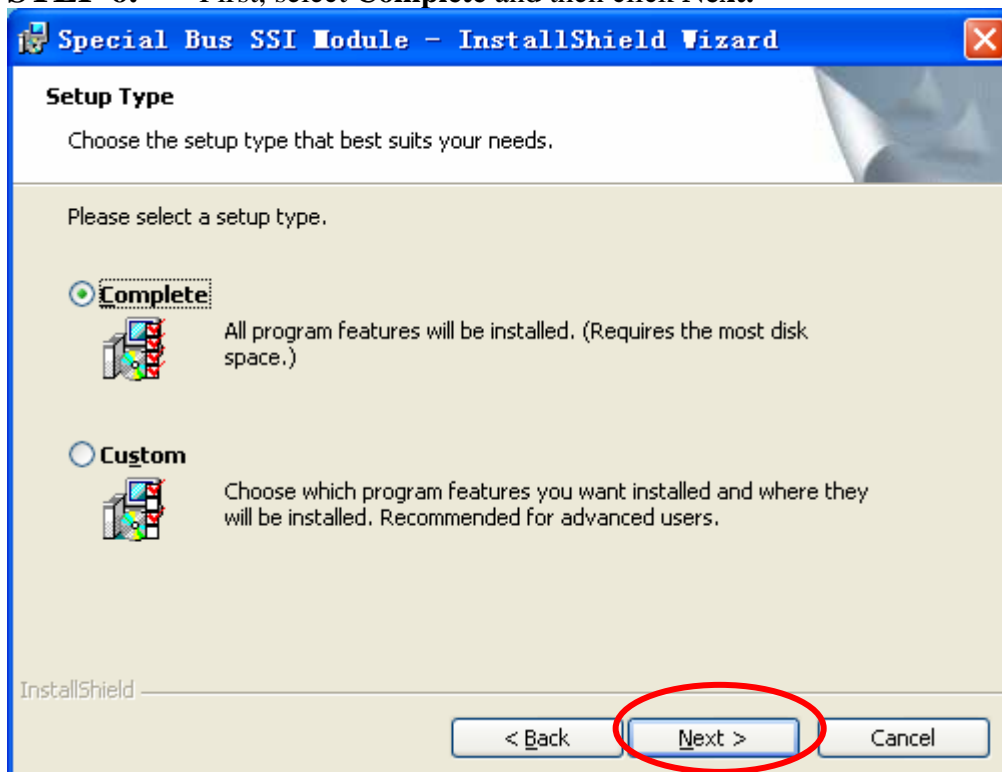
**STEP 4.** Select **I accept the terms in the license agreement**, and then press **Next**.



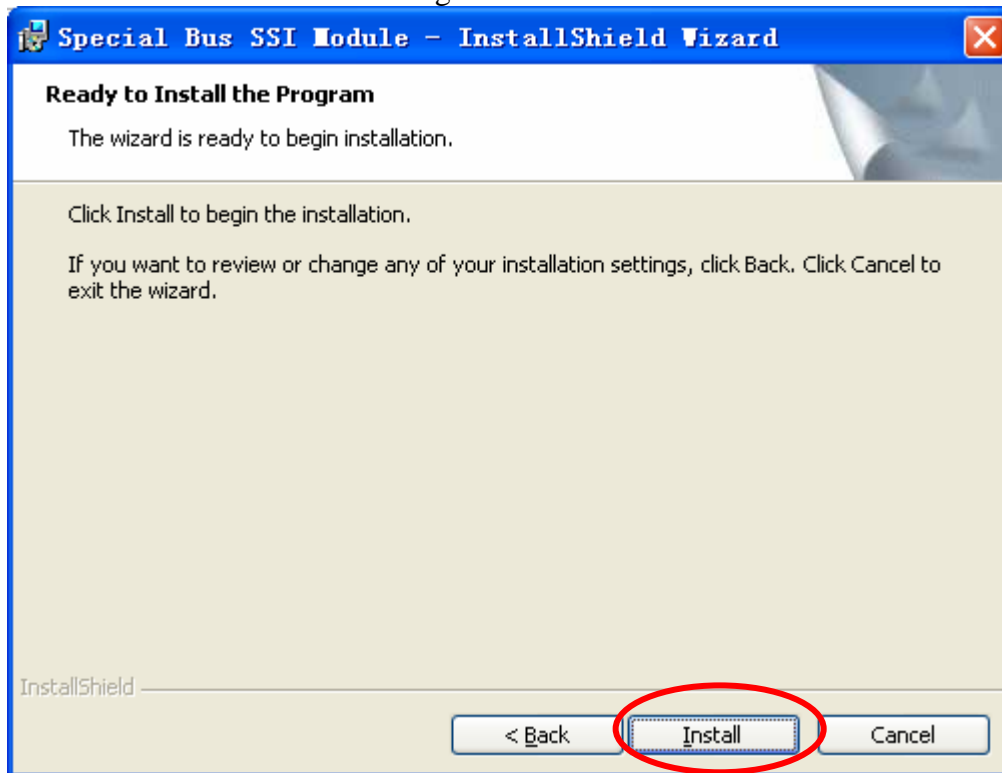
**STEP 5.** Fill in user information in the below dialog box and click **Next**.



