孕龍科技股份有限公司
Zeroplus Technology Co., Ltd.

SPECIFICATION

MODEL: B11002-LAP-GPIB-M

PART NO: _____

VERSION: V1.00

Approver		Check	Design
GM	PM		

Customer Confirm

*Please fax the file to Zeroplus Technology after signing.

2F, NO.123, Jian Ba Rd,
Chung Ho City, Taipei Hsian, R.O.C.

Tel: +886-2-66202225
Fax: +886-2-22234362

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

Content

1 Software Download.....3
2 Software Installation 6
3 User Interface.....10
4 Operating Instructions.....12

Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved.

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw

2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

1 Software Download

Please install the software as the following steps:

Remark: We won't have additional notice for you, when there is any modification of the module specification. If there is some unconformity caused by the module version upgrade, users should take the module software as the standard.

STEP 1. Visit the website of Zeroplus: http://www.zeroplus.com.tw.

STEP 2. Click the **English** in the Instrument Division part on the Homepage.

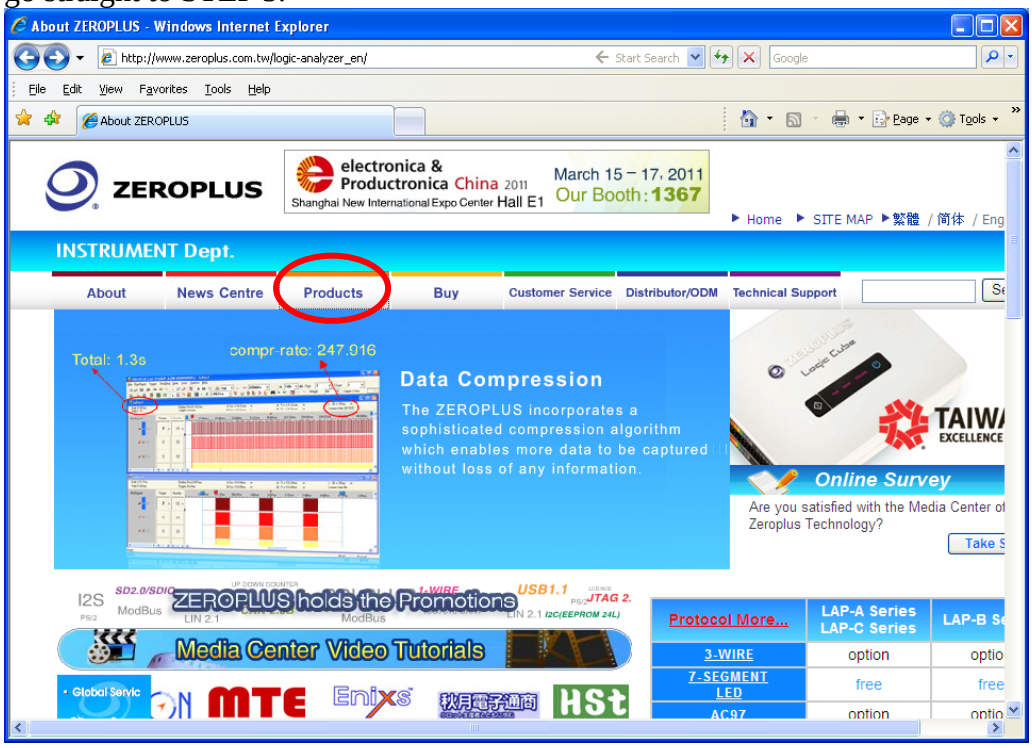
Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved. FM07F1D

Publication Release:

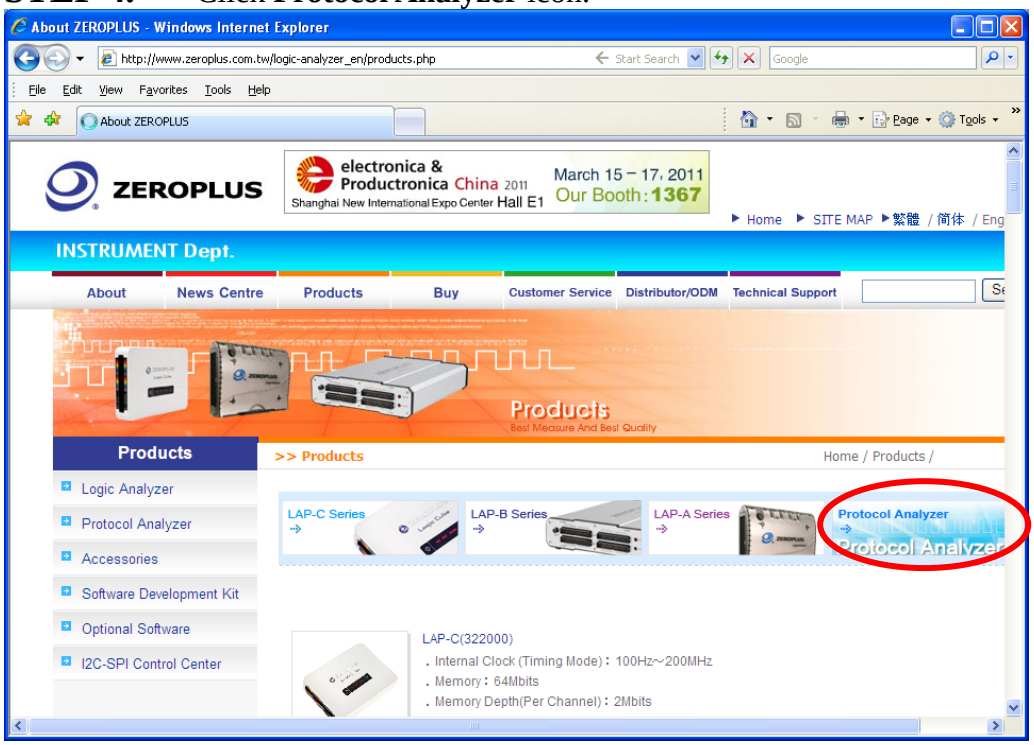
中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw

2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

STEP 3. Click **Products** menu or select **Protocol Analyzer** item from its pull-down menu to go straight to STEP 5.



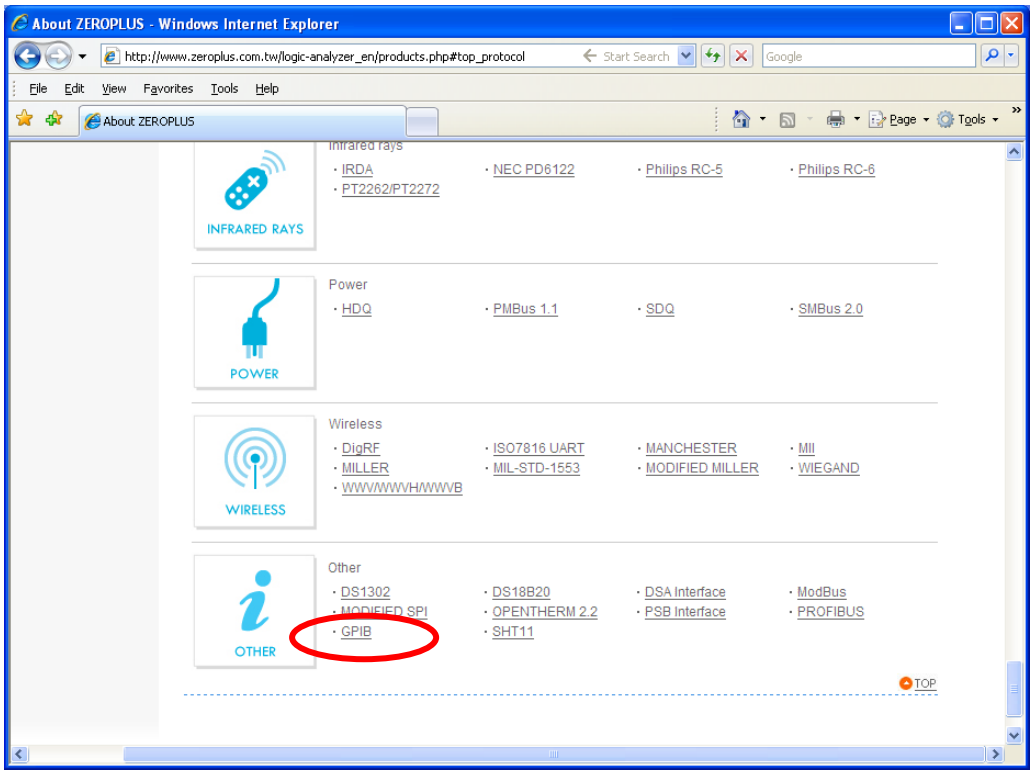
STEP 4. Click **Protocol Analyzer** icon.



