

# PLX TECHNOLOGY PCI Bridges



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## EXPRESSLANE™ PCI EXPRESS SWITCHES

### ExpressLane™ PEX 86xx Series

These devices include the highest PCIe switch lane counts in the industry, at 96 and 80 lanes. These switches are PCI-SIG® PCIe 2.0 (Gen 2) specification-compliant with unique PLX-only features, including support for x16 port configurations, integrated non-transparency (NT) ports and a suite of performance-enhancing and system de-bug tools that empower system architects. The PLX ExpressLane™ PEX 8696 (96 lanes, 24 ports), PEX 8680 (80 lanes, 20 ports), PEX 8664 (64 lanes, 16 ports) and PEX 8649 (48 lanes, 12 ports) allow designers to build switch fabrics, redundant backplanes and complex storage applications without having to deal with high latency, high power consumption and bandwidth limitations associated with using multiple smaller switch chips.

For quantities greater than listed, call for quote.

| MOUSER STOCK NO.    | PLX Part No.      | Description                                                                     | Price Each |    |        |
|---------------------|-------------------|---------------------------------------------------------------------------------|------------|----|--------|
|                     |                   |                                                                                 | 1          | 50 | 100    |
| 862-PEX8505AA25BIG  | PEX 8505-AA25BI G | 5 Lane 5 Port PCI Express Switch                                                |            |    |        |
| 862-PEX8615-BA50BIG | PEX 8615-BA50BI G | 12 lane 12 port Gen 2 PCIe switch with DMA                                      |            |    | 18.27  |
| 862-PEX8619-BA50BCG | PEX 8619-BA50BC G | 16 lane 16 port Gen2 PCIe switch with DMA                                       |            |    | 77.44  |
| 862-PEX8624-BB50BIF | PEX 8624-BB50BI F | 24 Lane, 6 Port PCI Express Gen 2 Switch                                        |            |    | 82.74  |
| 862-PEX8680-AA50BCF | PEX 8680-AA50BC F | 80-Lane, 20-Port PCI Express Gen 2 (5.0 GT/s) Switch, 35x35mm FCBGA (Lead-Free) |            |    | 102.40 |
| 862-PEX8696-AA50BCF | PEX 8696-AA50BC F | 96-Lane, 24-Port PCI Express Gen 2 (5.0 GT/s) Switch, 35x35mm FCBGA (Lead-Free) |            |    | 272.22 |
|                     |                   |                                                                                 |            |    | 350.71 |

### ExpressLane™ PEX 8112 PCI Express to PCI Bridge

For quantities greater than listed, call for quote.

| MOUSER STOCK NO.    | PLX Part No.    | Description                                                 | Price Each |       |       |
|---------------------|-----------------|-------------------------------------------------------------|------------|-------|-------|
|                     |                 |                                                             | 1          | 50    | 100   |
| 862-PEX8112-AA66BIF | PEX8112-AA66BIF | 1 Lane PCI Express to PCI Bridge, 144-ball PBGA (Lead-Free) | 17.27      | 16.23 | 15.18 |

### ExpressLane™ PEX 8114 PCI Express to PCI Bridge

The ExpressLane™ PEX 8114 is a high performance bridge designed to the PCI Express-to-PCI/PCI-X Bridge Specification 1.0, that enables designers to migrate legacy PCI and PCI-X bus interfaces to the new advanced serial PCI Express. This 2-port device is equipped with a standard but flexible PCI Express port that scales to x1, x2 or x4 and a parallel bus segment supporting the advanced PCI-X protocol or conventional PCI operation.

|                     |                 |                                                |       |       |       |
|---------------------|-----------------|------------------------------------------------|-------|-------|-------|
| 862-PEX8114-BC13BIG | PEX8114-BC13BIG | 4-Lane PCI Express to PCI-X Bridge (Lead-Free) | 47.76 | 44.81 | 41.85 |
|---------------------|-----------------|------------------------------------------------|-------|-------|-------|

### ExpressLane™ PEX 8311 PCI Express to PCI Bridge

The ExpressLane™ PEX 8311 1-lane PCI Express (PCIe) to 32-bit, 66MHz generic local bus bridge offers complete protocol translations between these two standards. The device enables users to add scalable high bandwidth interconnection to a wide variety of applications including communication line cards, surveillance systems, industrial control, IP Media Servers, and medical imaging.

