

Instrument Business Department

PS/2 Specification

Version: V1.0



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1 Software Installation

Please follow below steps to install the software:

※ Remarks: The installation steps for all buses are the same; you can complete installation as following procedures. The below is an example to install SSI bus

STEP1. Install Bus Module



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STEP 3. Click Next.



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

🔂 Special Bus SSI Nodule - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	4
LICENSE AGREEMENT	•
IMPORTANT-READ CAREFULLY : This LICENSE AGREEMENT is entered into effect between ZEROPLUS Technology Co., Ltd. (hereinafter "ZEROPLUS") and Customer (Individual or Registered Company).	
Whereas, ZEROPLUS owns a software product, including computer software as a package product for certain computer products, relevant intermediary, product information, electronic file and internet on-line downloadable software, electronic file and service, known as "ZEROPLUS	•
I accept the terms in the license agreement Principal Pr	nt
InstallShield	ncel



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

🙀 Special Bus SSI Nodule - InstallShield Nizard	×
Customer Information	
Please enter your information.	
User Name:	
Maikle	
Orapaization	
Jogic	
Install this application for:	
 Anyone who uses this computer (all users) 	
InstallShield	
< <u>B</u> ack <u>N</u> ext >	Cancel

STEP 6. At first, select Complete option and then click Next.

👹 Special Bus	SSI ∎odule – InstallShield Tizard	(
Setup Type Choose the setu	up type that best suits your needs.	and the second se
Please select a	setup type.	
• <u>Complete</u>	All program features will be installed. (Requires the most disk space.)	
C Cu <u>s</u> tom	Choose which program features you want installed and where they will be installed. Recommended for advanced users.	
InstallShield	< <u>B</u> ack <u>N</u> ext > Cancel	



STEP 7. Click Install to begin the installation.

🔂 Special Bus SSI Nodule - InstallShield Nizard	×
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
Installbhield < <u>Back</u> Install Cancel	

STEP8 . Click Finish to complete the installation.

🔂 Special Bus SSI Nodule - InstallShield Nizard 🛛 💌		
	InstallShield Wizard Completed	
	The InstallShield Wizard has successfully installed Special Bus SSI Module. Click Finish to exit the wizard.	
	< <u>B</u> ack Einish Cancel	



2 User Interface

Please refer to below images to select options of setting PS/2 Module

PS/2 Configuration Dialog Box

SPECIAL BUS PS	2 SETUP:Bus1			×
Configuration	Package Register			
PCO.				
Bur Nono	Buel CIV	40		
Dus maile.				
-Bus Property	/			
CLK Y	'idth Max: 50	ງ 💽 ນຣ	Data Direction	MSB 💌
-Bus Color-				
Start	Data	Parity S	STOP AC	К
		OK Cancel	Default	Help

PS/2: There are two channels for PS/2 as signal line, herein, it only marks channel name and the sign for channel selection.

CLK channel: The default is A0.

DATA channel: The default is A1.

Bus Settings:

CLK Width Max: The default is 50US, user can select from the dropdown menu or enter a value within the range 50-100.

Data Direction: There are two options ,user can select from the dropdown menu, the default is LSB->MSB

Bus Color:

START DATA PARITY STOP ACK



PS/2 Package Dialog Box

SPECIAL BUS PS/2 SETUP:Bus1		
Configuration [Pac]	nage Register	
Item	Color	
🔽 Data		
🔽 Parity		
🔽 Stop		
🔽 Ack/Nack		
🔽 Describe	····	
	OK Cancel Default	Help

PS/2 Register Dialog Box

SPECIAL BUS PS/2 SETUP:Bus1	×
Configuration Package Register	
The PS/2 bus decoding function is optional purchased item.Welcome to purchase its serial key to activate this function for your necessary.	
Enter serial key:	
If you ordered software or have questions about ordering software please follow the appropriate instructions below.Our sales team will respond to your enquiry as soon as possible.	
>> By phone: Tel:886-2-66202225	
>> Applications through EMail: service_2@zeroplus.com.tw	
>> Website: http://www.zeroplus.com.tw	
Copyright(C) 1997-2008 ZEROPLUS TECHNOLOGY CO;LTD	
Register Cancel Default Help	

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



3. Operating Instructions





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.



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STEP 3. For Special Bus PS/2 Parameter Configuration, select Special Bus, and then choose **ZEROPLUS LA PS/2 MODULE V1.02**. Next click **Parameters Configuration** to open **Parameters Configuration** dialog box.

Bus Property X
General Bus Setting
C GENERAL BUS Color Config
Special Bus Setting
SPECIAL BUS Parameters Config
 ZEROPLUS LA CAN 2.0B MODULE V1.05 ZEROPLUS LA JTAG 2.0 MODULE V1.00(Internal V0.1) ZEROPLUS LA ST7669 MODULE V1.00 ZEROPLUS LA MANCHESTER MODULE V1.00 ZEROPLUS LA MILLER MODULE V1.00 ZEROPLUS LA SD 1.1 MODULE V1.02 ZEROPLUS LA USB 1.1 MODULE V1.02 ZEROPLUS LA MODULE V1.00
☑ Use the DsDp
Other More Module: http://www.zeroplus.com.tw
OK Cancel Help

STEP 4. Press Register tab to type the serial key number of logic analyzer. Then, press **Register.**

SPECIAL BUS PS/2 SETUP:Bus1	×
Configuration Package Register	
The PS/2 bus decoding function is opt purchase its serial key to activate to Enter serial key:	tional purchased item. Welcome to this function for your necessary.
If you ordered software or have que please follow the appropriate instr respond to your enquiry as soon as	stions about ordering software uctions below.Our sales team will possible.
>> By phone:	Tel:886-2-66202225
>> Applications through EMail:	service_2@zeroplus.com.tw
>> Website:	http://www.zeroplus.com.tw
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Regist	er Cancel Default Help



STEP 5. After completing **Register**, come back to the **Bus property** dialog box, then click the **parameters configuration** to start the Special Bus PS/2 setup.

