

Instrument Business Department

7-SEGMENT Specification

Edition: V1.0



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1 Software Installation:

Please as the following steps to install the software.

* Remark: The installed steps for all Buses are the same. You can complete installation by following procedures. Below images are examples to install SSI bus.

STEP 1. 7-SEGMENT Bus Module setup.



STEP 2. Click Install.





STEP 3. Click "Next".



STEP 4. Click "I accept the terms in the license agreement" and press "Next".

🙀 Special Bus SSI Nodule - InstallShield Nizard	×
License Agreement Please read the following license agreement carefully.	
LICENSE ACDEEMENT	
LICENSE AGREEMENT	3
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	
downloadable software electronic file and service known as " ZEROPI US	-
I accept the terms in the license acceptent	-
O I do not accept the terms in the license agreement	
InstallShield	_
< <u>B</u> ack <u>N</u> ext > Cancel	



STEP 5. Fill in user Information, and then click "Next".

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

STEP 6. Select "Complete" option, and then click "Next".

🖶 Special Bus	SSI Bodule - InstallShield Tizard	1
Setup Type Choose the set	up type that best suits your needs.	
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 installation.



STEP 8. Click "Finish" to complete the Installation.





2 User Interface

Please refer to the below image to select options of setting 7-SEGMENT.

7-SEGMENT Configuration dialog box for Bus1



7-SEGMENT MODULE channels selection:

COM: User can click the arrow next to the segment title and choose the appropriate channel, the default is A7.

A: User can click the arrow next to the segment title and choose the appropriate channel, the default is A0.

B: User can click the arrow next to the segment title and choose the appropriate channel, the default is A1.

C: User can click the arrow next to the segment title and choose the appropriate channel, the default is A2.

D: User can click the arrow next to the segment title and choose the appropriate channel, the default is A3.

 $E\colon$ User can click the arrow next to the segment title and choose the appropriate channel, the default is A4.

 $F\colon$ User can click the arrow next to the segment title and choose the appropriate channel, the default is A5.

G: User can click the arrow next to the segment title and choose the appropriate channel, the default is A6.

DP: User can click the arrow next to the segment title and choose the appropriate channel, the default is B0.



Apparatus Options:

The Common Anode LED and Common Cathode LED can be chosen, the default is the Common Anode LED.

Bus Color setup:

User can vary the Bus color. Red color indicates that the error occur.

7-SEGMENT Package dialog box.

SPECIAL BUS	7-SEGMENT SETUP:Bus1	×
Configuration	Package Register	
Item	Color	
V DATA		
🔽 Descr	ibe	
	OK Cancel Default Help	

In the package dialog, the colors of Data and Describe..



7-SEGMENT Register dialog box

SPECIAL BUS 7-SEGMENT SETUP:Bus1	
Configuration Package Register	
Use (-SEGMENI for free!	
If you have questions about operating software y instructions below.Our technical support team w questions you have.	please follow the appropriate ill be happy to answer any
>> By phone: Tel:886-2-60	6202225
>> Applications through EMail: service_20z	eroplus. com. tw
>> Website: http://www.	zeroplus, com, tw
Copyright(C) 1997-2007 ZEROPLUS TECHNOLOGY CO;L	TD
OK Cano	cel Default Help

There is Zeroplus company information written. If users have question about software Operations, user can contact Zeroplus by Telephone or Email.



3 Operating Instructions

STEP 1. At first, Group the unanalyzed channels into bus 1.



STEP 2. Select **Bus1**, then press the **Right Key** on mouse to list menu, next click the **Bus Property** to open Bus Property Dialog Box





STEP 3. For Special Bus Parameter Configuration, select Special Bus, then choose **ZEROPLUS LA 7-SEGMENT V1.00 (Internal V0.1)**. Next click "Parameter Configuration" to open the configure dialogue.

