

PLX TECHNOLOGY PCI I/O Accelerators



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Analog ICs

PLX Technology

PLX Technology's PCI 9000 Series offers the most advanced, broadest range of general-purpose, PCI-to-local bus bridges available.

PLX Technology offers two types of I/O Accelerators: **Targets and Masters**. PCI Target I/O Accelerators support Direct Slave operations, allowing PCI bus master devices to access memory and other slave devices on a local bus. These 32-bit, 33MHz products include the PCI 9052 and PCI 9030. The PLX PCI Bus Master I/O Accelerators support Direct Slave operation, plus they add support for Direct Master operation, allowing processor/local bus master devices to access memory and other devices on the PCI bus. In addition, they support DMA, allowing masters on either bus to direct the chip to perform data transfers. The PCI Bus Master I/O accelerators from PLX Technology are ideal for intelligent peripheral devices and embedded hosts. The bus master products are available in 64-bit, 66MHz; 32-bit, 66MHz and 32-bit, 33MHz formats. These include the PCI 9656, PCI 9056 and the PCI 9054.

PCI-LOCALBUS 32-BIT TARGET I/O ACCELERATORS

PCI 9030 SMARTarget™ I/O Accelerator

The PCI 9030 with SMARTarget™ technology provides an array of features that define a new level of performance, flexibility and simplicity in PCI designs. A 32-bit, 33MHz PCI v.2.2-compliant device with burst transfers up to 132Mbytes/sec, the PCI 9030 delivers high performance to new PCI-based adapters and those migrating from legacy designs. The device's 60MHz local bus, 3V/5V operation, and programmable general-purpose I/Os (GPIOs) and chip selects bring unprecedented flexibility to a wide variety of memory and I/O devices. The combination of these features make adapters used in high-bandwidth applications, such as telecommunications and data communications interface cards, easier than ever to design.

9030 Performance Features:

- PCI v2.2 compliant 32-bit 33MHz Target Interface Chip enabling PCI Burst
- Transfers up to 132Mbytes/second.
- Up to 60MHz Local Bus operation enabling burst transfers up to 240Mbytes/second
- PCI Target Read Ahead Mode
- PCI Target Programmable Burst
- PCI Target Delayed Write
- Posted Memory Writes

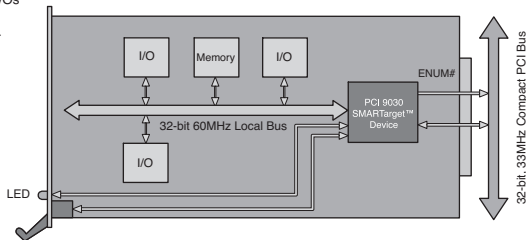
PCI 9052 Target I/O Accelerator for Generic and ISA Local Bus Designs

The PCI 9052 provides low cost connectivity for PCI slave designs. It is specifically targeted at easing the transition of existing ISA designs to the more feature rich and performance oriented PCI bus. The PCI 9052 provides direct slave PCI functions by interfacing the adapter's I/O circuitry (control, address and data lines) to a host computer's microprocessor / memory architecture via the 32-bit PCI bus, which typically runs at 33 MHz.

9052 Performance Features:

- 32-bit, 33MHz PCI v2.1 compliant
- Up to 40MHz local bus operation
- ISA and Generic 32-bit, 40MHz local bus designs
- Glueless ISA interface for low cost adapters
- Supports multiplexed and non-multiplexed 8-, 16-, & 32-bit generic local buses
- 5V CMOS in 160-pin PQFP package
- PCI unlimited bursts transfers at up to 132MB/s
- Direct slave data transfers

Typical Compact PCI Hot Swap Adapter Card



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	PLX Part No.	Description	Price Each		
			1	50	100
PCI 9030					
862-PCI9030-AA60PI-F	PCI9030-AA60PI-F	PCI 3V SMARTarget I/O Accelerator (176 Pin PQFP) (Lead-Free)	32.50	30.50	28.50
862-PCI9030-AA60BI-F	PCI9030-AA60BI-F	PCI 3V SMARTarget I/O Accelerator (180 Pin IBGA) (Lead-Free)	38.92	36.52	34.13
862-PCI9030RDK-LITE	PCI9030RDK-LITE	PCI 9030 Reference Design kit	795.00	-	-
PCI 9052					
862-PCI9052-G	PCI9052-G	PCI 5V I/O Accelerator (160 Pin PQFP) (Lead-Free)	21.88	20.54	19.20
862-PCI9052RDK-LITE	PCI9052RDK-LITE	PCI 9052 Reference Design kit	795.00	-	-

PCI-LOCALBUS 32-BIT MASTER I/O ACCELERATORS

PCI 9054 Bus Master I/O Accelerator Chip

The PCI 9054 is a next generation 32-bit PCI bus mastering interface chip that seamlessly connects to and takes full advantage of Motorola's MPC860 PowerQUICC® and MPC850 microprocessors. The PCI 9054 I/O Accelerator, the industry's first CompactPCI® Hot Swap Friendly PCI interface chip, expands PLX's 32-bit PCI product line for CompactPCI® and PCI-based telecommunications, networking and other high-bandwidth systems.