Bus Property
General Bus Setting
Color Config
Special Bus Setting
SPECIAL BUS Parameters Config.
 ZEROPLUS LA CAN 2.0B MODULE V1.05 ZEROPLUS LA JTAG 2.0 MODULE V1.00(Internal V0.1) ZEROPLUS LA ST7669 MODULE V1.00 ZEROPLUS LA MANCHESTER MODULE V1.00 ZEROPLUS LA MILLER MODULE V1.00 ZEROPLUS LA PS/2 MODULE V1.02 ZEROPLUS LA USB 1.1 MODULE V1.02 ZEROPLUS LA MODULE V1.00 ZEROPLUS LA MODULE V1.00 ZEROPLUS LA MODULE V1.02 ZEROPLUS LA MODULE V1.00 ZEROPLUS LA MODULE V1.00 ZEROPLUS LA MODULE V1.00
Other More Module: http://www.zeroplus.com.tw
OK Cancel Help

STEP 6. At first ,set up the two channels for PS/2

SPECIAL BUS PS/2 SETUP:Bus1	×
Configuration Package Register	
PS2	
Bus Name: Busi CLK AO 🔽 DATA A1	
Bus Property CLK Width Max: 50 VS Data Direction	
Bus Color- Start Data Parity STOP ACK]
OK Cancel Default Help	



STEP 7. After setting the channels ,it turns to set Bus property ,which includes CLK Width Max and Data Direction

SPECIAL BUS PS/2 SETUP:Bus1	×
Configuration Package Register	
Bus Name: Bus1 CLK AO 🔽 DATA A1 💌	
Bus Property	
CLK Width Max' 50 - Lun Data Iron Nuch	
US Direction	
-Bus Color	
Start Data Parity STOP ACK	
OK Cancel Default Help	

STEP 8. Set up the bus color for Start, Data, Parity, STOP and ACK.

SPECIAL BUS PS/2 SETUP:Bus1	x
Configuration Package Register	
- PS2-	
Bus Name: Busi CLK AO 💌 DATA A1 💌	
Bus Property	
CLK Width Max: 50 VS Data Direction	
Bus Color	
Start Data Parity STOP ACK	
OK Cancel Default Help	



STEP 9. Following pictures show that the completion of the Bus decoding and package list. The conditions are set as A1 Falling edge, Memory depth is 1M, Sampling frequency is 50MHz.



Package List

a zeroplus lap-3	21000 U-A (S,	/∎:000000-0000)	- [321000_PS2_V1.00	_961016. als]			
🂭 <u>F</u> ile B <u>u</u> s/Signa	l T <u>r</u> igger H	Run/ <u>S</u> top <u>D</u> ata <u>T</u> oo	ols <u>W</u> indow <u>H</u> elp				_ 8 ×
🗋 🖻 🖉	📖 🔀 💱	off	▶ ▶ □ →₩ 1M	💌 🐺 🔤 🚾 50M	Hz 💌 🔤 🦂	- 50% 💌 Pa	ge 1
🚯 🕟 🗟 🗷	📰 🥵	k 🙀 🖑 🛍 🛙	🗑 🖌 羔 11.488us		Тк 🕂 🕅 14	কা 🐻 📴 🏘	Height
Trigger Delay	20ns Pack	kage List 18	•				
Scale:11.488us	Di sp.	lay Pos:1.343ms	A Pos:-010.479ms	✓ A = T = 10).479ms 🖛 🕠	A - B = 600ns 💌	
Total:2.628s	Trig	ger Pos:Ons	B Pos:-010.478ms	→ B - T = 10).478ms ▼ (Compr=Rate:125.307	,
Bus/Signal	Trigger	Enable 1.1	13ms 1.17ms 1.228ms	1.285ms 1.343ms 1.	.4ms 1.458ms 1.5	515ms 1.572ms 1.6	3ms 1.
Busi (PS/2	•	⊗ • OXF	C S	бтор	START DAT	YA : 0X00	
🖌 CLK		◎					
JATA		\otimes					
🥖 A2 A2		⊗					
🖌 A4 A4		⊗ _					
		ने मना					
× Setting Flas	sh Export	Synch Parameter					
Package #	Name Bus1(PS/2	TimeStamp 1 422.04us	DATA PARITY STO	P			
Package #	Name		DATA PARITY STO				
2	Bus1(PS/2) 1.393ms	0X00 PARITY STO	P			
Package #	Name	TimeStamp	DATA PARITY STO	P			
3	Bus1(PS/2) 8.713ms	0X38 PARITY STO	민			
Package #	Name	TimeStamp	DATA PARITY STO				
	Bust(PS/2	J 9.696ms	UXFB PARITY STO				-
Package List					En	id! DEMO	