ActiveX Control

Installation Manual for PCI-Bus Cards

[Version: 1.0]

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1 Installation

The ActiveX Control (OCX) is designed for developing program easily and friendly for PCI-Bus Cards. The user can plug the ActiveX Control (OCX) component and use the properties, methods and events of the object to programming applications very easily. Before using the ActiveX Control (OCX), please firstly install the software package, which will come with product CD-ROM or disks. Please refer to the following content to complete the installation process.

Note that the ActiveX Control (OCX) supports the Windows 95/98 and Windows NT 4.0 or above. It doesn't support the Windows 3.1 or Windows NT 3.51(the format of type-lib doesn't the same between NT 3.51 and NT 4.0).

1.1 Install ActiveX Control (OCX)

- Step 1: Insert the ActiveX Control (OCX) setup disk into floppy or CD-ORM disk drive.
- Step 2: Then click "Start bottom" in the task bar, and click Run.
- Step 3: Enter "A:\Setup" (the path dependence on where the Setup.exe located).

Run	? ×
<u>;</u>	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
<u>O</u> pen:	A:\Setup.exe
	OK Cancel <u>B</u> rowse

Fig 1-1. Enter the setup.exe path.

Step 4: Click OK to starting the install process.

Step 5: A "Welcome" window pops up to prompt user as Fig 1-2 shown.



Fig 1-2. The "Welcome" window.

Step 6: Choose the folder that you want to install the software. The default path is "C:\DAQPro\...", Refer to Fig 1-3.

Choose Destination Location		×
	Setup will install PCIPRX in the following folder. To install to this folder, click Next.	
	To install to a different folder, click Browse and select another folder.	
	You can choose not to install PCIPRX by clicking Cancel to exit Setup.	
	Destination Folder	_
	C:\DAQPro\PCIPRX Browse	
	< <u>B</u> ack <u>Next</u> > Cancel	

Fig 1-3. Select the folder that you want to install the software.

Step 7: After sucessfully installing the software, Please click button "Finish" to restart the system, Refer to Fig 1-4.



Fig 1-4. Click button "Finish" to restart the system.

Step 8: After restarting the system, the PCI Card (OCX) ActiveX software will be installed on the start-up program folder, as shown in Fig 1-5.



Fig 1-5. You can find "PCI Card (OCX) " at sub-section of programs.

Besides, the ActiveX Control (OCX) will create the registry value when installing the software package automatically. On the other hand, the user can also register the ActiveX Control (OCX) manually by using "Regsvr32 PCI Card .OCX".

1.2 Uninstall ActiveX Control (OCX)

You can uninstall PCIPRX OCX ActiveX software by following describing methods:

Method 1:

Step 1: Click "Start" in the task bar and then "program/DAQPro/PCIPRX /unistall PCIPRX" as shown in Fig 1-6.



Fig 1-6. Select settings

Step 2: Click the button "Yes" to remove the software as shown in Fig 1-7.



Fig 1-7. Click the button **"Yes"** to remove the software

Step 3: Click the button "OK" to complete the uninstall process.



Fig 1-8. Click button "OK"

Method 2:

Step 1: Clicking "Start" in the task bar and then "Setting/Control Panel".



Fig 1-9. Select settings

Step 2: Click "Add/Remove Programs" icon as shown in Fig 1-10.



Fig 1-10. Click "Add/Remove Programs"

Step 3: Select the item ActiveX Control (OCX) (for example: PCIPRX), then clicking button "Add/Remove..." to start the uninstall process.

🔚 Add/Remov	ve Programs		
1	Currently installed programs:	Sort by: Name	•
Change or	7000 Utility	Size	4.54MB 🔺
Remove Programs	🖄 Adobe Acrobat 5.0	Size	12.8MB
	🚟 Citect for Windows	Size	158MB
<u>.</u>	T DAQPro PCI1602 W2000	Size	13.3MB
Add New	💋 DAQPro PCIP16R16 W2000	Size	5.22MB
Programs	🚔 DAQPro PCIPRX	Size	<u>2.92MB</u>
8		Used Last Used On	rarely 1/10/2003
Add/Remove Windows	To change this program or remove it from your computer, click Change/Remove.	hange/	Remove
Components	🔂 DASYLab VE 6.99.02	Size	1.81MB
	🔐 HyperSnap-DX 4	Size	5.29MB
	🍘 HyperTrace V.1.4.1	Size	1.56MB
	🔠 InduSoft Web Studio	Size	112MB
	Intellution Dynamics iFIX 2.1	Size	80.7MB
	Java 2 Runtime Environment Standard Edition v1.2.2	Size	19.8MB 👤
			Cl <u>o</u> se

Fig 1-11. Select item "PCIPRX".