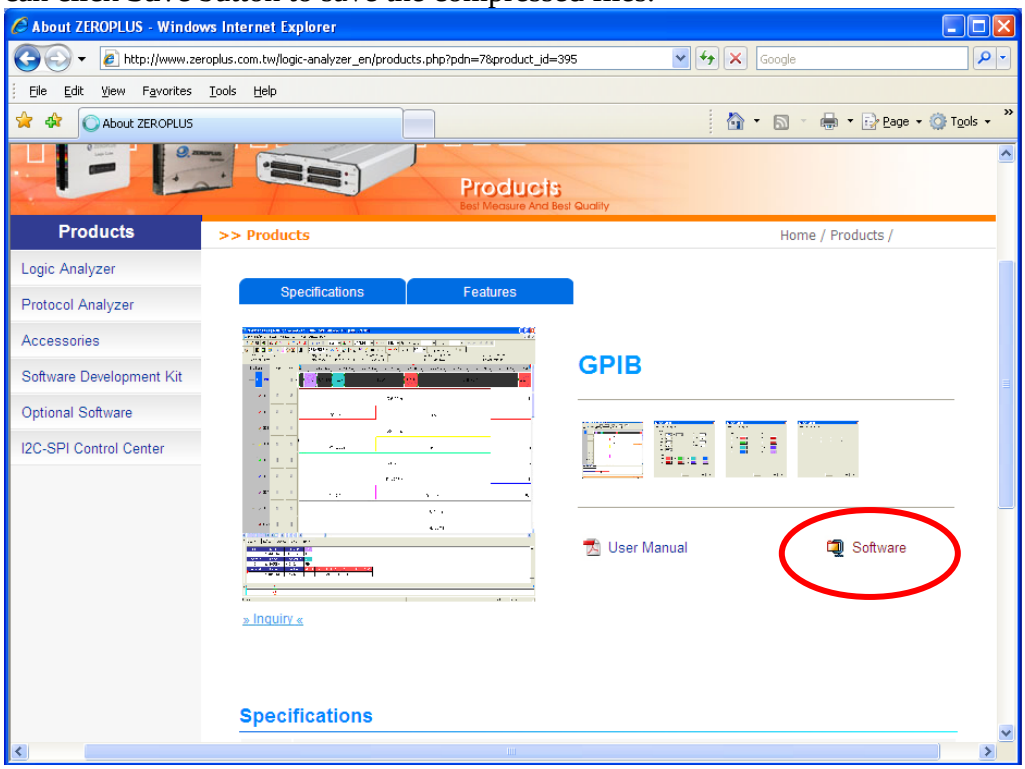
Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved. FM07F1D
Publication Release:

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

STEP 5. Click **GPIB** in the Other.



STEP 6. Click **Software** in the Products page. When the File Download dialog box appears, you can click **Save** button to save the compressed files.

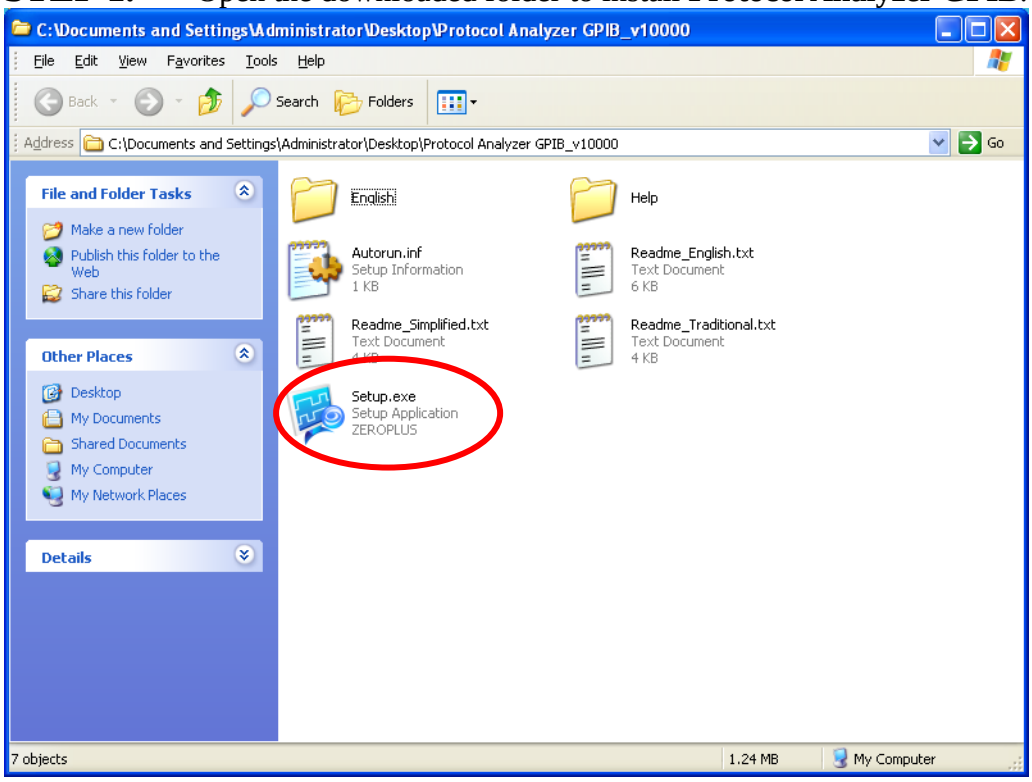


Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved.

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

2 Software Installation

STEP 1. Open the downloaded folder to install **Protocol Analyzer GPIB**.