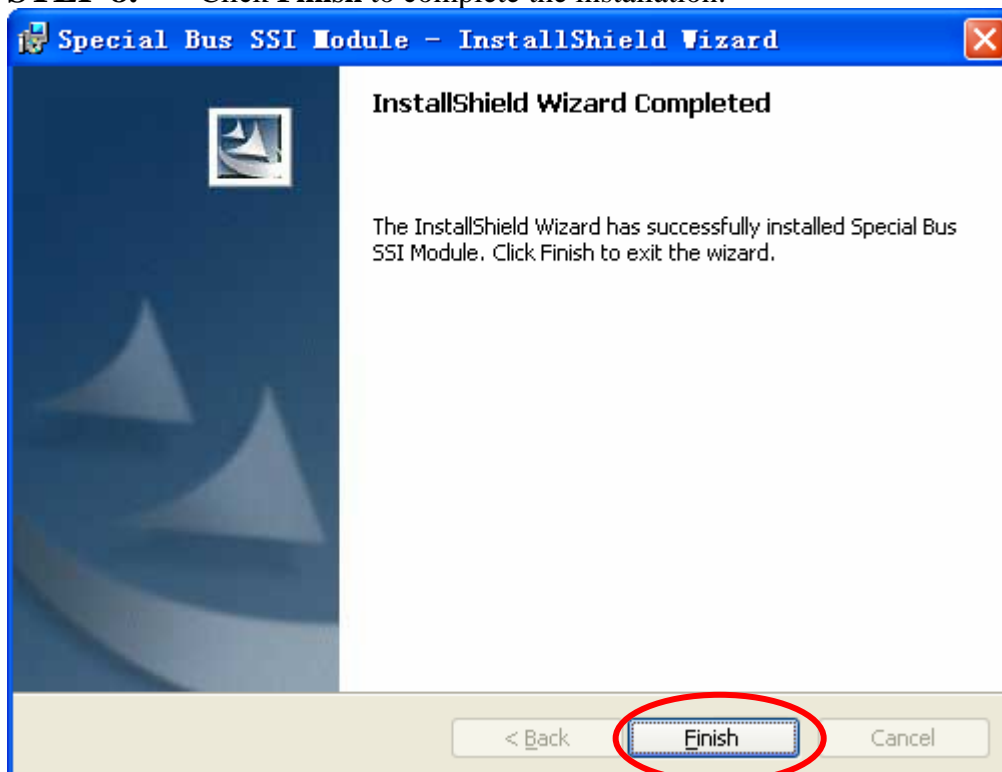
**STEP 6.** First, select **Complete** and then click **Next**.



