

Instrument Business Department

<u>IIS</u> Specification

Edition: 1.1



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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, to follow the steps are ok, the below procedures are to install the SSI Bus for example, other Buses can take it for reference .

STEP 1. SSI Bus Module Setup .



STEP 2. Click Install.





STEP 3. Click Next.

🙀 Special Bus SSI 🛛 odul	e - InstallShield Tizard 🔀
	Welcome to the InstallShield Wizard for Special Bus SSI Module
	The InstallShield(R) Wizard will install Special Bus SSI Module on your computer. To continue, click Next.
	WARNING: This program is protected by copyright law and international treaties.
	< Back Next > Cancel

STEP 4. Clicking "I accept the terms in the license agreement" and pressing Next.





STEP 5. Filling the relative information in the below dialog box ,and to click Next.

🔂 Special Bus SSI Nodule - InstallShield Nizard	×
Customer Information	
Please enter your information.	
User Name:	
Maikle	
Organization:	
logic	
12	
Install this application for:	
Anyone who uses this computer (all users)	
Only for <u>m</u> e (Maikle)	
InstallShield	
Rack Nav	t > Cancel

STEP 6.At first, select Complete option, then to Click Next.

🙀 Special Bus	SSI Bodule - InstallShield Tizard	<
Setup Type Choose the set	tup 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 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.	
InstallShield	_

STEP 8. Click **Finish** to exit the wizard.

🔂 Special Bus SSI Nodule - InstallShield Nizard 🛛 🗙			
Installs	Shield Wizard Completed		
The Insta SSI Modu	allShield Wizard has successfully installed Special Bus le. Click Finish to exit the wizard.		
	< <u>B</u> ack Einish Cancel		



2. User Interface

Please refer to the below image about the **IIS BUS** setup.

IIS Configuration dialog box for Bus 1

SPECIAL BUS IIS SETUP:Bus1	×
Configuration Package Register	
_IIS	
Bus Name: Bus1	LRCK AO
SCLK A1	SD A2
-Bus Property	
Format I2S 💌	Data Bit 16 💌
-Bus Color	
Left Data	Right Data
ОК	Cancel Default Help

IIS has three signal lines :

LRCK: the default is A0. SCLK: the default is A1.

SD: the default is A2.

Format Choice: There are three deferent formats, to choose the format will change the
data coding' s start position, the basic format is I2S . the general format is flush
right format , the seldom format is flush left format , so the default is I2S.
Data Bit: the default has four kinds:16, 20, 24, 32BIT. According to the start
position , the default is 16BIT.
Bus Color:
Left Data: the default is blue
Right Data: the default is green



IIS Package dialog box

SPECIAL BUS IIS	SETUP: Bus1	×
Configuration Pack	age Register	
Item	Color	
🔽 Left Data		
🔽 Right Data		
	OK Cancel Default Help	

IIS Register dialog box

SPECIAL BU	S IIS SETUP:Bus1	×
Configuratio	on Package Register	
	Congratulation IIS decoding function has been activated!	
If you ha instructi	ave questions about operating software please follow the appropriate ons below.Our technical support team will be happy to answer any	
questions	; you have.	
>> By pho	one Tel:886-2-66202225	
>> Applic	ations through EMail service_2@zeroplus.com.tw	
>> Websit	e: http://www.zeroplus.com.tw	
Copyright(C) 1997-2007 ZEROPLUS TECHNOLOGY CO;LTD		
	OK Cancel Default Help	
>> By pho >> Applic >> Websit Copyright	Ine Int.886-2-66202225 sations through EMail service_2@zeroplus.com.tw .e: http://www.zeroplus.com.tw .(C) 1997-2007 ZEROPLUS TECHNOLOGY CO;LTD OK Cancel Default Help	

In the register part, our company provides the detail information, if you have any questions please call by phone or see about the website.



3 Operating Specification

STEP 1. To choose the channel name and click **Right** key ,then to choose **Group into Bus**.