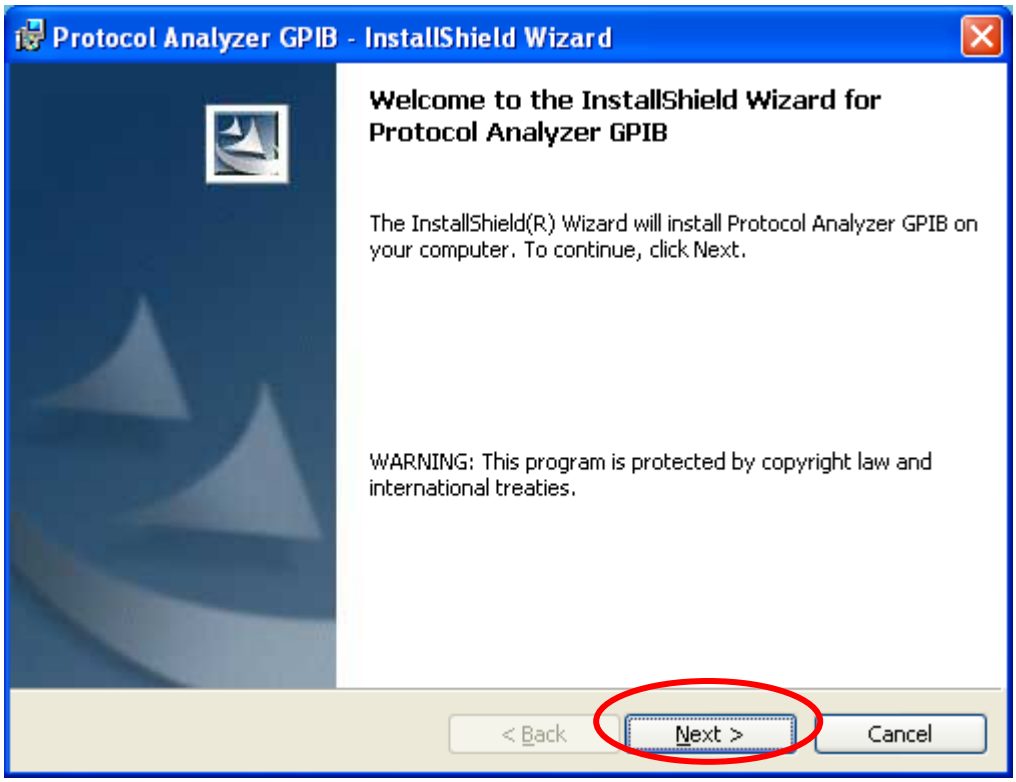


STEP 2. Click **Install**.

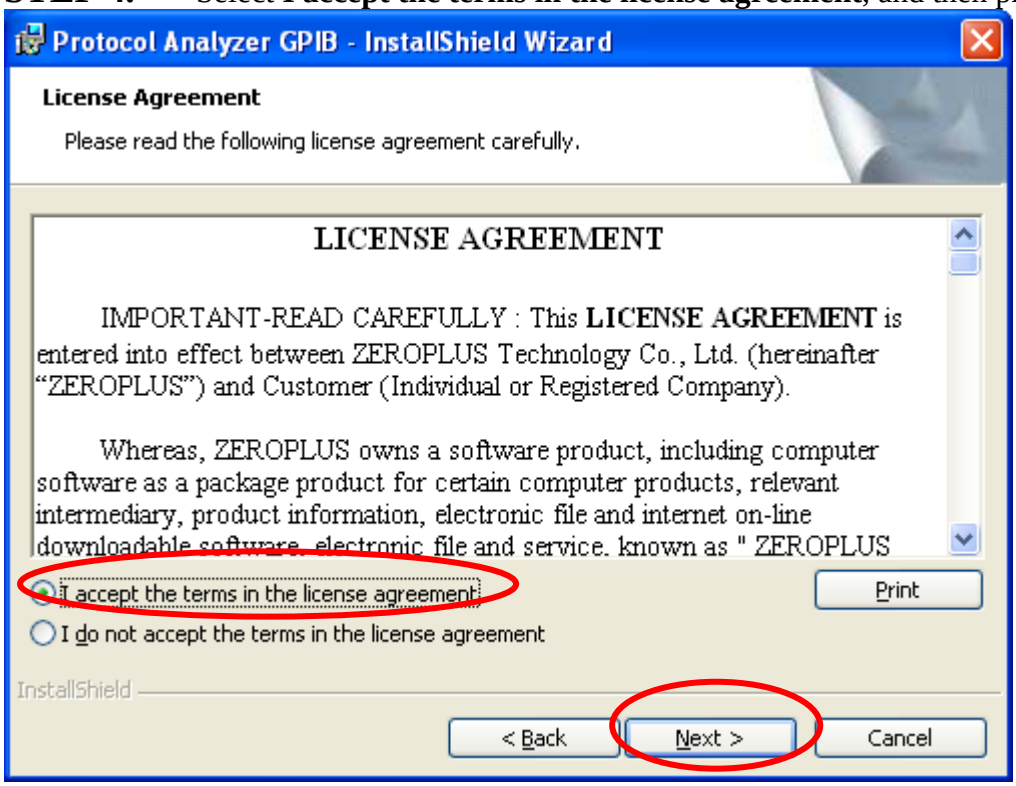
Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved.

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

STEP 3. Click **Next**.



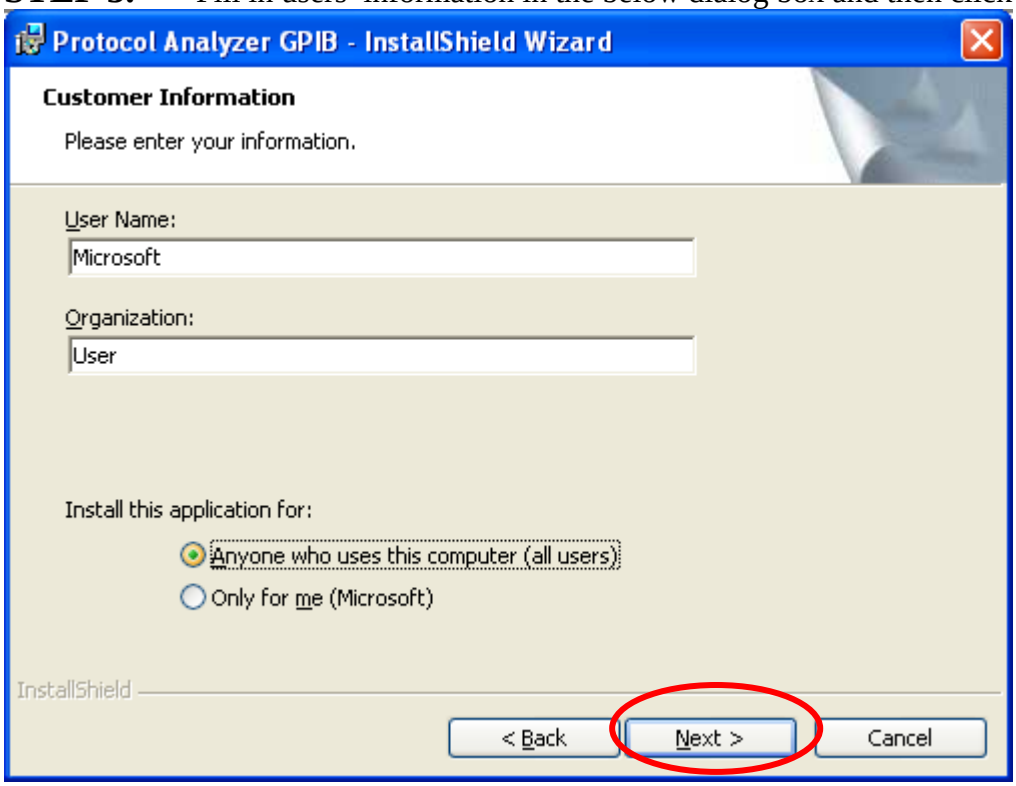
STEP 4. Select **I accept the terms in the license agreement**, and then press **Next**.