Step 4: Click the button "Yes" to remove the software. Refer to Fig 1-12.



Fig 1-12. Click the button "Yes" to remove the software.

Step 5: Click the button "**OK**" to complete the uninstalling process.



Fig 1-14. Click button "OK".

2 Using ActiveX Control (OCX)

2.1 The ActiveX Control applied in Visual Basic 5.0

Step 1: Adding the ActiveX Control (OCX) into the VB toolbox.



Click the "Project/Components" in Visual Basic 5.0 menu.

Fig 2-1-1 Clicking the "Project/Components" in Visual Basic 5.0 menu.

Step 2: Check the item "PCIPRX ActiveX Control" in the Controls dialog box. Then, click "OK" button as shown in Fig 2-1-2.

Components	×
Controls Designers Insertable Objects	
 OptsHold 1.0 Type Library Package and Deployment Wizard PageNavbar DTC 1.0 Type Library PCIPRX ActiveX Control module PIODIOX ActiveX Control module Preview 1.0 Type Library PropertyTree 1.0 Type Library Ref Edit Control RegwizCtrl 1.0 Type Library SCBuddyList ActiveX Control module shappmgr 1.0 Type Library System Monitor Control 	
Selected Items Only	
PCIPRX ActiveX Control module Location: D:\DAQPro\PCIPRX\Driver\PCIPRX.ocx	
OK Cancel Apply	

Fig 2-1-2 Select the item: PCIPRX ActiveX Control.

Step 3: The icon of PCIPRX (PCI Card OCX) will display in the ToolBox, as shown in Fig 2-1-3.





Step 4: Create a new standard project. And then add an PCIPRX (PCI Card OCX) component into this project as shown in Fig 2-1-4.



Fig 2-1-4

2.2 Remove the ActiveX Control from Visual Basic 5.0

Step 1: Remove the component of PCIPRX (PCIPRX OCX) from user's Form.

Step 2: Select and click the menu of "Project\Components...", refer to Fig 2-2-1.

🐂 Project1 - Microsoft Visual Basic [design] - [Form1 (Form)]					
🔁 Eile Edit View Project Format Debug Run Query	/ Diagram Tools Add-Ins Window Help 🛛 📕 🗾				
🛛 🏂 🗸 🐮 🎽 🏠 Add Eorm	· • • • • • • • • • • • • • • • • • • •				
General Add Mo <u>r</u> Ponni General Add Module	Project - Project1 ×				
Add Class Module	Project1 (Project1)				
A labl C Add Property Page	🖏 Form1 (Form1)				
Add WebClass	• • • • • • • • • • • • • • •				
Add Data Favinanaat	Properties - Form1				
■ ■ Add Data Environment ■ ■ More ActiveX Designers ▶	Alphabetic Categorized				
Add File Ctrl+D Denses	(Name) Form1 Appearance 1 - 3D				
	Caption Deturns/cets the text displayed in an				
Components Ctrl+T	object's title bar or below an object's				
Project1 Properties	Form Layout X				

Fig 2-2-1. Select the menu item "Project" and "Components...".

Step 3: Deselect the item "PCIPRX ActiveX Control" and then click the button "OK". Refer to Fig 2-2-2.

Components	×
Controls Designers Insertable Objects	
 msrtedit 1.0 Type Library MSWebDVD 1.0 Type Library National Instruments CW DataSocket 4.0 National Instruments CW UI 6.0 NBA03Patcher 1.0 Type Library NBA03Util 1.0 Type Library oleprn 1.0 Type Library OptsHold 1.0 Type Library Declare and Declargement Wiened 	
PageNavbar DTC 1.0 Type Library PCIPRX ActiveX Control module PIODIOX ActiveX Control module Preview 1.0 Type Library PCIPRX ActiveX Control module Location: D:\DAQPro\PCIPRX\Driver\PCIPRX.ocx	Browse
 ОК	Cancel Apply

Fig 2-2-2. Deselect the item "PCIPRX ActiveX Control".

Finally, users will find that the icon of PCIPRX disappears from the Toolbar of Visual Basic 5.0.

2.3 The ActiveX Control applied in Delphi 5.0

Step 1: Select menu item "Component / Import ActiveX library...".



Fig 2-3-1

Step 2: Select item "PCIPRX ActiveX Control". Refer to Fig 2-3-2.

Step 3: Ensure the Class names "TPCIPRX". Refer to Fig 2-3-2.

Step 4: Ensure the Palette page "ActiveX". Refer to Fig 2-3-2.

