

PCI Software Development Kit (SDK)

PLX's PCI SDK 4.3 is an invaluable tool for PCI software developers. The following table details its extensive software components. The PCI SDK 4.3 CD-ROM also contains complete documentation in PDF form, including the PCI SDK User's Manual, PCI SDK Programmer's Reference Manual.

SDK 4.3 Software Component

SDK 4.3 Software Component	Supported Chips										Supported Rapid Development Kits																	
	PCI 6140RDK	PCI 6152RDK	PCI 6156RDK	PCI 6150RDK	PCI 6350RDK	PCI 6154RDK	PCI 6254RDK	PCI 6540RDK	PCI 6520	PCI 9052	PCI 9030	PCI 9080	PCI 9054	PCI 9056	PCI 9052RDK-LITE	PCI 9030RDK-LITE	CompactPCI 9030RDK-LITE	PCI 9054RDK-LITE	CompactPCI 9054RDK-LITE	PCI 9054RDK-860	CompactPCI 9054RDK-860	PCI 9056RDK-LITE	CompactPCI 9056RDK-LITE	PCI 9656RDK-860	CompactPCI 9656RDK-860			
Windows Applications																												
PLXMon™ Support <i>Interactive Windows-Based GUI</i>	①	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PLXMon Performance Measure	①	**	**	**	**	**	**	**	**	**	✓	✓	✓	✓	✓	✓												
PCI Software Development Support																												
C/C++ API Library Object & Source Files w/Plug-in For Visual Basic Support <i>Create PCI Executables In Both Debug and Final Release Forms</i>	③	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Source code Using PCI API library, Non-transparent mode, etc.	③	✓	✓	✓	✓	✓	✓	✓	✓	✓																		
Source Code Examples Using PCI API Library <i>Direct Slave Transfer, Interrupt Event Handling, Scatter/Gather DMA, and more</i>	③										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Windows 98/ME Support Executables and Source Code	④	✓	✓	✓	✓	✓	✓	✓	✓	✓																		
Windows 98/Me/XP/2000 Driver Executables & Source Code <i>WDM-Compliant</i>	④										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Windows 2000/XP Support Executables and Source Code	④	✓	✓	✓	✓	✓	✓	✓	✓																			
Windows NT Driver Executable and Source Code	④	✓	✓	✓	✓	✓	✓	✓	✓	✓																		
Windows NT Driver Executable & Source Code <i>Windows NT-Compliant</i>	④										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Linux Driver Executable and Source code	④	✓	✓	✓	✓	✓	✓	✓	✓	✓																		
Linux Driver Executable & Source Code <i>Kernel 2.4 Compliant</i>	④										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
VxWorks Driver Executable & Source Code <i>VxWorks v5.4 Compliant</i>	④													✓	✓									✓	✓	✓	✓	
Local Bus Software Development Support																												
C/C++ API Library Object Files & Source Code <i>Create Local Bus Executables</i>	⑥													✓	✓	✓							✓	✓		✓	✓	
Source Code Examples Using Local Bus API Library <i>Direct Master Transfer, Block Mode DMA, & Scatter/Gather DMA, and more</i>	⑥													✓	✓	✓							✓	✓		✓	✓	
Back-End Monitor Executable & Source Code <i>Enables Local Bus Communication With PCI Application via the RDK Serial Port</i>	⑤													✓	✓	✓							✓	✓		✓	✓	
PLX Board Support Package (BSP) Executable & Source Code <i>Generic Local Bus Software Environment</i>	⑦													✓	✓	✓							✓	✓		✓	✓	
VxWorks BSP Executable & Source Code For RDK <i>VxWorks-Compliant Local Bus Software Environment</i>	⑧													✓	✓	✓							✓	✓		✓	✓	

*PLX Performance Measure Tool can be used to estimate performance on the PCI 6000 series in conjunction with the PCI 9056RDK-860 and CompactPCI 9656RDK-860 DMA boards.

The figure below illustrates the PCI SDK architecture: the types of software components included, how these components interface with each other, and how they interface with a system that includes one or more PLX PCI I/O Accelerators.

PCI SDK Block Diagram

