

PLX PRODUCT SNAPSHOT

PCI Express® Compliant Switches & Bridges



The World's Largest Provider of PCIe Switch and Bridge Silicon

PCI EXPRESS PLX ExpressLane™ Gen 2 & Gen 1 PCI Express compliant Switches

PCI-SIG® Base Spec.	Part Number	Lanes	Ports	Latency (ns)	Dual Cast	Read Pacing	DBA*	NT*	HPC*	VCs*	SSC*	Power Typ. (W)	Package Size (mm ²)
Gen 2	PEX 8648	48	12	140	Yes	Yes	Yes	Yes	3	1	—	4.0	27 x 27
Gen 2	PEX 8632	32	12	145	Yes	Yes	Yes	Yes	3	1	—	2.8	27 x 27
Gen 2	PEX 8624	24	6	145	Yes	Yes	Yes	Yes	3	1	—	3.0	19 x 19
Gen 2	PEX 8618	16	16	140	Yes	Yes	Yes	Yes	—	2	Yes	1.9	19 x 19
Gen 2	PEX 8616	16	4	150	Yes	Yes	Yes	Yes	2	1	—	2.2	19 x 19
Gen 2	PEX 8614	12	12	140	Yes	Yes	Yes	Yes	—	2	Yes	1.5	19 x 19
Gen 2	PEX 8612	12	3	150	Yes	Yes	Yes	Yes	2	1	—	2.0	19 x 19
Gen 2	PEX 8608	8	8	140	Yes	Yes	Yes	Yes	—	2	Yes	1.2	15 x 15
Gen 2	PEX 8606	6	6	190	Yes	Yes	Yes	Yes	—	2	Yes	1.0	15 x 15
Gen 2	PEX 8604	4	4	190	Yes	Yes	Yes	Yes	—	2	Yes	0.8	15 x 15
Gen 1	PEX 8548	48	9	110	—	—	Yes	—	3	1	—	4.9	37.5 x 37.5
Gen 1	PEX 8547	48	3	110	—	—	Yes	—	0	1	—	4.9	37.5 x 37.5
Gen 1	PEX 8533	32	6	115	—	—	Yes	—	3	1	—	3.3	35 x 35
Gen 1	PEX 8532	32	8	275	—	—	—	Yes	8	2	—	5.7	35 x 35
Gen 1	PEX 8525	24	5	115	—	—	Yes	—	3	1	—	2.6	31 x 31
Gen 1	PEX 8524	24	6	275	—	—	—	Yes	6	2	—	3.9	31 x 31
Gen 1	PEX 8518	16	5	150	—	—	—	Yes	5	2	Yes	2.6	23 x 23
Gen 1	PEX 8517	16	5	150	—	—	—	Yes	4	2	—	2.6	27 x 27
Gen 1	PEX 8516	16	4	275	—	—	—	Yes	4	2	—	2.6	27 x 27
Gen 1	PEX 8512	12	5	150	—	—	—	Yes	5	2	Yes	2.2	23 x 23
Gen 1	PEX 8509	8	8	118	—	—	Yes	—	3	1	—	1.2	15 x 15
Gen 1	PEX 8508	8	5	150	—	—	—	Yes	5	2	Yes	1.6	19 x 19
Gen 1	PEX 8505	5	5	138	—	—	Yes	—	3	1	—	0.8	15 x 15

*DBA = Dynamic Buffer Allocation; NT = Non-Transparency; HPC = Hot-Plug Controllers; VCs = Virtual Channels; SSC = Spread Spectrum Clock Isolation

PCI EXPRESS PLX ExpressLane™ PCI Express compliant Bridges

PCI-SIG® Base Spec.	Part Number	Lanes	Bus Interface	Reverse Mode	Forward Mode	Power	PCI Masters	GPIO	Package Size (mm ²)
Gen 1	PEX 8111	1	PCIe to PCI	Yes	Yes	400mW	4	4	10 x 10
									13 x 13
Gen 1	PEX 8112	1	PCIe to PCI	Yes	Yes	400mW	4	4	10 x 10
									13 x 13
Gen 1	PEX 8114	4	PCIe to PCI-X	Yes	Yes	2W	4	0	17 x 17

PCI EXPRESS PLX ExpressLane™ Bridge to Local Bus

PCI-SIG® Base Spec.	Part Number	Lanes	Description	DMA Channels	Integrated SerDes	Power	Root Complex Mode	Package Size (mm ²)
Gen 1	PEX 8311	1	8/16/32-bit, 66 MHz	2	Yes	1W	Yes	21 x 21