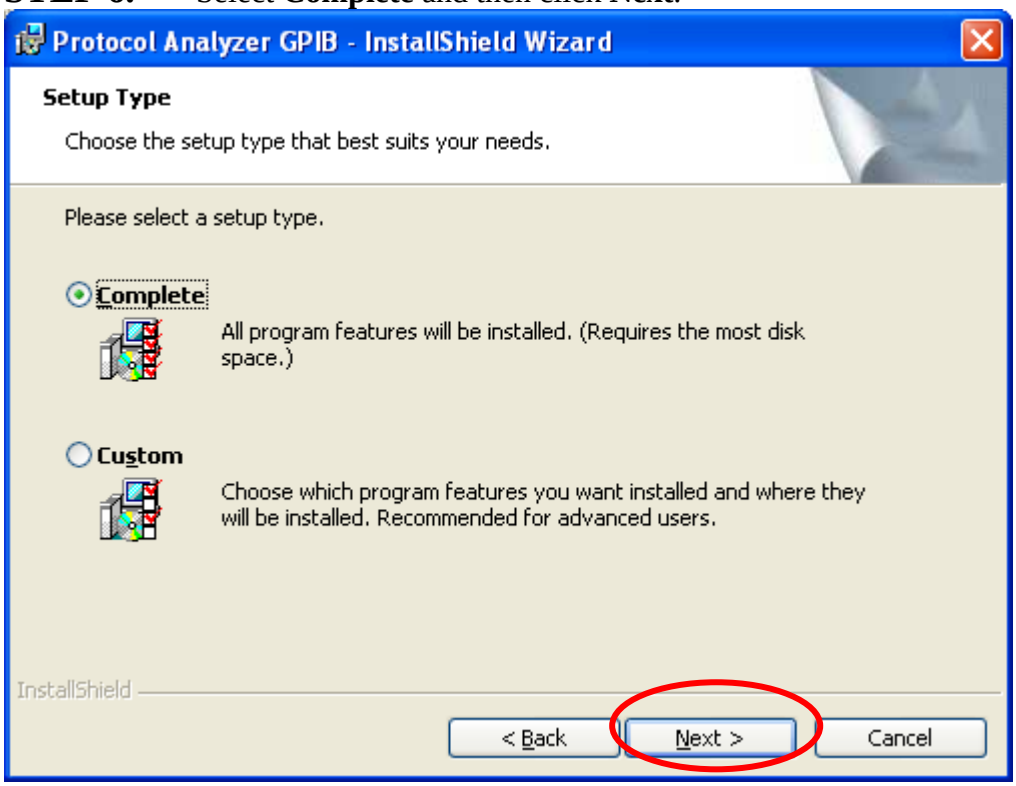
Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved.

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

STEP 5. Fill in users' information in the below dialog box and then click Next.



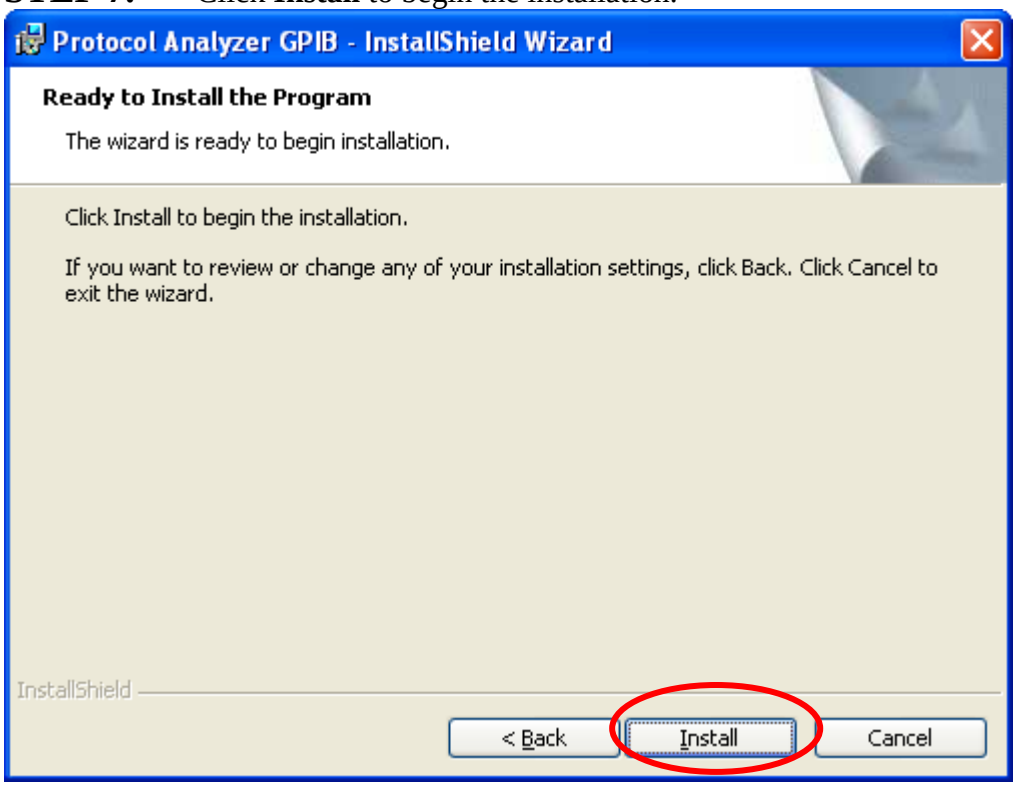
STEP 6. Select **Complete** and then click **Next**.



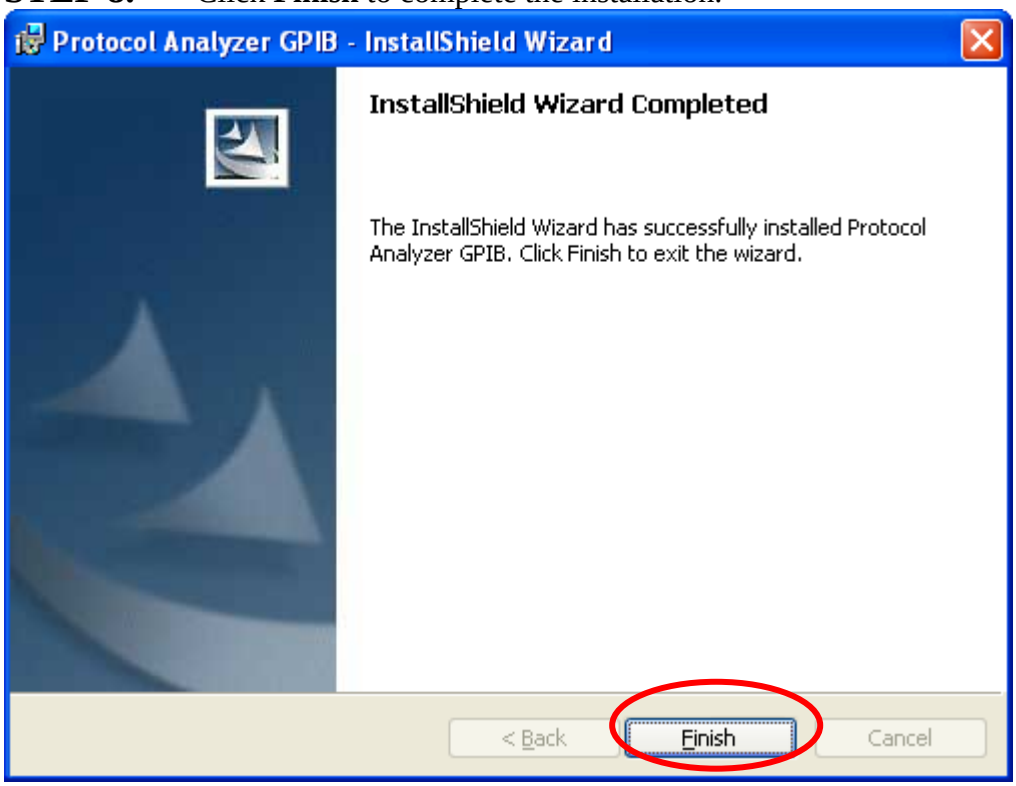
Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved.

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

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



STEP 8. Click **Finish** to complete the installation.