Bus Property	
General Bus Setting	Color Config
Special Bus Setting	Parameters Config
C ZEROPLUS LA SD MODULE V1.00(I) C ZEROPLUS LA LIN MODULE V1.00() C ZEROPLUS LA LCD MODULE V1.00()	nernal 0.1) (nternal V0.1) Internal V1.0)
ZEROPLUS LA 7-SEGMENT MODULE ZEROPLUS LA LPC MODULE V1.00(ZEROPLUS LA S/PDIF MODULE V1.0 ZEROPLUS LA Manchester MODULE ZEROPLUS LA Miller MODULE V1.0 ZEROPLUS LA 1-Wire MODULE V1.0	E V1.00(Inernal 0.1) Inernal 0.1) 00(Internal V0.0) E V1.00(Inernal V0.1) 0(Inernal V1.0) 03 00
Use the DsDp Other More Module: http://www.zerop	lus.com.tw
OK _	Cancel Help

STEP 4. Resister user information: At Register sheet, user can see that **"7-SEGMENT** for free" in the dialog box.

SPECIAL BUS 7-SEGMENT SETUP:B	usl 🔀
Configuration Package Register	
Use (-SEGMENI for free!	
If you have questions about operati	ng software please follow the appropriate
instructions below.Our technical su questions you have.	upport team will be happy to answer any
>> By phone:	Tel:886-2-66202225
>> Applications through EMail:	service_2@zeroplus.com.tw
>> Website:	http://www.zeroplus.com.tw
Copyright(C) 1997-2007 ZEROPLUS TEC	HNOLOGY CO;LTD
	Canad Default Hala
UK	Cancel Default Help



STEP 5. After pressing "OK" on Register Dialog, it turns to **Bus Property** dialogue box. Click "**Parameter Configuration**" to set up the parameter of special bus.

Bus Property
General Bus Setting
C GENERAL BUS Color Config
- Special Bus Setting
SPECIAL BUS Parameters Config
 ZEROPLUS LA SD MODULE V1.00(Inernal 0.1) ZEROPLUS LA LIN MODULE V1.00(Internal V0.1) ZEROPLUS LA LCD MODULE V1.00(Internal V1.0) ZEROPLUS LA 7-SEGMENT MODULE V1.00(Inernal 0.1) ZEROPLUS LA S/PDIF MODULE V1.00(Inernal 0.1) ZEROPLUS LA S/PDIF MODULE V1.00(Internal V0.0) ZEROPLUS LA Manchester MODULE V1.00(Inernal V0.1) ZEROPLUS LA Miller MODULE V1.00(Inernal V1.0) ZEROPLUS LA 1-Wire MODULE V1.03
Use the DsDp
Other More Module: http://www.zeroplus.com.tw
OK Cancel Help

STEP 6. Firstly, Setting up **7-SEGMENT** channels in the Configuration dialog box.

SP	SPECIAL BUS 7-SEGMENT SETUP:Bus1											
ſ	Configuration Package Register											
	7-SEGMENT											
	e	UM:	Δ7	•	A:	AO	•		B:	A1		
(C:	:	A2	•	D:	A3	•		E:	A4	•)
	F		A5	•	G:	A6	•	◄	DP:	B0		
	Appa	aratus Se	lect									
		🖲 Com	imon And	ode LED		C Com	non Ca	(thode)	LED			
	Bus	Color —										
	0			1		2				3		
	4			5		6				7		
	8			9		letter				_		
					OK		Cancel		Defa	ault	Help	



STEP 7. Apparatus Selection , the default is Common Anode LED.

SPEC	SPECIAL BUS 7-SEGMENT SETUP:Busl									
Configuration Package Register										
	7-SEGMEN	Τ								
	COM:	Δ7	-	A:	AO	•	B:	A1	•	
	C:	A2	•	D:	A3	•	E:	A4	•	
	F:	A5	•	G:	A6	• •	DP:	B0	•	
	Apparatus S	elect —								
<	Cor	nmon An	ode LED		C Comm	ion Cathode	LED	•		
	Bus Color –									
	0		1		2			3		
	4		5		- 6			7		
	·		-		1.4			· -		
8 9										
	OK Cancel Default Help									

STEP 8. Following picture shows that the completion of the Bus decoding and packet listThe conditions are set as that A0 is the falling edge, Memory depth is 1M, Sampling frequency is 10MHz and the compression is activated.