DMA = Dynamic Memory Access

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PLX PRODUCT SNAPSHOT (continued)

Legacy Solutions

FastLane™		FastLane™ PCI to PCI, & PCI to PCI-X Bridges				PCI CONVENTIONAL™	PCI-X		
Part Number	PCI to	PCI Bus Type	Local Bus Support	Non-Transparency	Power	GPIO	Asynchronous	Package Size (mm ²)	
PCI 6140	PCI	32-bit, 33 MHz	Rev. 2.1	No	200mW	0	No	23 x 17	
PCI 6150	PCI	32-bit, 66 MHz	Rev. 3.0	No	1.8W	4	Yes: 25-66 MHz	17 x 17	
								31 x 31	
PCI 6152	PCI	32-bit, 66 MHz	Rev. 2.2	No	300mW	4	No	15 x 15	
								32 x 32	
PCI 6154	PCI	64-bit, 66 MHz	Rev. 3.0	No	2W	4	Yes: 25-66 MHz	31 x 31	
PCI 6254	PCI	64-bit, 66 MHz	Rev. 3.0	Yes	2W	16	Yes: 25-66 MHz	31 x 31	
PCI 6466	PCI	64-bit, 66 MHz	Rev. 3.0	Yes	1W	16	Yes: 25-66 MHz	27 x 27	
PCI 6520	PCI-X	64-bit, 133 MHz	Rev. 3.0	No	2.4W	8	Yes: 25-133 MHz	27 x 27	
PCI 6540	PCI-X	64-bit, 133 MHz	Rev. 3.0	Yes	3.0W	16	Yes: 25-133 MHz	27 x 27	

PLX FastLane PCI 6000 series include the industry's broadest set of PCI-to-PCI and PCI-X to PCI-X bridges. These bridges allow more devices to be attached to the PCI bus, and provide the ability to include intelligent adapters on a PCI bus.

PCI CONVENTIONAL™		PCI to Local Bus I/O Accelerators						
Part Number	PCI Bus Type	Local Bus Speed (max)	Core Voltage	PICMG Support	Industrial Temperature	Package Size (mm ²)		
PCI 9030	32-bit, 33 MHz, PCI r2.2	60 MHz	3.3V	r2.0 Hot-Swap	Yes	26 x 26		
						12 x 12		
PCI 9052	32-bit, 33 MHz, PCI r2.1	40 MHz	5.0V	--	Yes	31.2 x 31.2		
PCI 9054	32-bit, 33 MHz, PCI r2.2	50 MHz	3.3V	r2.0 Hot-Swap	Yes	26 x 26		
						27 x 27		
PCI 9056	32-bit, 66 MHz, PCI r2.2	66 MHz	2.5V	r2.0 Hot-Swap	Yes	17 x 17		
PCI 9656	64-bit, 66 MHz, PCI r2.2	66 MHz	2.5V	r2.0 Hot-Swap	Yes	27 x 27		

PLX PCI 9000 series provide the most advanced and broadest range of general-purpose, PCI-to-local bus bridges in the industry. Our product offering includes two types of I/O Accelerators: Targets and Masters.

HI-SPEED CERTIFIED USB		USB 2.0 High Speed Controllers		NetChip			
Part Number	CPU Interface	Performance	Active Power	Suspended Power	I/O Voltage	Package Size (mm ²)	
NET 2270	8/16-bit, Asynchronous Local Bus	Up to 40MB per second	n/a	n/a	3.3V to 5V	10 x 10	
NET 2272	8/16-bit, Asynchronous Local Bus	Up to 40MB per second	186mW	8.1µW	1.8V to 5V	10 x 10	
						6 x 6	
NET 2280	32-bit, 33 MHz, PCI v3.0 Compliant	Up to 40MB per second	260mW	0.25µW	3.3V to 5V	14 x 14	
						8 x 8	
NET 2282	32-bit, 66 MHz, PCI v3.0 Compliant	Up to 40MB per second	220mW	316µW	3.3V to 5V	14 x 14	

PLX USB Controllers offer superior performance, strict compliance to industry standards, and dramatic power savings. These USB controllers are widely used in: printers, portable media players, GPS systems, TV tuners, PCs, laptops, notebooks, WLAN devices, mobile phones, digital cameras and camcorders.