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



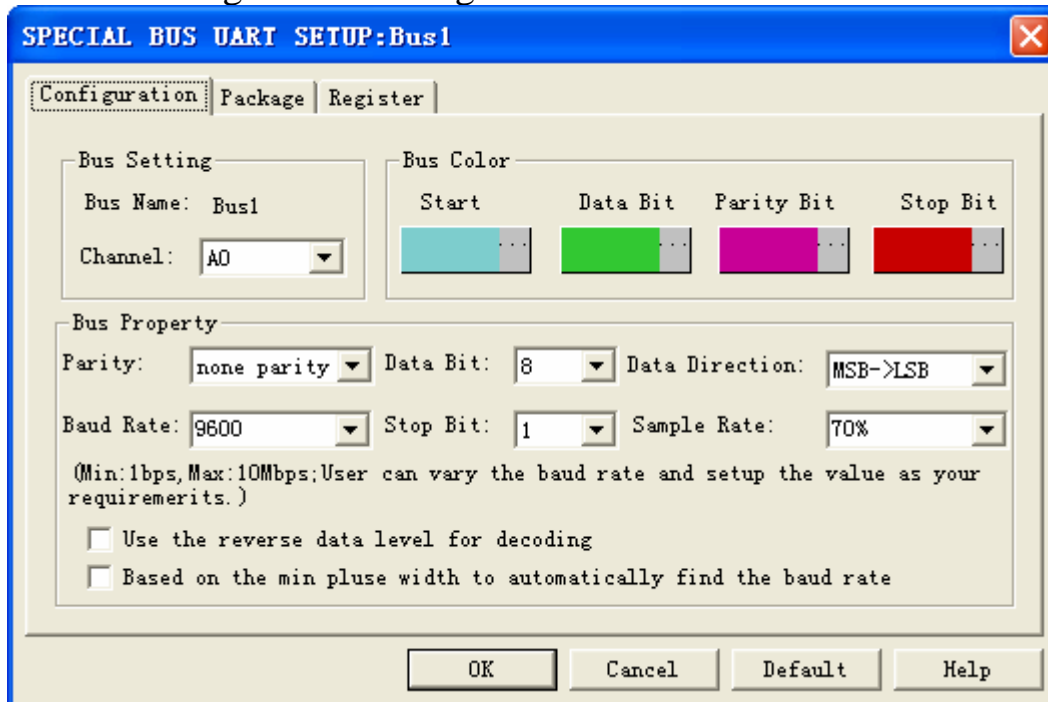
**STEP 8.** Click **Finish** to complete the installation.



## 2 User Interface

Please refer to the below images to select options of setting **UART Module**

### UART Configuration Dialog Box



**Bus Name:** Select the bus name for setting UART bus presently.

**Channel:** Select the channel that needs to analyze from the dropdown menu.

**Bus Color:** Set colors for every section.

**Bus Property:**

**Baud Rate:** The dropdown menu has options as below.

110,300,600,1200,2400,4800,9600,19200,38400,57600,115200,230400,460800 and 921600. User can select from the menu, if the baud rate does not meet your requirement, user can customize a value within the range 1~10M BPS according to user's requirements.

**Parity settings:** There are three options on the dropdown menu: none parity, odd parity and even parity.

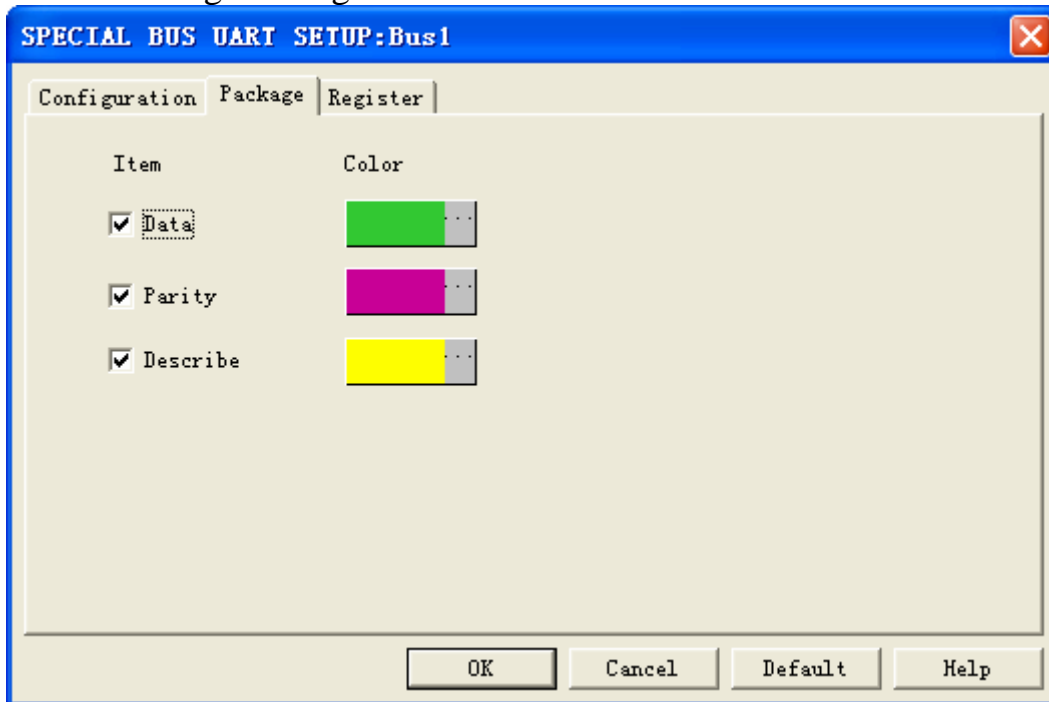
**Data Bit:** Select the data bit within the range 4~8 bit from the dropdown menu.