Dus decouil	ig										
🚳 ZEROPLUS LAP-	-32128U-	∆(S/N: 00	0000-0000) - [TSEG_初始信号	共阳.als]						
🕌 <u>F</u> ile B <u>u</u> s/Signal	T <u>r</u> igger	Run/ <u>S</u> top	Date Tools Mindow	Help						-	∃×
🗋 🖻 🖉 🗐	🗓 🗷 🎬	¢ Ψ [™] Ψ	II 🛐 🕨 🚺 🗉	₩ 128K -	🐻 🕶 10MHz	: 🔽 🚾 🤞 5	0% 💌 📣 Pa	ge 1	▼ Count 1	•	
۵ 🚯 📾		5 8 4		97.96us 🔹	Bar Bar Bar B	ar Bar 👪 le 🌖	🐻 💾 🄶	Height 20	õ 🔻 Trigg	er Delay	100n
Scale:97.96us		Displ	lay Pos:5.433ms	A Pos	:41.021ms 🔻	A - T :	= 41.021ms 💌		A - B = 1.718s	-	
Total:3.354s		Trig	ger Pos:Ons	B Pos	:-001.677s 🔻	B - T :	= 1.677s 🔻		Compr-Rate:255.	869	
Bus/Signal	Trigger	Enable	3.474ms	3.964ms	4.454ms 4.94	3ms 5.433ms	5.923ms	6.413ms	6.903ms 7.	392ms	7. 🛃 ^
		\otimes		UNKNOW	0	UNKNOW	1	UNKNOW	2		UNKR
Con 1		\otimes									
AO AC	N	\otimes									
🖌 🚺 A1	•	- 10									
🖌 A2 A2		\otimes									
12 10		\otimes									Ξ
🖌 🗚 🗛		\otimes									
🥖 🖌 🕹	X	\otimes									-
🖌 🖌 🖌		\otimes									
AT AT		\otimes									-



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Packet list

➡ ZEROPLUS LAP-32128U-A(S/N:000000-0000) - [7SEG_初始信号共附.als]														- 🗆 🗙
🎩 File Bus/Signal Trigger Run/Stop Data Tools Window Help 🗕 🗗 🛪														
□ 😹 🗐 🥮 🐺 👯 💱 🕂 📲 📓 ▷ ▶ ▶ 🔲 👫 128K - 🖗 🗤 10MHz - 🚾 👫 50% - ♣ Page 1 - Count 1 -														
		æ 📰 🥵	N 🕅 🖉) 🛅 💹 🗸 ,	📕 97.96u	is 🔽 🕅		2 Tx +2 👬	 ♦ ♦]	🐻 💾 🔖	Height	26 💌	Trigger Del	ay 100n
Scale:97.96us			Displ	ay Pos:5.433ms		A Pos:41.021ms ▼			A - T = 41.021ms ▼			A - B = 1.718s ▼		
lota1:3.354s			Trigg	ger Fos:Uns		B Pos:-	001.677s 🔻		B - T = 1.	.677s 🕶		Compr-Kat	e:255.869	
Bu	s/Signal	Trigger	Enable	3.474	ms 3.9	64ms 4	.454ms 4	.943ms 5.	433ms	5.923ms	6.413ms	6.903ms	7.392ms	7. 🔂 🏫
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	🖌 AO	AC N	\otimes											
	A1	A1 📉 🔻	× 🛛											
	🥖 A2	A2 🛛	\otimes											
	A3	A3	\otimes											
	🧹 🥖 A4	A4 🛛	\otimes											
	🥖 A5	A5	\otimes											
	🥖 🎸 A6	AE X	\otimes											
	/ A7	Ai 🔣	\otimes											
	🥖 B1 B2		\otimes											
	🧭 B2 B3		\otimes											
	- 🥖 B3 B1		\otimes											~
<				<										>
× ·	Setting	Flash Expor	t											
	Packet #	acket # Name		TimeStamp	DATA									_
	1 Bus1(7-SEGMENT		GMENT)	4.104ms	0									
	Packet # Nam		e	TimeStamp	DATA									
	2 Bus1(7-SE		GMENT)	5.471ms	1									
	Packet # Nam		e	TimeStamp	DATA									
	3 Bus1(7-SEGN		GMENT)	6.839ms	2									•
Ready End!												DEM	0	