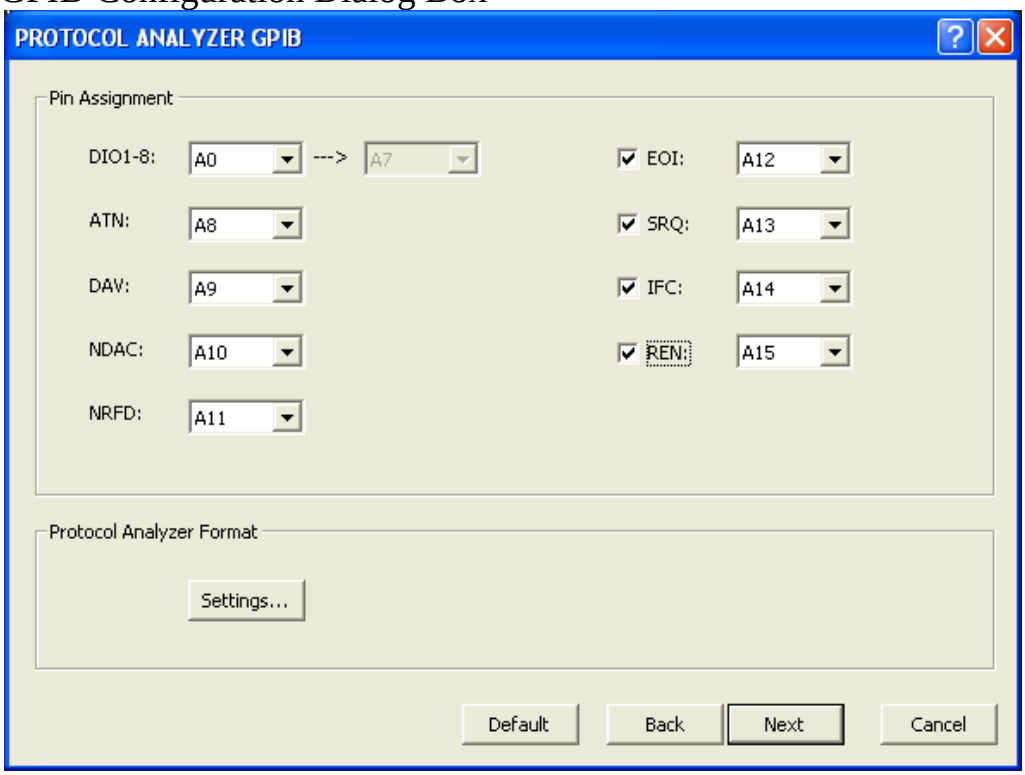
Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved. FM07F1D
Publication Release:

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

3 User Interface

Please refer to the below images to select options of setting **GPIB** Module.

GPIB Configuration Dialog Box



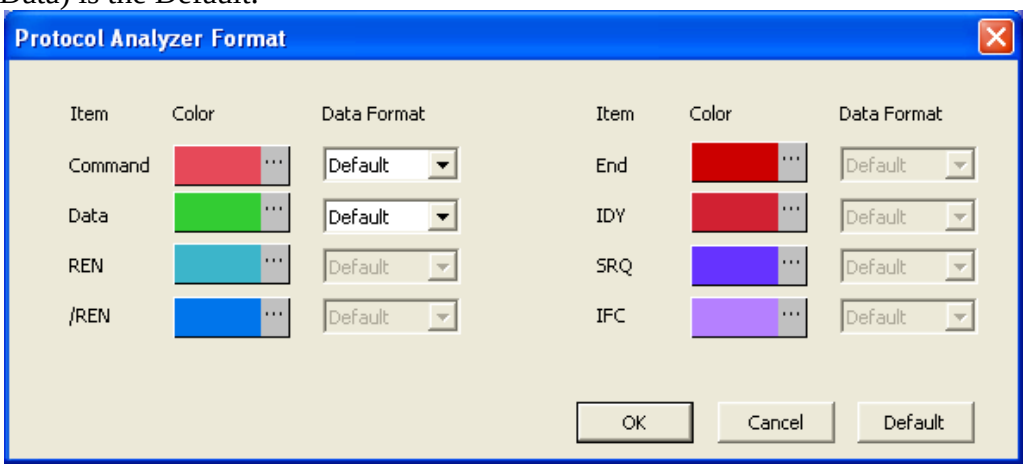
Pin Assignment:
DIO1-8: There are eight Data channels in total.
ATN: It is the Data Command Switch channel.
DAV: It is available for the Low Level.
NDAC: The Data can't be received when it is the Low Level.
NRFD: The Data isn't prepared well when it is the Low Level.
EOI: It is the End Identification channel, and it is disabled by default.
SRQ: It is the Service Request channel, and it is disabled by default.
IFC: It is the Interface Clearance channel, and it is disabled by default.
REN: It is the Remote Control channel, and it is disabled by default.

Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved.

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

Protocol Analyzer Format:

Press the **Settings** button to open the Protocol Analyzer Format dialog box. The Color of each Item can be varied as the users' requirements. The Items (Command and Data) can be set as Binary, Decimal, Hexadecimal, ASCII or Default. And the Data Format of these Items (Command and Data) in the Waveform Display Area and Packet List is controlled by the Protocol Analyzer. The default Data Format is controlled by the main program and the Data Format of these items (Command and Data) is the Default.

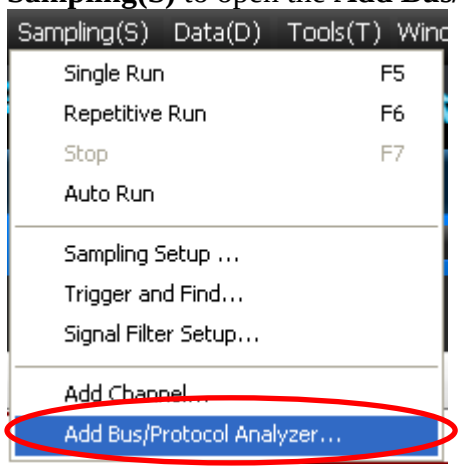


Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved.

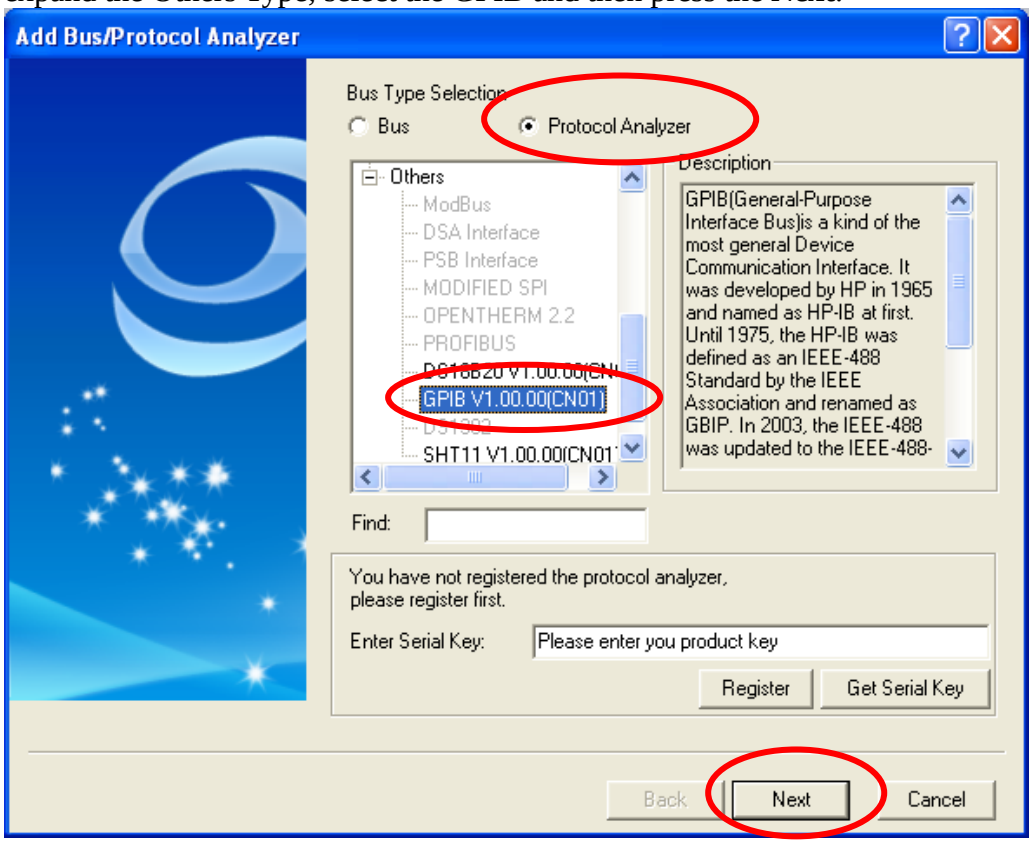
中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