**Stop Bit:** Select the stop bit from the three options: 1, 1.5 and 2 bit.

**Direction :** MSB->LSB and LSB->MSB.

**Sampling Rate:** The default values are 50% ,60%,70%,80% and 90%,if the value doesn't meet user's requirements, user can customize a value within the range 50%~90%,and the precision is 1%.

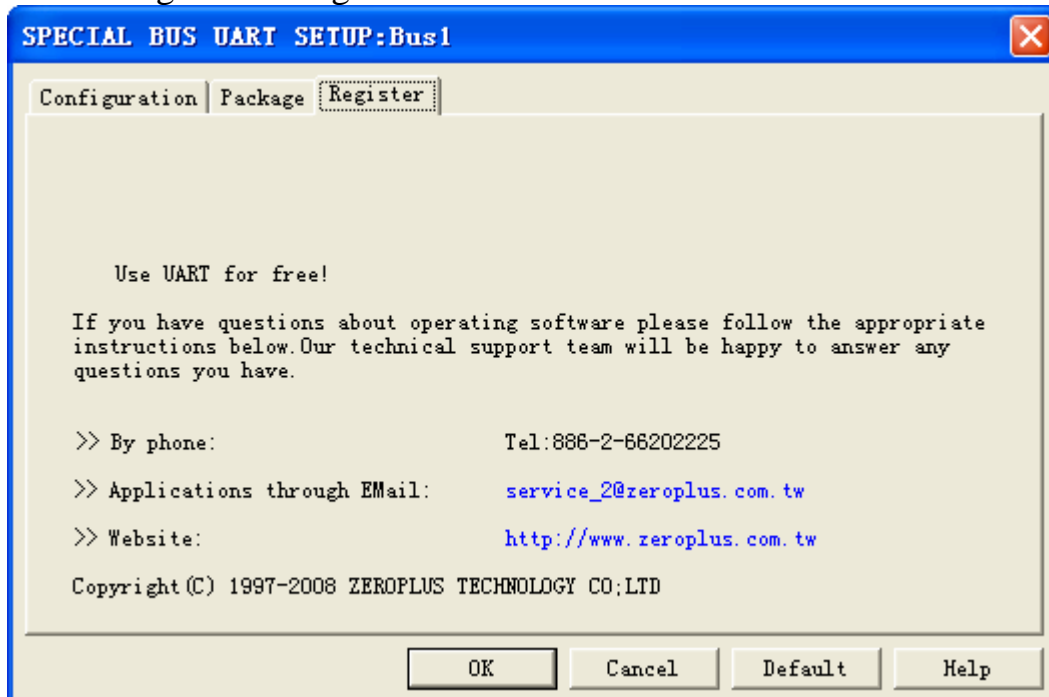
### UART Package Dialog Box



**Item:** Select the items displayed in the package list, including Data, Parity and Describe.