Step 5: Click the button "Install..." to go the installing process.

Import ActiveX	×				
Import ActiveX					
	1				
NetManage Winsock Controls (Version 1.0)					
OptsHold 1.0 Type Library (Version 1.0)					
Package and Deployment Wizard (Version 2.0) PageNavbar DTC 1.0 Type Library (Version 1.0)					
PCIPRX ActiveX Control module (Version 1.0)					
<u>A</u> dd <u>H</u> emove					
Class names: TPCIPRX					
<u>v</u>					
Palette page: ActiveX					
Unit dir name: C:\Program Files\Borland\Delphi5\Imports\					
Search path: \$(DELPHI)\Lib;\$(DELPHI)\Bin;\$(DELPHI)\Impor					
Install Create Unit Cancel Help	1				

Fig 2-3-2

Step 6: Click the button "**OK**" to apply the PCIPRX ActiveX Control into Borland User Components.

Install	×
Into existing p	ackage Into new package
<u>F</u> ile name:	c:\program files\borland\delphi5\Lib\dclusr50.dpk 💽 Browse
Description	
<u>D</u> escription.	Bonana Oser Components
	OK Cancel <u>H</u> elp

Fig 2-3-3. Click the button "**OK**" to install ActiveX Control.

Step 7: Click the button "Yes" to build the package. Refer to Fig 2-3-4.

Confirm		\mathbf{X}
?	Package dolusr50.bpl will be rebuilt. Continu	e?
	<u>Yes N</u> o <u>H</u> elp	

Fig 2-3-4. Click the button **"Yes"** to build the package.

Step 8: Click the button "**OK**". Refer to Fig 2-3-5.



Fig 2-3-5. Click the button "OK".

Step 9: Click the menu item "File / Save " to save the package.

Step10:The icon of "PCIPRX" (PCIPRX OCX) has been installed in page "ActiveX". Refer to Fig 2-3-6.

s <u>H</u> elp	(None>	▼ ₽	e de la come de la come La come de la				
idas 🗍 In	iternetExpress [Internet FastNet	Decision Cube	0Report	Dialoos 🛛 Wi	n 3.1 Samole	s ActiveX
7 🔱	PCI PRI						

Fig 2-3-6. The icon of "PCIPRX" in page "ActiveX".

2.4 Remove the ActiveX Control from Delphi 5.0

Step 1: Select the menu item "Component / Install Packages...". Refer to Fig 2-4-1.

<u>C</u> omponent	<u>D</u> atabase	<u>T</u> ools	<u>H</u> elp			
, 🛞 <u>N</u> ew Cor	🚯 <u>N</u> ew Component					
- 🞲 Install Co	🙀 Install Component					
📩 Import Active <u>X</u> Control						
Create Component <u>T</u> emplate						
🗊 Install <u>P</u> ackages						
<u>C</u> onfigu	re Palette					

Fig 2-4-1. Select the menu item "Component / Install Packages...".

Step 2: Select the item "Borland User Components" and then click the button "Edit...". If the user installs the ActiveX Control in the different Components, the user must select the correct Components to uninstall the ActiveX Control. Refer to Fig 2-4-2.

Project Options	×
Packages	
Design packages	
 Borland Sample Components Borland Sample Imported ActiveX Controls Borland Standard Components Borland User Components Borland Web Wizard Package Datability Components 	
C:\program files\borland\delphi5\Projects\Bpl\dclusr50.bpl	
Add <u>R</u> emove <u>E</u> dit <u>C</u> omponents	
Runtime packages	
Build with runtime packages VCL50;VCLX50;VCLSMP50;VCLDB50;VCLAD050;ibevnt5 Add	
Default OK Cancel <u>H</u> elp	



Step 3: Click the button "Yes" to open the packages "dclusr50.dpk". It is according to the packages that you used.



Fig 2-4-3. Click button "Yes" to open the packages.

Step 4: Click the button "Remove". Refer to Fig 2-4-4.

Package - d	lclusr50.dp	k			×
Compile	Add	Emove	() Install	F Options	
Files		Path			
E-Cont F F F Requ	ains °CIPRXLib_T °CIPRXLib_T ires /CL50.dcp	LB c:\progra LB c:\progra	ım files\bor ım files\bor	land\delphi5\Ir land\delphi5\Ir	nports nports

Fig 2-4-4. Click the button **"Remove"**.

Step 5: Select the item "PCIPRXLib_TLB.dcr" and "PCIPRXLib.TLB" from the project manager. And then click the "OK" button".