4 Operating Instructions

STEP 1. Select the **Add Bus/Protocol Analyzer** item on the pull-down menu of the **Sampling(S)** to open the **Add Bus/Protocol Analyzer** dialog box.



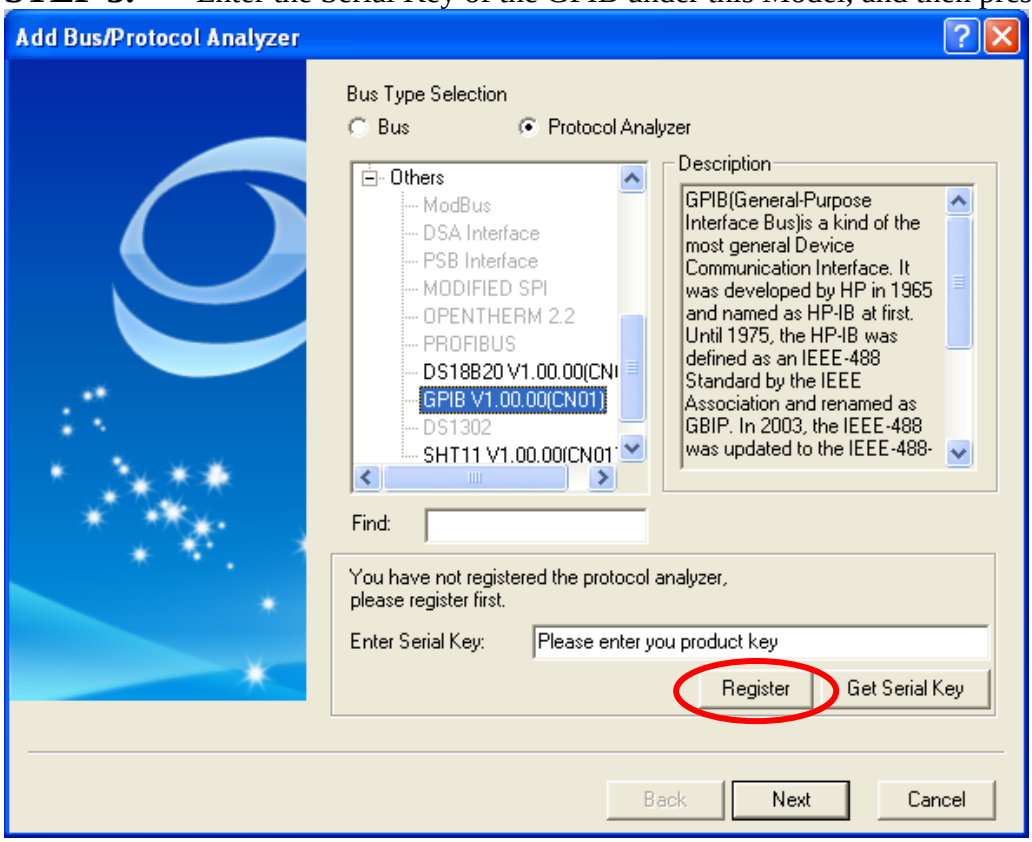
STEP 2. Select the Protocol Analyzer item in the Add Bus/Protocol Analyzer dialog box, expand the Others Type, select the GPIB and then press the **Next**.



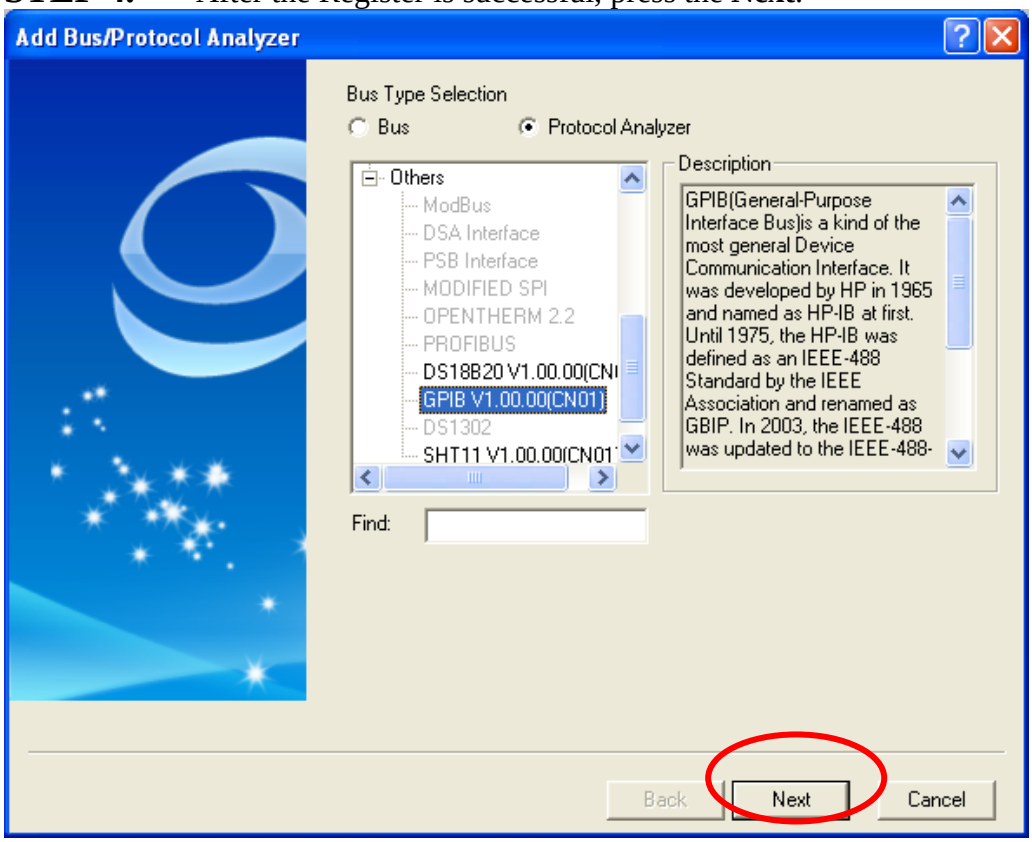
Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved.

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

STEP 3. Enter the Serial Key of the GPIB under this Model, and then press the **Register**.