**Color:** Set the color of the item displayed in the package list.

### UART Register Dialog Box

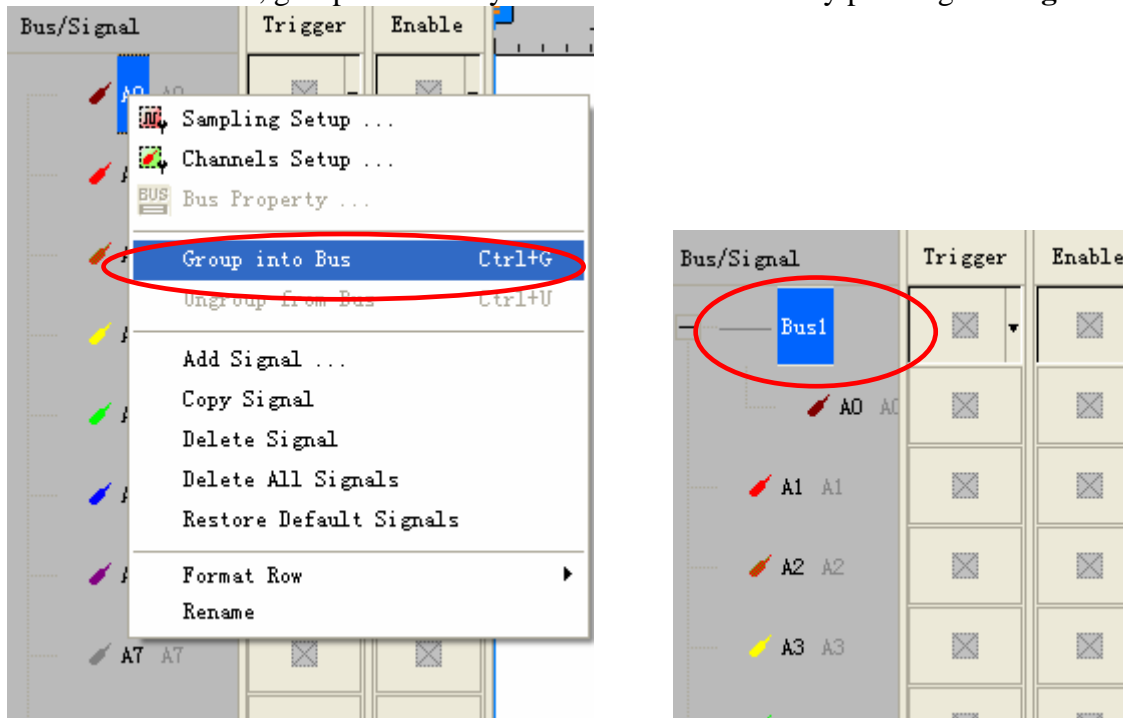


There is ZeroPlus company detailed information. If you have any questions about software Operations, you can contact ZeroPlus by Telephone or Email.

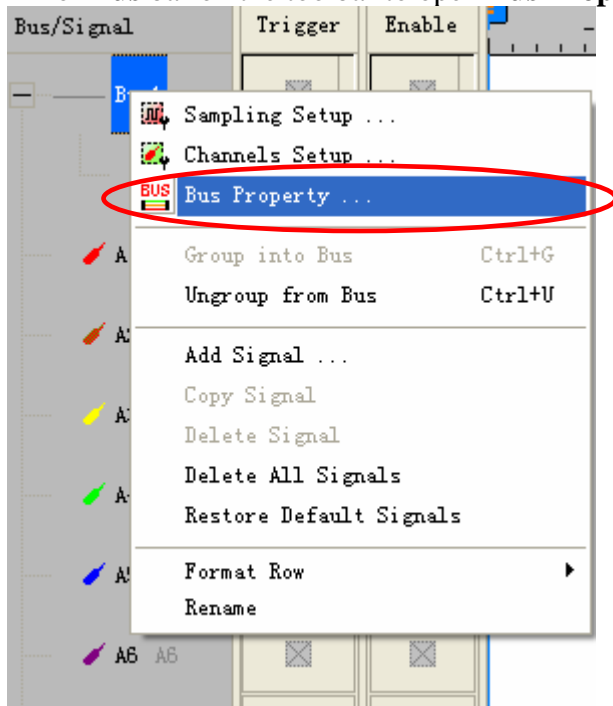


### 3 Operating Instructions

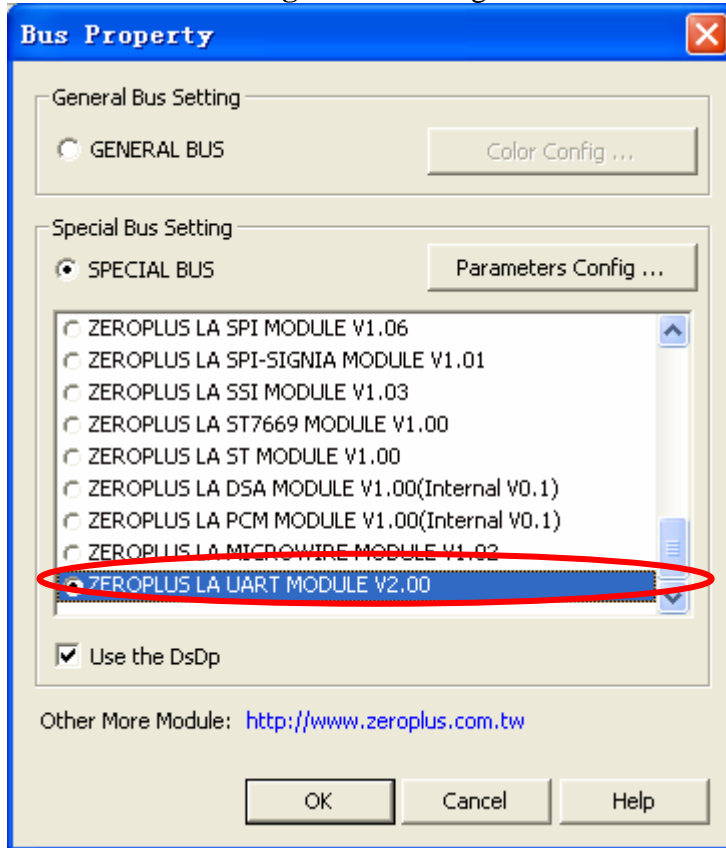
**STEP 1.** First, group the unanalyzed channels into **bus1** by pressing the **Right Key** on mouse.