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





STEP 3. Special Bus setting , toclick Special Bus and choose **ZEROPLUS LA IIS MODULE V1.01**, then to click **Parameters Configuration**.



STEP 4. Click Register and enter serial key, and to press Register .

SPECIAL BUS IIS SETUP:Bus1			
Configuration Package Register			
The IIS bus decoding function is optional purchased item. Welcome to			
Enter serial key:			
If you ordered software or have questions abou	t ordering software		
please follow the appropriate instructions below.Our sales team will respond to your enquiry as soon as possible.			
>> By phone Tel:886-2-0	66202225		
>> Applications through EMail service_2@	zeroplus, com, tw		
>> Website: http://www.zeroplus.com.tw			
Copyright(C) 1997-2007 ZEROPLUS TECHNOLOGY CO;LTD			
Register Car	cel Default Help		



STEP 5. After completing Register, it turns to **Bus Property** dialogue box, then press **Parameter Configuration** to set up the parameter of Specia Bus .



STEP 6. Firstly ,IIS Bus LRCK, SCLK, SD setup.

SPECIAL BUS IIS SETUP:Bus1	×
Configuration Package Register	
Bus Name: Busi	LRCK AU
SCLK A1	SD A2
Bus Property	
Format I2S 💌	Data Bit 16 💌
Bus Color Left Data	Right Data
	Cancel Default Melp



STEP 7. Secondly ,In the Bus Property ,to choose Bus Format and Data Bit Setup.

SPECIAL BUS IIS SETUP:Bus1	
Configuration Package Register	
_IIS	
Bus Name: Busi	LRCK AD
SCLK A1	SD A2
Bus Property	
Format I2S 💌	Data Bit 16
	,
-Bus Color	
Left Data	Right Data
OK	Cancel Default Help

STEP 8. Bus Color setup.

SPECIAL BUS IIS SETUP:Bus1	\mathbf{X}
Configuration Package Register	
IIS	
Bus Name: Bus1	LRCK AO
SCLK A1	SD A2
Bus Property	
Format I2S 💌	Data Bit 16
,	
-Bus Color-	
Left Data	Right Data
OK	Cancel Default Help



STEP 9. The below is the Bus coding finished picture, and to set up: the A1 is the rising edge trigger, the RAM size is 512K, Sampling frequency is 200MHz.

lap-	321000 0 -	▲(S/N:0	00000-0000)	- [125 10	ő.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 Hel								_ 8 ×
🗋 😂 🗏 🎒 🏾	iļ 🔍 🖗	ŶT ŸT Ÿ	" 🔟 🕨 🕷	51 📑 🖬	2k 🔻 🙀	200M	lz 🗾 🗤	4 50%	▼ 🐝 Page	1 🔹	Count 1	•
🟠 🚯 📾 📾 🎒 📐 💱 🤭 🏭 📓 - 🎿 883.689ns - 🏆 🚅 🎎 💱 🐺 🗱 🌬 🖓 🐻 Z6 - Irigger Delay 5ns												
Scale: 786. 42ns		Displ	Lay Pos:7.864us		A Pos:-001	.306ms 🔻		A = T = 1.30)6ms 🔻	A -	B = 150ns 💌	,
Total:2.621ms		Trig	ger Pos:Ons		B Post=001	.306ms 🔻		B = T = 1.30)6ms 🔻	Com	pr=Rate:No	
Bus/Signal	Trigger	Enable	-007.	864us -003.93	32us 0hs	; 3.9 '''''	32us 7.8	64us 11.	.796us 15.	728us 19.	661us 23.	593us 27.5
Busi (IIS)		× -			UNKNOW		DATA-1	. : 0X0002		DATA-R	: 0X0406	
🖌 🖌 AC		\square										
🖌 🖌 A1	Z					UUU	UUU		hhh	ılı	nnn	
🥖 A2 A2												
🖌 🖌 🕹												

The below pictures are packet list and waveform display

