

# Instrument Business Department

USB Module Specification

Version: V1.0



# Content

1	Software Installation	.3
2	Human-machine Interface	.7
3	Operating Instructions	.9



#### **1** Software Installation

Please setup software according to the following steps.

\* The installed steps to setup all buses are in the same, you can complete installation by following procedures. Below images are examples to install SSI buses.

#### **STEP 1.** Install MILLER Bus Module



STEP 2. Click Install







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





# **STEP 5.** Fill in User Information. Then, press **Next**

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

# **STEP 6.** Select **Complete** and then press **Next**

🛃 Special Bus	SSI ∎odule - InstallShield Tizard 🛛 🔀
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 Custom	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.** Press **Install** to start installing

Special Bu	ıs SSI ∎odule	- InstallShield Wizard	×
Ready to Ins	stall the Program	n A	
The wizard is	s ready to begin ins	stallation.	
Click Install t	to begin the installa	ation.	
If you want exit the wiza	to review or chang ard.	e any of your installation settings, click Back. Click Cancel to	
InstallShield —			_
		< <u>B</u> ack <u>Install</u> Cancel	
STEP 8.	Press Finis	h to complete installation	
🙀 Special Bu	ıs SSI ∎odule	- InstallShield Tizard	×
	N	InstallShield Wizard Completed	
		The InstallShield Wizard has successfully installed Special Bus SSI Module. Click Finish to exit the wizard.	
A			
		< Back Finish Cancel	1
			_



## 2 Human-machine Interface

In the configuration, please refer to image below to select options of setting USB

## **USB Setup Dialog Box**

SPECIAL BUS USB SETUP:Bus1	×
Configure Packet Item Register	
_ VSB	
Bus Name: Busi D+ A0 D- A1	
-Bus Property	
C Low 1.0    FULL 1.1	
-Bus Color	
Sync Packet ID Frame CRC5/CRC16 EOP	
OK Cancel Default Help	

**USB Data Channel Select:** USB has two differential data Lines, they are D+ and D-.

Bus Setting: USB can analyze two modes, they are Low-speed 1.5M and Full-speed 12M.

**Bus Color Setup:** The bus color are used to recognize every packet sub-item, furthermore, the error packet displays in Turkey red as the figure above.

**Display Direction of DATA Bit and CRC:** The direction display has been assured, when the module was designed, Data is Unit Backward in byte, and the display result of CRC is the same to the transmission direction



#### **USB Packet Dialog Box**

SPECIAL BUS USB SET	JP : Busl		×
Configure Packet Ite	m Register		
Item	Color		
Sync		🔽 Data	
		-	
✓ Packet ID		CRC5/CRC16	
🔽 Frame		🔽 Describe	····
Address			
🔽 EndPoint			
	OK	Cancel Def:	ault Help
Package color can be	varied by user.		
USB Register Dia	log Box		
SPECIAL BUS USB SET	JP:Bus1		×
Configure   Packet It	em Register		
The USB 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	
	1 70 17		

>> Applications through EMail service\_2@zeroplus.com.tw >> Website: http://www.zeroplus.com.tw Copyright(C) 1997-2007 ZEROPLUS TECHNOLOGY CO;LTD

Register

Company profile is on Register dialogue box. If users have question about operating software, please contact us by Telephone or Email.

Default

Help

Cancel



# **3** Operating Instructions





**STEP 2.** Selected Bus 1, then press **Right Key** on mouse to list menu. Next, click **Bus Property** to open Bus Property Dialog Box





**STEP 3.** For Special Bus Setting, select Special Bus, and then choose ZEROPLUS LA USB V1.02, next click Parameter Configuration to finish Special Bus Setting.

Bus Property	X
General Bus Setting	
C GENERAL BUS	Color Config
Special Bus Setting	Parameters Config
<ul> <li>ZEROPLUS LA LIN MODULE V1.00(1</li> <li>ZEROPLUS LA PS2 MODULE V1.01</li> <li>ZEROPLUS LA S/PDIF MODULE V1.01</li> <li>ZEROPLUS LA SPI MODULE V1.03</li> <li>ZEROPLUS LA SPI-SIGNIA MODULE</li> </ul>	Internal V0.1)
C ZEROPLUS LA UART MODULE V1.02 ZEROPLUS LA USB MODULE V1.02 ZEROPLUS LA Miller MODULE V1.00 ZEROPLUS LA SD MODULE V1.00(I	2 D(Ipernal V1.0) nernal 0.1)
Use the DsDp	
Other More Module: http://www.zerop	lus.com.tw
ОК	Cancel Help

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

SPECIAL BUS USB SETUP:Bus1		×
Configure   Packet Item [Register]		
The USB bus decoding function is opt purchase its serial key to activate Enter serial way:	tional purchased item.Welcome to this function for your necessary.	
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_20zeroplus.com.tw	
>> Website:	http://www.zeroplus.com.tw	
Copyright(C) 1997-2007 ZEROPLUS TE	CHNOLOGY CO;LTD	
Regis	ter Cancel Default Help	



**STEP 5.** After finish Register, it turns to set Parameters Configuration, select ZEROPLUS LA USB V1.02, and than press Parameters Configuration key to set Special Bus Parameters









**STEP 7.** Following picture shows that the completion of bus decoding. The conditions are set as that Memory depth is 2K and Sampling Frequency is 200MHz, using the Compression mode can capture more data.



Following picture shows the package list and waveforms displaying.