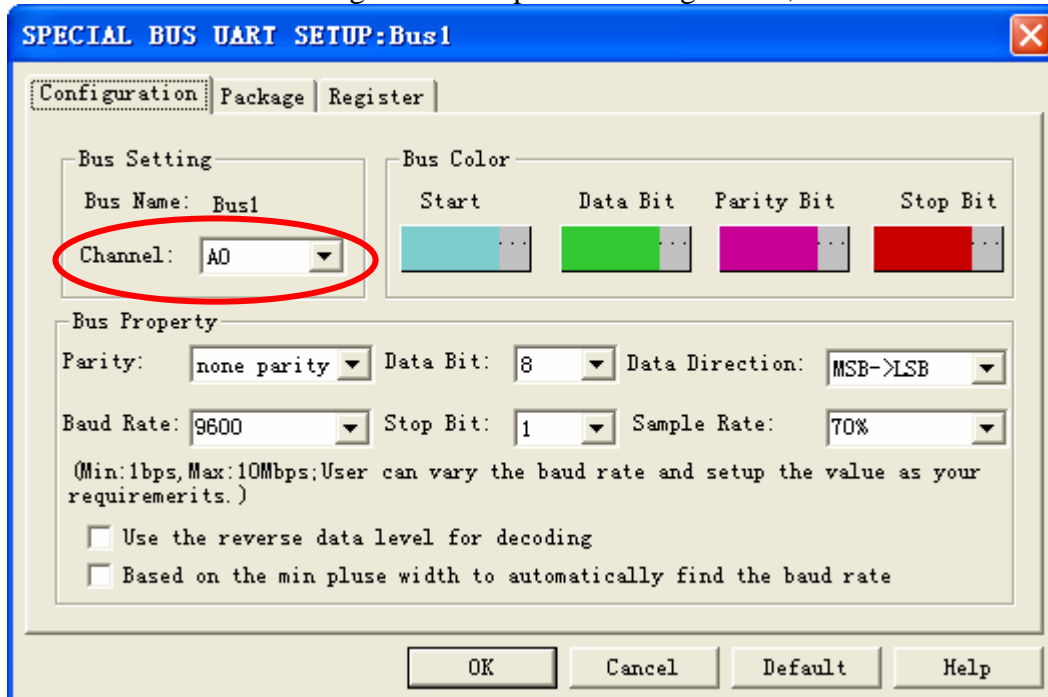
**STEP 2.** Select **Bus1**, then press **Right key** on mouse to list menu, then press **Bus Property** or **Bus bar** on the toolbar to open **Bus Property** dialog box.