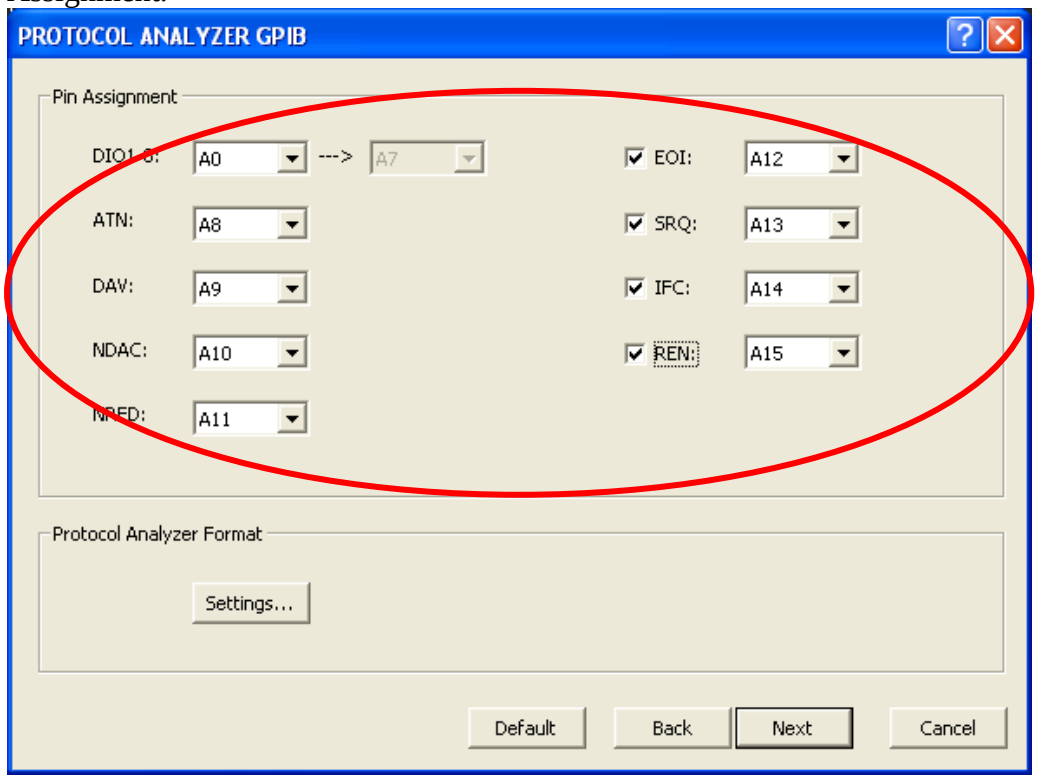
STEP 4. After the Register is successful, press the **Next**.



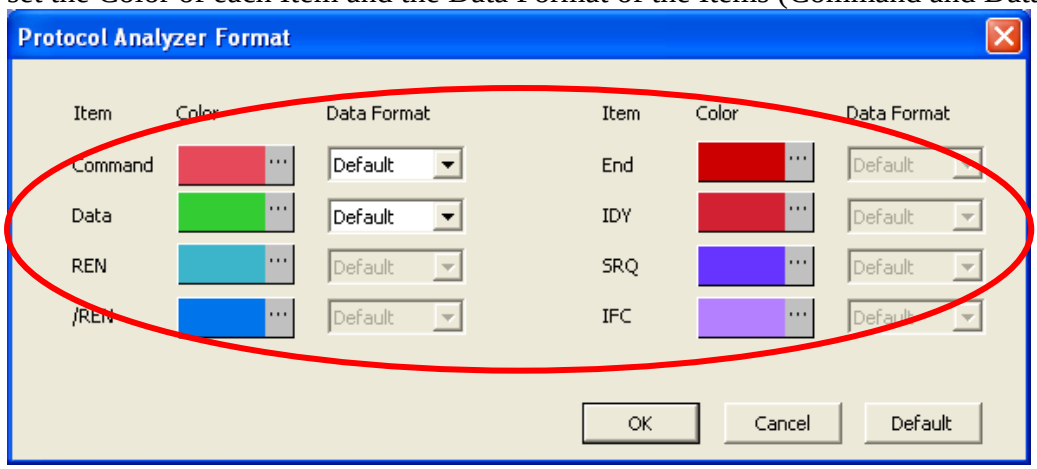
Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved.

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

STEP 5. Open the PROTOCOL ANALYZER GPIB dialog box and set the channels of the Pin Assignment.



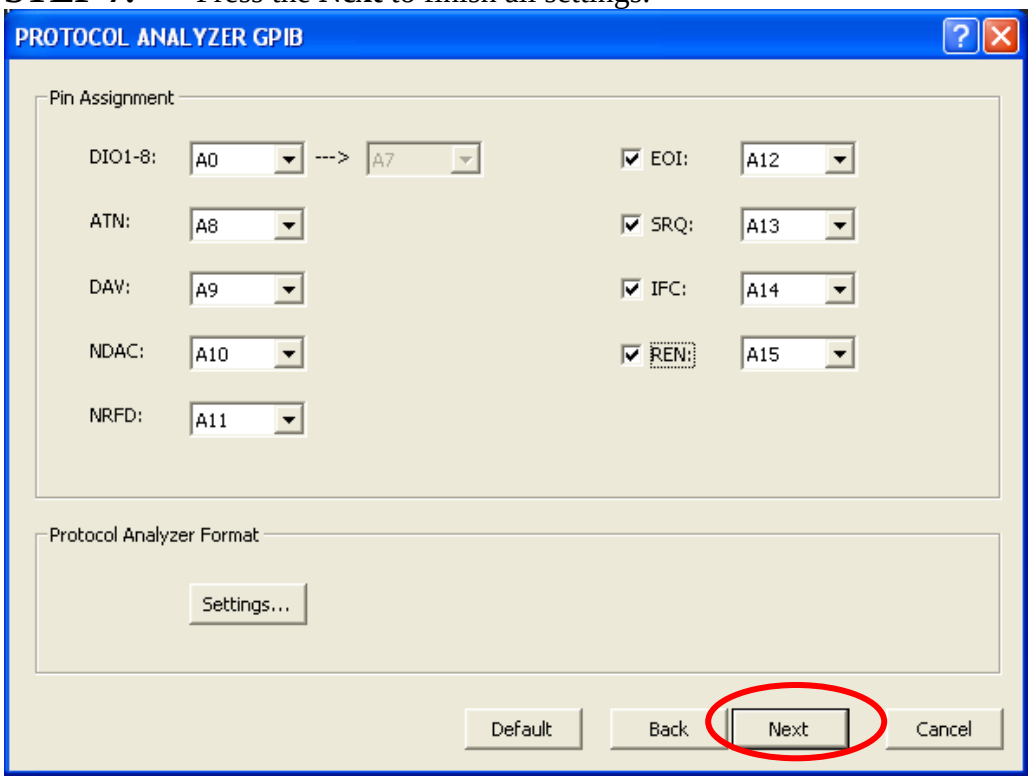
STEP 6. Press the **Settings** button to open the Protocol Analyzer Format dialog box, and then set the Color of each Item and the Data Format of the Items (Command and Data).