For quantities greater than listed, call for quote.

|                      |                 |                                                     |       |       |       |
|----------------------|-----------------|-----------------------------------------------------|-------|-------|-------|
| 862-PEX8311-AA66BC-F | PEX8311-AA66BCF | 1-Lane PCI Express Bridge, 21x21mm PBGA (Lead-Free) | 40.21 | 37.73 | 35.25 |
|----------------------|-----------------|-----------------------------------------------------|-------|-------|-------|

### PEX 8532 PCI Express Switch

The ExpressLane™ PEX 8532 device offers 32 PCI Express lanes, capable of configuring up to 8 flexible ports. The switch conforms to the PCI Express Base Specification, rev 1.0a. The 32-lane switch enables users to add scalable, high bandwidth I/Os to a wide variety of applications including servers, communications, storage, blade servers, and embedded systems.

For quantities greater than listed, call for quote.

|                    |                 |                                                              |        |   |   |
|--------------------|-----------------|--------------------------------------------------------------|--------|---|---|
| 862-PEX8532BC25BIG | PEX8532-BC25BIG | 32-Lane, 8-Port PCI Express Switch, 35x35mm PBGA (Lead-Free) | 157.89 | - | - |
|--------------------|-----------------|--------------------------------------------------------------|--------|---|---|

### PEX 8533 PCI Express Switch

The ExpressLane™ PEX 8533/8533S device offers 32 PCI Express lanes, capable of configuring up to 6 flexible ports. The switch conforms to the PCI Express Base Specification, rev 1.1. The 32-lane switch enables users to add scalable, high bandwidth I/Os to a wide variety of applications including servers, storage, communications, blade servers, and embedded-control systems. The PEX 8533S is well suited for fan-out, aggregation, peer-to-peer, backplane, and switch fabric applications. The architecture supports packet cut-thru with the industry's lowest latency of 115ns (x8 to x8) for a 32-lane switch. This, combined with large packet memory (1024 byte maximum payload size) and non-blocking internal switch architecture, provide full line-rate on all ports for performance-hungry applications.

For quantities greater than listed, call for quote.

|                     |                 |                                               |       |       |       |
|---------------------|-----------------|-----------------------------------------------|-------|-------|-------|
| 862-PEX8533-AA25BIG | PEX8533-AA25BIG | 32 Lane 6 Port PCI Express Switch (Lead-Free) | 96.07 | 90.53 | 89.12 |
|---------------------|-----------------|-----------------------------------------------|-------|-------|-------|

### PEX 8508 PCI Express Switch

The ExpressLane™ PEX 8508 8-lane, 5-port switch product offers PCI Express switching capability conforming to the PCI Express Specification r1.1. This device enables users to add low cost, scalable high bandwidth switching, both fan-in/out and peer-to-peer, to a wide variety of applications including office automation, network interface adapters, docking stations, AMC cards, and processor isolation for servers, storage, and communications. Non-transparent bridging allows the designer to isolate processors in multi-host designs. This switch is hardware configurable and software programmable, allowing users to tailor their port configurations and quality-of-service system needs to suit their application requirements. The PEX 8508 is offered in a 19 x 19mm 296-ball PBGA.

For quantities greater than listed, call for quote.

|                     |                 |                                                        |       |   |   |
|---------------------|-----------------|--------------------------------------------------------|-------|---|---|
| 862-PEX8508-AC25BIG | PEX8508-AC25BIG | 2.5GHz SerDes, BGA, Industrial Temperature (Lead-Free) | 34.72 | - | - |
|---------------------|-----------------|--------------------------------------------------------|-------|---|---|

## FASTLANE™ PCI-TO-PCI BRIDGES

### PCI 6140 33MHz PCI-to-PCI Bridge, 32-Bit

The FastLane™ PCI 6140 PCI-to-PCI Bridge (HB1) is optimized to provide PCI masters the ability to achieve optional zero clock latency in bursting data through the PCI-PCI bridge. It supports up to four secondary PCI master devices. The PCI 6140 is offered in a 23 x 17mm 128-pin PQFP.