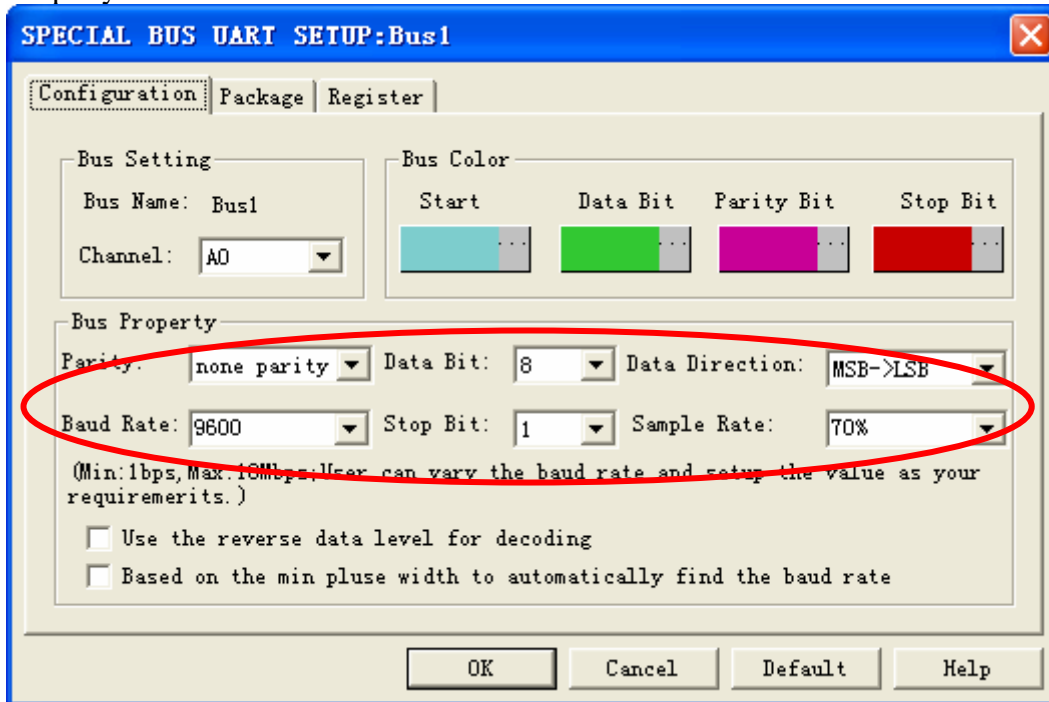
**STEP 3.** For Special Bus UART Parameters Configuration, select Special Bus, and then choose **ZEROPLUS LA UART MODULE V2.00**. Next click **Parameters Configuration** to open **Parameters Configuration** dialog box.



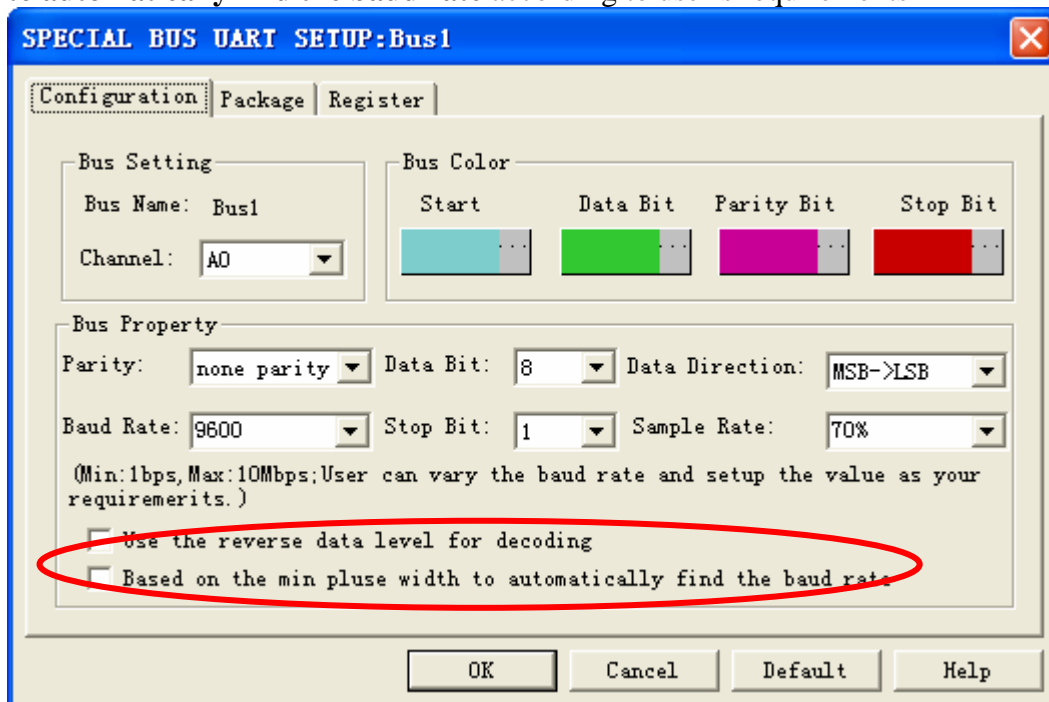
**STEP 4.** Click Configuration to open the configuration, and then set channel for UART.