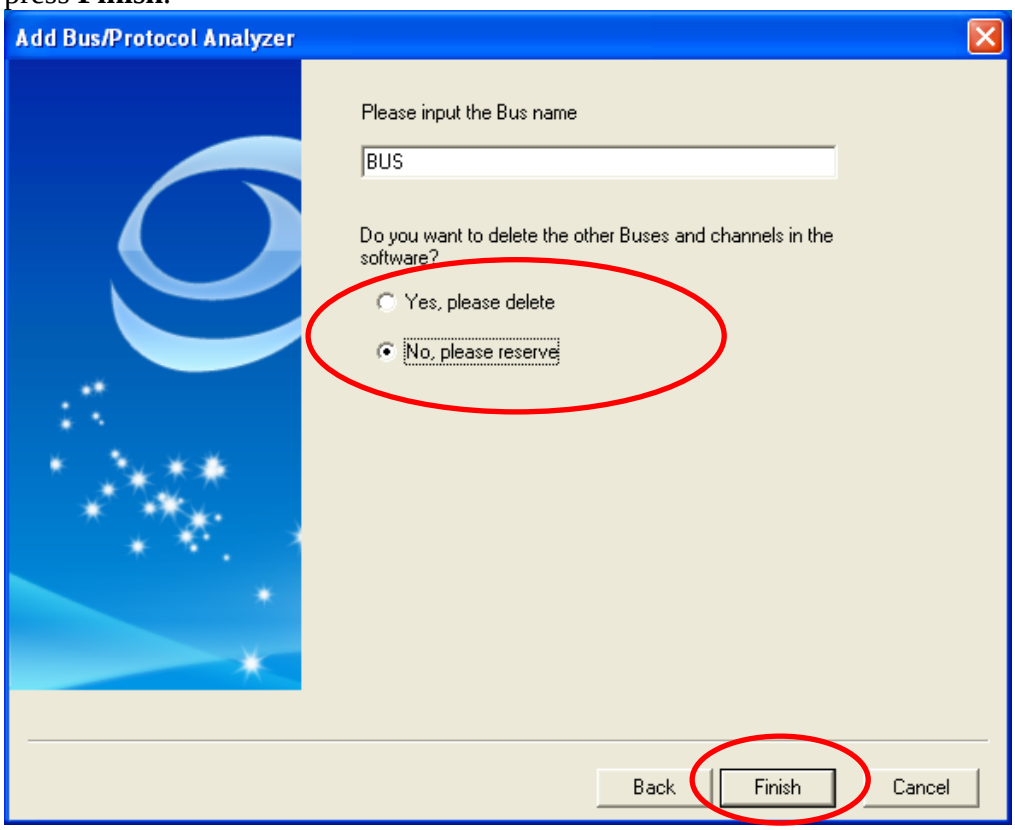
Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved.

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

STEP 7. Press the **Next** to finish all settings.



STEP 8. Please enter the Bus Name, select **Yes, please delete** or **No, please reserve** and then press **Finish**.



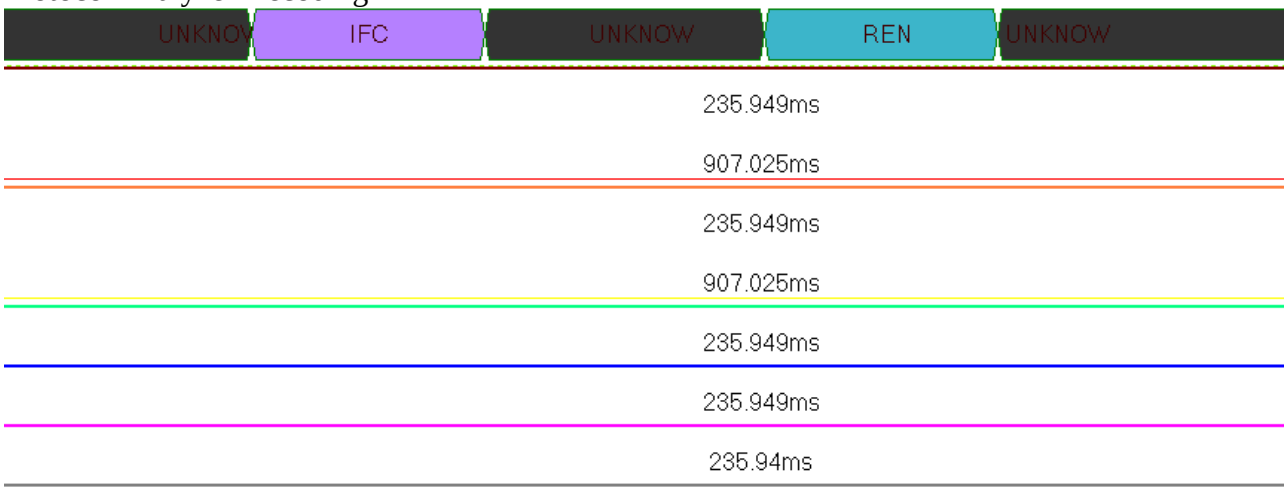
Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved.

中和市建八路 123 號 2F
電話：886-2-66202225
傳真：886-2-22234362
www.zeroplus.com.tw

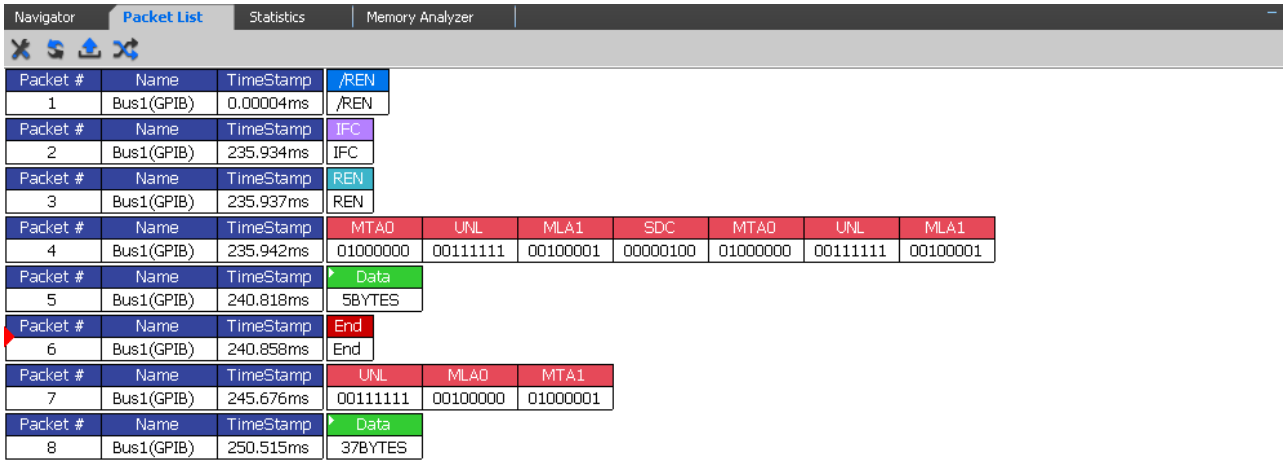
2F., No.123,Jian Ba Rd,
Chung Ho City, Taipei Hsien, R.O.C.
Tel: 886-2-66202225
Fax: 886-2-22234362

STEP 9. Following pictures show the completion of the protocol analyzer decoding and the packet list. The trigger condition is set as Either Edge; the memory depth is 128K; the sampling frequency is 10MHz (the sampling frequency should be more than ten times higher than the signal to be tested).

Protocol Analyzer Decoding



Packet List



Navigator | Packet List | Statistics | Memory Analyzer

Packet #	Name	TimeStamp	/REN						
1	Bus1(GPIB)	0.00004ms	/REN						
Packet #	Name	TimeStamp	IFC						
2	Bus1(GPIB)	235.934ms	IFC						
Packet #	Name	TimeStamp	REN						
3	Bus1(GPIB)	235.937ms	REN						
Packet #	Name	TimeStamp	MTA0	UNL	MLA1	SDC	MTA0	UNL	MLA1
4	Bus1(GPIB)	235.942ms	01000000	00111111	00100001	00000100	01000000	00111111	00100001
Packet #	Name	TimeStamp	Data						
5	Bus1(GPIB)	240.818ms	5BYTES						
Packet #	Name	TimeStamp	End						
6	Bus1(GPIB)	240.858ms	End						
Packet #	Name	TimeStamp	UNL	MLA0	MTA1				
7	Bus1(GPIB)	245.676ms	00111111	00100000	01000001				
Packet #	Name	TimeStamp	Data						
8	Bus1(GPIB)	250.515ms	37BYTES						

Copyright © ZEROPLUS TECHNOLOGY CO., LTD. All rights reserved. FM07F1D
Publication Release: