

Instrument Business Department

<u>PM</u>Specification

Version: V1.0



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1 Software Installation

Please install the software as the following steps:

*Remarks: 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** option, and then press **Next**.

1	🖥 Special Bus SSI Module - InstallShield Wizard	×
	License Agreement Please read the following license agreement carefully.	1
		-
	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	~
K	I accept the terms in the license agreement	
	\bigcirc I <u>do</u> not accept the terms in the license agreement	
Ir	nstallShield	
	< Back Next > Cancel	
		_



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

🙀 Special Bus SSI Module - InstallShield	Vizard	
Customer Information Please enter your information.		
User Name: Allsa		
Organization: Ailsa	_	
Install this application for:		
● Anyone who uses this computer (all users) ● Only for <u>m</u> e (番茄花园)		
InstallShield	Next >	Iancel

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



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



STEP 8. Click Finish to complete the installation.





2 User Interface

In the configuration dialog box, please refer to the below images to select options of setting **PM MODULE**.

PM Configuration Dialog Box

SPECIAL BUS	PI SETUP:B	us1					×	
Configuration Pin Assignme CLK: AO	Package Regi nt	ster		DAT :	A1	•		
Decoding Settings Decoding PEC Decoding PEC, automatically identify to BLOCK for MFR_SPECIFIC command to judge Byte_Count								
Bus Color START		ADDRESS			WRITE			
READ		COMMAND			BYTE_COUNT			
DATA		PEC			STOP			
ACK/NACK								
		OK		Cancel	Defaul	.t Hel	p	

Pin Assignment : Set the corresponding signal lines, the default for CLK is A0, the default for DAT is A1.

Decoding Settings : Set the special decoding mode , for example , When setting decoding PEC, automatically identify to BLOCK for MFR_SPECIFIC command to judge Byte_Count.

Bus Color : User can set and vary the items of the color according to his or her own requirements.



PM Package Dialog Box



In the package dialog box, User can choose displaying items and set bus color and package length according to his or her own requirements.

PM Register Dialog Box



There is written Zeroplus company information details. 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 PM Parameters Configuration, select Special Bus, and then select **ZEROPLUS LA PM MODULE V1.00.** Next click **Parameters Configuration** to open **Parameters Configuration** dialog box.

Bus Property
General Bus Setting
C GENERAL BUS Color Config
Special Bus Setting
SPECIAL BUS Parameters Config
 ZEROPLUS LA DMX512 MODULE V1.00(Internal V0.4) ZEROPLUS LA FLEXRAY MODULE V1.00 ZEROPLUS LA CCIR656 MODULE V1.00 ZEROPLUS LA CAN 2.0B MODULE V1.05 ZEROPLUS LA NEC PD6122 MODULE V1.00 ZEROPLUS LA MCU_51 DECODE MODULE V1.00 ZEROPLUS LA MII MODULE V1.00(InternalV1.0) ZEROPLUS LA Digital Logic MODULE V1.00 ZEROPLUS LA PM MODULE V1.00
Use the DsDp
Other More Module: http://www.zeroplus.com.tw
OK Cancel Help



SPECIAL BUS PM SETUP:Bus1	×						
Configuration Package Register							
The PM bus decoding function is optional purchased item. Welcome to purchase its serial key to activate this function for your necessary. Enter serial key:							
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							
Regis	ter Cancel Default Help						



STEP 5. Open the configuration dialog box , select the corresponding PM signal lines in the part of Pin Assignment .

SPECIAL BUS PE SETUP:	dus l						
Configuration Package Reg	ister						
CLK: A0 💌	DA	T: A1 💌	I				
Decoding Settings							
Decoding PEC Decoding PEC, automatically identify to BLOCK for MFR_SPECIFIC command to judge Byte_Count							
Bus Color							
START	ADDRESS	WRITE	····				
READ	COMMAND	BYTE_COUNT	•••				
DATA	PEC	STOP					
ACK/NACK							
	OK Ca	ncel Default	Help				

STEP 6. The setup of Decoding PEC .

SPECIAL BUS PM SETUP:Bus	:1				×			
Configuration Package Register Pin Assignment								
CLK: AO 💌		DAT :	A1	•				
Decoding Settings								
✓ Decoding FE. <u>Decoding FE</u> , automatical for MFR_SPECIFIC comman	Decoding FEL Decoding TEC, automatically identify to BLOCK for MFR_SPECIFIC command to judge Byte_Count							
-Bus Color								
START A	DDRESS		WRITE	••••				
READ C	OMMAND		BYTE_COUNT					
DATA PI	EC		STOP					
ACK/NACK								
[OK	Cancel	Defaul	t Help				



STEP 7. When setting decoding PEC, automatically identify to BLOCK for MFR_SPECIFIC command to judge Byte_Count.

SPECIAL BUS PM SETUP:B	us1				×			
Configuration Package Regi Pin Assignment CLK: AO	ster	DAT :	A1	<u> </u>				
Decoding Settings								
Eus Color	cally identify to aand to judge Byte	BLUCK						
START	ADDRESS		WRITE					
READ	COMMAND		BYTE_COUNT					
DATA	PEC		STOP					
ACK/NACK								
	OK	Cancel	Defaul	t Help				

STEP 8. The setup of Bus Color .

SPECIAL BUS PH SETUP:	dus l							
Configuration Package Reg Pin Assignment CLK: AO 💌	ister DAT:	A1 💌						
Decoding Settings Decoding PEC Decoding PEC, automatically identify to BLOCK for MFR_SPECIFIC command to judge Byte_Count								
Bus Color								
START	ADDRESS	WRITE						
READ	COMMAND	BYTE_COUNT ····						
DATA	PEC	STOP						
ACK/NACK								
	OK Cane	el Default Help						



STEP 9. Following pictures show the completion of the Bus decoding and package list . The conditions are set as either edge ,Memory depth is 128K, Sampling frequency is 50MHZ The compression mode is activated.

Bus Decodin	g
-------------	---

😂 ZEROPLUS LAP-	-32128U-,	A (S/N:00	0000-0000) - [PI. als]					
🕌 <u>F</u> ile B <u>u</u> s/Signal	T <u>r</u> igger	Run/ <u>S</u> top	<u>D</u> ata <u>T</u> ools <u>W</u> indow	<u>H</u> elp					_ 8 ×
🗋 🚅 🗟 🗯	ų 🕰 👾	$\phi \stackrel{\text{\tiny PP}}{=} \phi \stackrel{\text{\tiny PP}}{$		₩ 128K -	👌 ң 50МН	z 🛉 🏧 🦂	50% 🔻 📣 Page	I 🔻 Count 1	-
1		R 🔛 🖑) 🛄 🔜 - 💒	1.985us	Bar Bar Bar	In Bar 👪 14 🔿	🛛 🐻 🐸 🍖 Heig	ht 60 - Trig	ger Delay 10ns
Scale: 1.985us		Displ	Lay Pos:1.448ms	A Pos:5	55.95us 🔻	A - T	= 55.95us 💌	A - B = 9.872	ns 🔻
Total:329.611ms		Trigg	ger Pos:Ons	B Posts	55.96us 🔻	B - T	= 55.96us -	Compr-Rate:25	1.473
Bus/Signal	Trigger	Enable	1.408ms	1.418ms 1	.428ms 1.4	38ms 1.448ms	1.458ms 1.468	3ms 1.478ms :	L.488ms 1.49
Bust (PM)			Δ٦	DBECC	• 0X(NS WRT			• 0XC
				JUICEOO	• OAC				• UAC
40.40	N								
AD AL	~								
<i></i>	N72								
KI KI		NOX							
								_	
🥖 A2 A2									

Package List

😂 ZEROPLUS LAP-32128U-A(S/N:00000-0000) - [PIL als]													
🚛 <u>F</u> ile B <u>u</u> s/Signal	T <u>r</u> igger	Run/ <u>S</u> top <u>D</u> ata	<u>T</u> ools <u>W</u> in	ndow <u>H</u> elp									_ 8 ×
🗋 😂 🖥 🎒	ų 🔀 🖗	🐢 🕂 📲	00	■ <mark>M</mark> 4	128K 🔻	∰ лл	50MHz	• nn	∞ ∛ 50%	💌 📣 Page	9 1	▼ Count 1	-
1	III 🥵	k 🔛 🖑 🛍	× .	1.985u	IS 🔻 🕌	U - 2 Bar		🖌 🕂 🖁	🖥 le 🌖 🛛	🖥 📴 🍓 H	leight 6	0 🔻 Trig	ger Delay 10m
Scale: 1.985us		Display P	os:1.448ms		A Pos:5	55. 95us	-		A - T = 55.	95us 🔻	,	A = B = 9.872n	s 🔻
Total:329.611ms		Trigger P	os:Ons		B Pos:5	55.96us	•		B - T = 55.	96us 🔻		Compr-Rate:251	. 473
Bus/Signal	Trigger	Enable	1.408r	ns 1.4	18ms 1	.428ms	1.438	ims 1	448ms 1.	458ms 1	.468ms	1.478ms 1	.488ms 1.49
Bus1 (PM)	Ŧ	⊗ -	1	ADDR	ESS	:	0X0	3	WRITE	A	CK	DATA	: OXC
🍎 🗚 AC	×												
🖌 🖌 Al		∞											
/ A2 A2		8											
43 A3		8											
🖌 🗚 A4	\boxtimes	\otimes											~
<	<		4										>
× Setting Flash	Export	Synch Parar	neter										
Package #	Name	TimeStamp	START A	DDRESS	READ A	CK <mark>CO</mark>	MMAND	ACK E	BYTE_COUN	T ACK D	ATA ACK	DATA ACK	PEC
7 B	lus1(PM)	5.382ms	START	0X06	READ A	СК	0X30	ACK	0X02	ACK 0>	(11 ACK	0X22 ACK	0×B3
ACK S	TART_R		RITE ACK			BYTE		ACK [DATA ACK			ACK PEC A	
START F	ADDBES	SWBITE A				ACK	PEC NA			ACL NO.			
START_R 0X08 WRITE ACK 0X7A ACK 0X66 ACK 0XB7 NACK STOP													
Package #	Name	TimeStamp	START A	DDRESS	WRITE	ACK C	OMMANI	ACK	COMMAND	ACK DATA	ACK D	ATA ACK PI	EC NACK
8 B	lus1(PM)	7.988ms	START	0X09	WRITE	ACK	0XFF	ACK	OXFE	ACK 0X77	ACK 02	KAF ACK 0X	
Ready					[E 2000	英 🤳 ; 📰 🛉 🌽