For quantities greater than listed, call for quote.

| MOUSER STOCK NO.     | PLX Part No.     | Description                                                      | Price Each |       |       |
|----------------------|------------------|------------------------------------------------------------------|------------|-------|-------|
|                      |                  |                                                                  | 1          | 50    | 100   |
| 862-PCI6140-AA33PC-G | PCI6140-AA33PC G | PCI to PCI Bridge, 32bit, 33MHz, 128pin PQFP Package (Lead-Free) | 12.66      | 11.88 | 11.16 |

### PCI 6150 66MHz PCI-to-PCI Bridge, 32-Bit

The FastLane™ PCI 6150 PCI-to-PCI Bridge (HB4) is designed for high performance, high availability applications in hot swap, bus expansions, programmable data transfer rate control, frequency conversions from slower PCI to faster PCI or from faster PCI to slower PCI buses. The PCI 6150 has sophisticated buffer management and buffer configuration options designed to provide customizable performance optimization. The PCI 6150 is offered in a 17 x 17mm 256-ball BGA or 31 x 31mm 208-pin PQFP.

|                      |                  |                                                                       |       |       |       |
|----------------------|------------------|-----------------------------------------------------------------------|-------|-------|-------|
| 862-PCI6150-BB66BC-G | PCI6150-BB66BC G | Asynchronous PCI-to-PCI Bridge, 32bit, 66MHz, 256pin BGA (Lead-Free)  | 18.45 | 17.33 | 16.22 |
| 862-PCI6150-BB66PC-G | PCI6150-BB66PC G | Asynchronous PCI to PCI Bridge, 32bit, 66MHz, 208pin PQFP (Lead-Free) | 17.49 | 16.43 | 15.38 |

### PCI 6154 Asynchronous PCI-to-PCI Bridge

The PCI 6154 (HB2) asynchronous 64-bit 66MHz PCI-to-PCI bridge is designed for high performance, high availability applications in bus expansions, programmable data transfer rate control, frequency conversions from slower PCI to faster PCI or from faster PCI to slower PCI buses. The PCI 6154 has sophisticated buffer management and buffer configuration options designed to provide customizable performance optimization.

|                      |                  |                                                                       |       |       |       |
|----------------------|------------------|-----------------------------------------------------------------------|-------|-------|-------|
| 862-PCI6150-BB66BC-G | PCI6150-BB66BC G | Asynchronous PCI-to-PCI Bridge, 32bit, 66MHz, 256pin BGA (Lead-Free)  | 18.45 | 17.33 | 16.22 |
| 862-PCI6150-BB66PC-G | PCI6150-BB66PC G | Asynchronous PCI to PCI Bridge, 32bit, 66MHz, 208pin PQFP (Lead-Free) | 17.49 | 16.43 | 15.38 |

### PCI 6254 PCI-to-PCI Bridge

For quantities greater than listed, call for quote.

|                      |                  |                                             |       |       |       |
|----------------------|------------------|---------------------------------------------|-------|-------|-------|
| 862-PCI6254-BB66BC-G | PCI6254-BB66BC G | PCI 6254 PCI-to-PCI Bridge Chip (Lead-Free) | 43.22 | 40.55 | 37.88 |
|----------------------|------------------|---------------------------------------------|-------|-------|-------|

### PCI 6540 133MHz PCI-X to PCI-X Bridge, 64-Bit

The FastLane™ PCI 6540 PCI-X to PCI-X Bridge (HB8) is a dual-mode universal adaptive high performance asynchronous 133MHz 64-bit PCI-X to PCI-X bridge for servers, storage, DSP, telecommunication, networking and embedded applications.

For quantities greater than listed, call for quote.

|                      |                 |                                                                |       |       |       |
|----------------------|-----------------|----------------------------------------------------------------|-------|-------|-------|
| 862-PCI6540-CB13BI   | PCI6540-CB13BI  | 64-bit; 133MHz PCI-X to PCI-X Bridge, 27x27mm PBGA             | 91.98 | 86.27 | 80.56 |
| 862-PCI6540-CB13BI-G | PCI6540-CB13BIG | 64-bit; 133MHz PCI-X to PCI-X Bridge, 27x27mm PBGA (Lead-Free) | 83.98 | 78.77 | 73.55 |