Remove From Project			×
Unit	Form		
PCIPRXLIB_TLB.der PCIPRXLib_TLB			
VCLOO			
	ОК	Cancel	<u>H</u> elp

ActiveX Control (OCX) Installation Manual Step 6: Click the button "Compile". Refer to Fig 2-4-6.

Package -	dclusr50.d	9 k			×
Compile	Add Add	C Remove	() Install	🗾 Options	
Files		Path			
	tains uires VCL50.dcp				

Fig 2-4-6. Click the button "Compile".

Step 7: The PCIPRX has been removed. Click the button "OK".



Fig 2-4-7. Click the button "**OK**".

Step 8: Click menu item "File / Save" to save the packages.

2.5 The ActiveX Control applied in Borland C++ Builder 3.0

Step 1: Click the menu item "Component / Import ActiveX Control …". Refer to Fig 2-5-1.



Fig 2-5-1

- Step 2: Select the item "PCIPRX ActiveX Control (Version x.x)". Refer to Fig 2-5-2.
- Step 3: Replace the Class names "TPCIPRXProxy" by "TPCIPRX". The user can choose the different Class Name to be used. But, for the demo program working correctly, the user need to set the Class Name as "TPCIPRX". Refer to Fig 2-5-2.

Import ActiveX				×
Import ActiveX				
Package and PageNavbar PCI1202X Ad PCI1602X Ad	Deployment Wizar DTC 1.0 Type Libra stiveX Control modu stiveX Control modu	d (Version 2.0) ary (Version 1.0) le (Version 1.0) le (Version 1.0)	×	
PCIPRX Acti	veX Control module	(Version 1.0)		
IPinnacle-BP:	IMENTS\PCIPBX\	rsion 1.UJ BELEASE\PCIPBX I		
10.447 0000		Add	<u>R</u> emove	
<u>C</u> lass names:	TPCIPRX		×.	
Palette page:	ActiveX	•		
Unit <u>d</u> ir name:	c:\program files\b	orland\cbuilder3\LIE	3\	
<u>S</u> earch path:	\$(BCB)\LIB;\$(BCI	8)\LIB\OBJ;c:\progr	am files\borland	
<u>l</u> r	stall Create	e <u>U</u> nit Cancel	<u>H</u> elp	



Step 4: Select the Palette Page "ActiveX". Refer to Fig 2-5-2.

Step 5: Click the button "Install..." to install the ActiveX component. Refer to Fig 2-5-2. Please remember the path of Unit dir name, which will be used in the user's project options. Refer to Fig 2-5-2.

Step 6: Click the button "OK" to go the installation process. Refer to Fig 2-5-3.

Inst	all				×
Ti	nto existing pa	ckage Into new package			
	<u>F</u> ile name:	C:\Program Files\Borland	//CBuilder3\Lib\DCLU9	6R35.bp 💌 📑	<pre>irowse</pre>
	\underline{D} escription:	User's Components			
ſ	<u>C</u> reate nev	v Project Group	ОК	Cancel	<u>H</u> elp

Fig 2-5-3. Click the button "**OK**" to install the control.

Step 7: Click the button "Yes" to rebuilt the package. Refer to fig 2-5-4.



Fig 2-5-4. Click the button "Yes" to rebuilt the package.

Step 8: The ActiveX Control of PCIPRX has been installed. Click the button "OK" to close this window. Refer to fig 2-5-5.



Fig 2-5-5. The PCIPRX has been installed.

Step 9: Click the menu item "File / Save" to save this package.

Step10:Click the menu item "File / New Application".

Step11:Select the page "ActiveX" of Toolbox, and put the PCIPRX ActiveX Control

on the user's form1. Refer to Fig 2-5-6 and Fig 2-5-7.



Fig 2-5-6. The icon of PCIPRX. (PCIPRX OCX)



Fig 2-5-7. Put the PCIPRX (PCIPRX OCX) on the user's form.

Step 12: Click the menu item "Project / Build Project1" to build this project.

Step 13: The user may get this error message "Unable to open include file PCIPRXLib_TLB.h", refer to Fig 2-5-8. Please follow the Step 14 to fix this problem.

🗎 U	Initl.h	. 🗆 ×
Unit	t1.cpp Unit1.h	
	<pre>#include <classes.hpp></classes.hpp></pre>	
	<pre>#include <controls.hpp></controls.hpp></pre>	
	<pre>#include <stdctrls.hpp></stdctrls.hpp></pre>	
	<pre>#include <forms.hpp></forms.hpp></pre>	
	<pre>#include "PCIPRXLib_TLB.h"</pre>	
	<pre>#include <olectrls.hpp></olectrls.hpp></pre>	
	//	🔻
┛		▶
	9: 1 Modified Insert	

Fig 2-5-8. The user may get the error message: unable to open include file.