9054 Performance Features:

- PCI v2.2 compliant 32-bit 33MHz Bus Master Interface Controller enables PCI Burst Transfers up to 132Mbytes/second
- General Purpose Bus Master Interface featuring an advanced Data Pip. Architecture™ which includes two DMA engines, pro-grammable Target and Initiator data transfer modes and PCI messaging functions
- PCI v2.2 Power Management Spec compatible
- PCI v2.2 Vital Product Data (VPD) configuration support

PCI 9056 Master Chip I/O Accelerator Chip

The PCI 9056 Master Chip -- 32-bit, 66MHz PCI I/O accelerator is the most advanced, 32-bit general-purpose bus mastering device available for Motorola MPC850/860 PowerQUICC and generic 32-bit, 66MHz local bus based designs. The PCI 9056 incorporates PLX's industry leading Data Pipe Architecture technology, featuring DMA engines, programmable Direct Master and Direct Slave data transfer modes, and PCI messaging functions.

9056 Performance Features:

- 32-bit, 66MHz PCI v2.2 compliant
- Motorola PowerQUICC and generic 32-bit, 66MHz local bus modes
- 3.3V I/O, 5V tolerant bus interfaces
- PICMG 2.1 r2.0 Hot Swap Silicon
- 256-ball, 17 x 17mm, 1.00mm fine pitch PBGA (FPBGA)
- PCI bus bursts to 264MB/sec
- Local bus bursts to 264MB/sec

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	PLX Part No.	Description	Price Each		
			1	50	100
PCI9054					
862-PCI9054-AC50BI-F	PCI9054-AC50BI-F	PCI to Local Bus Master I/O Accelerator Chip PBGA Package (Lead-Free)	50.10	47.00	43.90
862-PCI9054-AC50PI-F	PCI 9054-AC50PI-F	PCI to Local Bus Master I/O Accelerator Chip PQFP Package (Lead-Free)	48.50	45.50	42.50
862-PCI9054RDK-LITE	PCI9054RDK-LITE	PCI 9054 Rapid Development Kit	795.00	-	-
PCI9056					
862-PCI9056-BA66BI-G	PCI9056-BA66BI-G	66MHz PCI Bus Mastering I/O Accelerator for Motorola PowerQUICC (Lead-Free)	53.30	50.00	46.70
862-PCI9056RDK-LITE	PCI9056RDK-LITE	PCI 9056 Rapid Development Kit	795.00	-	-

PCI 9080 I2O Compatible PCI Bus Master I/O Accelerator Chip

The PCI 9080 Master Chip is the standard in PCI I/O Accelerators. It incorporates all the features of the PCI 9060 Family of PCI products, while adding the options and features needed to keep ahead of the ever changing technology treadmill associated with PCI. In addition to providing the first processor independent I2O compliant messaging unit, the PCI 9080 is one of the first PCI interface chips to operate at both 3.3V and 5V.

862-PCI9080-3-G	PCI9080-3-G	66MHz PCI Bus Mastering I/O Accelerator for PowerQUICC (Lead-Free)	69.30	65.00	60.70
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PCI-LOCALBUS 64-BIT MASTER I/O ACCELERATORS

The PCI 9656 64-bit, 66MHz PCI I/O accelerator is the most advanced, general-purpose bus mastering device available for Motorola MPC850/860 PowerQUICC and generic 32-bit, 66MHz local bus based designs. The PCI 9656 incorporates PLX's industry leading Data Pipe Architecture technology, featuring DMA engines, programmable Direct Master and Direct Slave data transfer modes, and PCI messaging functions.

Features:

- 64-bit, 66MHz PCI v2.2 compliant
- Motorola PowerQUICC and generic 32-bit, 66MHz local bus modes
- 3.3V I/O, 5V tolerant bus interfaces
- PICMG 2.1 r2.0 Hot Swap Silicon
- 272-ball, 27 x 27mm, 1.27mm pitch PBGA
- Zero wait state burst operation PCI bus bursts to 528 MB/sec
- Local bus bursts to 264MB/sec
- 2 DMA Channels Block and Scatter/Gather transfers DMA descriptor ring management Demand Mode and EOT Hardware controls GA
- PCI D3COLD Power Management Event (PME) generation support
- I2O r1.5 messaging unit
- Eight mailbox and two doorbell registers
- PCI arbiter supports 7 external masters
- Host mode reset/interrupt signal configuration

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	PLX Part No.	Description	Price Each		
			1	50	100
862-PCI9656-BA66BI-G	PCI 9656-BA66BI-G	66MHz PCI Bus Mastering I/O Accelerator for PowerQUICC (Lead-Free)	64.50	60.50	56.50
862-PCI9656-BA66BI	PCI 9656-BA66BI	66MHz PCI Bus Mastering I/O Accelerator for PowerQUICC	64.50	60.50	56.50
862-PCI9656RDK-LITE	PCI 9656RDK-LITE	PCI 9656 Rapid Development Kit	795.00	-	-

