

PLX Technology, Inc.

Complete Product Listing

September 2006



ExpressLane™ PCI Express® Switches

PCI Express(PCIe)® Switches enable fan-out-aggregation and peer-to-peer communication; and are well-suited for fabric backplane and intelligent I/O module applications.

Part #	Lanes	Ports	HPC	NT	VCs	Lane Reversal	I ² C	SERR Signal	SSC to CFC Buffering	WAKE#/ Beacon/V _{AUX}	Power (W) (Typ.)	Pkg. Size (mm)	Package Type
PEX 8508	8	5	5	Yes	2	Yes	Yes	Yes	Yes	Yes	2.41	19x19	296-ball, PBGA
PEX 8516	16	4	4	Yes	2	Yes					3.45	27x27	312-ball, PBGA
PEX 8517	16	5	4	Yes	2	Yes					3.45	27x27	312-ball, PBGA
PEX 8518	16	5	5	Yes	2	Yes	Yes	Yes	Yes	Yes	3.02	23x23	376-ball, PBGA
PEX 8524	24	6	6	Yes	2	Yes					6.14	35x35	680-ball, PBGA
											4.19	31x31	644-ball, PBGA
PEX 8532	32	8	8	Yes	2	Yes					6.14	35x35	680-ball, PBGA
PEX 8548	48	9	3	No	1	Yes	Yes	Yes	No	No	7.00	37.5x37.5	736-ball, PBGA

ExpressLane™ PCI Express Bridges

The PLX PCIe Bridge family allows designers to migrate legacy PCI and PCI-X® bus interfaces to the serial, PCI Express architecture.

Part #	Lanes	Bus Interface	Reverse	Forward	NT	Power	PCI Masters	GPIO	Pkg. Size (mm)	Package Type
PEX 8111	1	PCIe to PCI	Yes	Yes	No	400mW	4	4	13x13	144-ball, PBGA Lowest, Smallest Footprint
									10x10	161-ball, fine-pitch PBGA
PEX 8114	4	PCIe to PCI-X	Yes	Yes	Yes	2W	4	0	17x17	256-ball, PBGA

Local Bus to PCI Express Bridge

This multipurpose, feature-rich bridge enables users to add scalable, high-bandwidth interconnection to a wide variety of applications.

Part #	Lanes	Description	DMA Channels	Integrated SerDes	Power (W)	Root Complex Mode	Pkg. Size (mm)	Package Type
PEX 8311	1	8/16/32-bit, 66MHz, Local Bus to PCIe Bridge	2	Yes	1	Yes	21x21	337-ball, PBGA

FastLane™ PCI 6000 Product Family

The FastLane PCI to PCI / PCI-X family allows more devices to be attached to the PCI bus and provides the ability to include intelligent adapters on a PCI bus. The devices enable PCI buses of different speeds to co-exist on the same subsystem.

Part #	PCI	PCI Bus Type	Local Bus Support	Power	GPIO	Asynchronous	Pkg. Size (mm)	Package Type
PCI 6140	PCI	32-bit; 33MHz	Rev. 2.1	200mW	No	No	23x17	128-pin, PQFP
PCI 6150	PCI	32-bit; 66MHz	Rev. 3.0	1.8W	4	Yes; 25-66MHz	17x17	256-ball, PBGA
							31x31	208-pin, PQFP
PCI 6152	PCI	32-bit; 66MHz	Rev. 2.2	300mW	4	No	15x15	160-ball, Tiny BGA
							32x32	160-pin, PQFP
PCI 6154	PCI	64-bit; 66MHz	Rev. 3.0	2W	4	Yes; 25-66MHz	31x31	304-ball, PBGA
PCI 6254	PCI	64-bit; 66MHz	Rev. 3.0	2W	16	Yes; 25-66MHz	31x31	365-ball, PBGA
PCI 6466	PCI	64-bit; 66MHz	Rev. 3.0	1W	16	Yes; 25-66MHz	27x27	380-ball, PBGA
PCI 6520	PCI-X	64-bit; 133MHz	Rev. 3.0	2.4W	8	Yes; 25-133MHz	27x27	380-ball, PBGA
PCI 6540	PCI-X	64-bit; 133MHz	Rev. 3.0	3.0W	16	Yes; 25-133MHz	27x27	380-ball, PBGA

USB Controllers

Hi-Speed USB 2.0 Peripheral Controllers emphasize superior performance, strict compliance to industry standards and dramatic power savings.

Part #	CPU Interface	Performance	Active Power	Suspended Power	I/O Voltage	Pkg. Size (mm)	Package Type
NET 2272	8/16-bit; Async. Local Bus	Up to 40MB/sec	186mW	8.1μW	1.8V to 5V	10x10	64-pin, TQFP
						6x6	64-ball, FBGA
NET 2280	32-bit; 33MHz, PCI v3.0 Compliant	Up to 40MB/sec	260mW	0.25μW	3.3V to 5V	14x14	120-pin, TQFP
						8x8	121-ball, FPBGA
NET 2282	32-bit; 66MHz, PCI v3.0 Compliant	Up to 40MB/sec	220mW	316μW	3.3V to 5V	14x14	120-pin, TQFP

I/O Accelerators

In addition to supporting Direct Slave operation, the PCI Bus Master products add support for Direct Master operation to allow processor/local bus master devices to access memory and other devices on the PCI bus.

Part #	PCI Bus Type	Max. Local Bus Speed	Core Voltage	PICMG Support	Ind. Temp.	Pkg. Size (mm)	Package Type
PCI 9030	32-bit; 33MHz, PCI r2.2	60MHz	3.3V	r2.0 Hot Swap	Yes	26x26	176-pin, PQFP
						12x12	180-ball, μBGA
PCI 9052	32-bit; 33MHz, PCI r2.1	40MHz	5.0V		Yes	31.2x31.2	160-pin, PQFP
PCI 9054	32-bit; 33MHz, PCI r2.2	50MHz	3.3V	r2.0 Hot Swap	Yes	26x26	176-pin, PQFP
						27x27	225-ball, PBGA
PCI 9056	32-bit; 66MHz, PCI r2.2	66MHz	2.5V	r2.0 Hot Swap	Yes	17x17	256-ball, PBGA
PCI 9656	64-bit; 66MHz, PCI r2.2	66MHz	2.5V	r2.0 Hot Swap	Yes	27x27	272-ball, PBGA



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