- Step 14: Click the menu item "Project / Options...".
- Step 15: Select the page "Directories/Conditionals". Refer to Fig 2-5-9.
- Step 16: Add the string ";\$(BCB)\lib" in the field of Include path. The user may need to find out the correct path, which install the control. Please refer to Step 5 to get the correct path. Refer to Fig 2-5-9 to add the string path.

Step 17: Click the button "OK" to close the window. Refer to Fig 2-5-9.

Project Op	tions					×
Forms Linker	Application Directories/0	Compiler Conditionals	Advance Versio	ed Compiler on Info Pack	C++ ages	Pascal Tasm
Director	ries					
	Include path:	BCB)\inclue	de;\$(BCB)'	\include (vcl <mark>.\$(</mark> B	CB)\lib	
	Library path:	\lib;\$(BCB)\lib\obj;\$	(BCB)\lib		┚…
<u>D</u> ebu	ug source path:	\$(BCB)\sou	irce\vcl		•	┚┈││
Interr	mediate <u>o</u> utput:					J
-Conditio <u>C</u> onc -Aliases	onals litional defines: Unit <u>a</u> liases:		ISEPACKA	AGES	2	
🗖 Defaul	t		ОК	Cancel	<u>H</u> e	lp

Fig 2-5-9. The window "Project Options".

Step 18: Rebuild the project and the error messages will disappear.

2.6 Remove the ActiveX Control from Borland C++ Builder 3.0

Step 1: Click the menu item "Component / Install Component ...".

Refer to Fig 2-6-1.



Fig 2-6-1. Click the menu item "Component / Install Component".

Step 2: Copy the completely string of path and file name, which is on the field of Package file name. The user must use the correct package file, which the user install the ActiveX Control. (For example: the string may be C:\Program Files\Borland\CBuilder3\Lib\DCLUSR35.bpk). Refer to Fig 2-6-2.

Ins	tall Component		×
Ir	nto existing package 📊	nto new package	
	-		,
	<u>U</u> nit file name:	Browse	
	<u>S</u> earch path:	\$(BCB)\LIB;\$(BCB)\LIB\OBJ;e:\program files\borland\cbuilder3\lib	
	Dackago filo namo:	Program Files/Borland/CBuilder3/Lib/DCLUSR35 bpk	
	<u>r</u> ackaye ile hame.		
	Package <u>d</u> escription:	User's Components	
-			
		OK Cancel <u>H</u> elp	

Step 3: Click the button "Cancel" to close this window. Refer to Fig 2-6-2.

Step 4: Click menu item "File / Open Project...".

Step 5: Paste the string of path and file name of package into the field of **File name** and click **"Open"** (For example: DCLUSR35.bpk). Refer to Fig 2-6-3.

Open Project		? ×
Look <u>i</u> n:	CBuilder3 💌 🖻 🖄 📰 🏢	
Bin Doc Examples Help Include Lib ObjRepos	 Projects QuickRpt Source Teechart 	
File <u>n</u> ame:	ram Files\Borland\CBuilder3\Lib\DCLUSR35.bpk	
Files of type:	C++Builder project (*.bpr;*.bpg;*.bpk)	1
	<u>H</u> elp	

Fig 2-6-3. Select the package to open.

Step 6: Delete these items ... (Refer to Fig 2-6-4.) "USEUNIT("PCIPRXLib_TLB.cpp");" and "USERES("PCIPRXLib_TLB.dcr");"

DCLUSR35.cpp
CLUSR35.cpp
//
<pre>#include <vcl.h></vcl.h></pre>
#pragma hdrstop
USERES("DCLUSR35.res");
USEPACKAGE("vc135.bpi");
USEUNIT("PCIPRXLib_TLB.cpp");
USERES("PCIPRXLib_TLB.dcr");
//
#pragma package(smart_init)
7: 30 Insert



Step 7: Click menu item "Project / Build DCLUSR35" to build this package.

Step 8: Click the button "OK" to close this window. Refer to Fig 2-6-5.

Co	mpiling	
	Project:	C:\\Borland\CBuilder3\Lib\DCLUSR35.bpk
	Done:	Build All
	Current line:	0 Total lines: 140053
	Hints:	0 Warnings: 0 Errors: 0
		OK

Fig 2-6-5. The window "Compiling".

Step 9: The ActiveX Control of PCIPRX has been removed. Click the button "**OK**" to close this window. Refer to Fig 2-6-6.



Fig 2-6-6. The ActiveX Control of PCIPRX has been removed.

Step 10: Click the menu item "File / Save " to save this package.