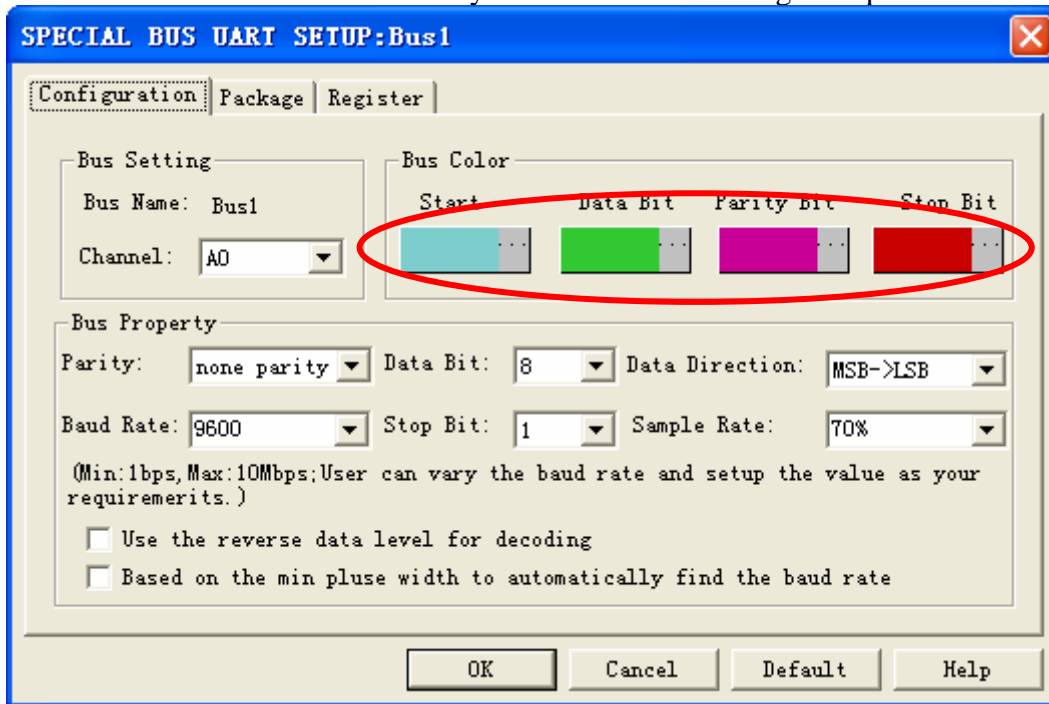
**STEP 5.** Set Parity, Data Bit, Direction, Baud Rate Stop Bit and Sampling Rate for Bus Property.



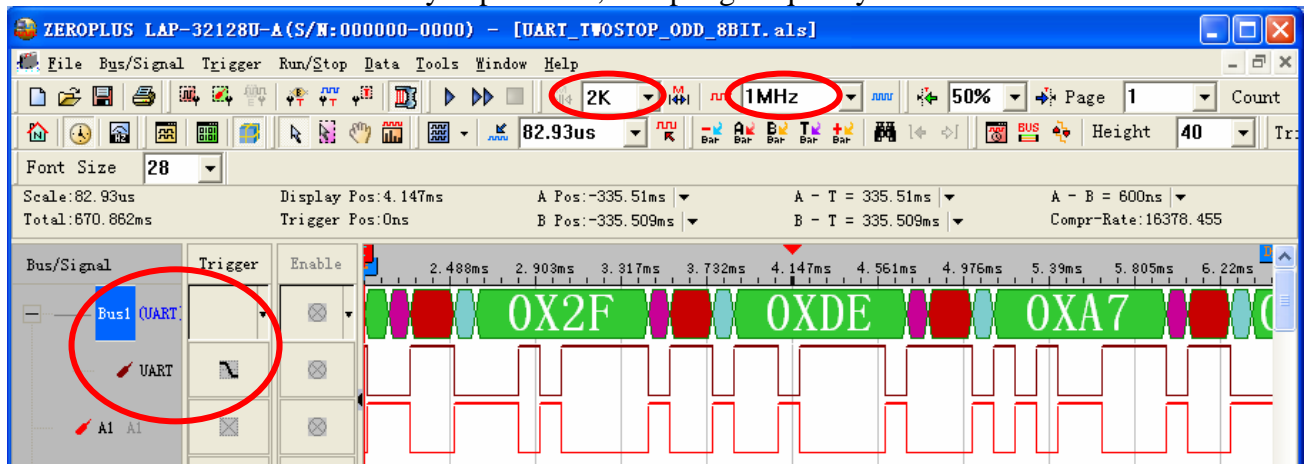
**STEP 6.** Select Use the reverse data level for decoding and Based on the min pluse width to automatically find the baud rate according to user's requirements



**STEP 7.** Set the color for every item in Bus1 according to requirements.



**STEP 8.** Following pictures show the completion of the Bus decoding and package list. The conditions are set as: Memory depth is 2K, Sampling frequency is 1MHz



Following picture shows the package list and waveforms display.

