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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 3.3V, PCI Express® 3.0 2-Lane, (4-Channel), Differential Mux/Demux with Bypass

### Features

- 8 Differential Channel SPST switch with Mux/DeMux option
- PCIe® 3.0 performance
- Bi-directional operation
- Low Bit-to-Bit Skew: 10ps (between ± signals)
- Low Crosstalk: -50dB @ 4.0GHz (8Gbps)
- Low Off Isolation: -21dB @4GHz
- Low Insertion Loss: -1.8dB @ 4.0GHz (8Gbps)
- Return Loss: -15dB @4GHz
- V<sub>DD</sub> Operating Range: 3.3V ±10%
- ESD Tolerance: 2kV HBM
- Packaging (Pb-free & Green): 42-contact, TQFN (ZH42)

### Description

Pericom semiconductor's PI3PCIE3422 is an 8 to 4 channel differential multiplexer/demultiplexer featuring 8-channel pass-through. It supports two full PCIe® lanes at 8.0Gbps PCIe® 3.0 performance.

With the select control input low Port A connects to Port B, and Port C connects to port D for an 8-channel differential pass-through. When the select control input is high Port A connects to Port D, and Port B and Port C are in a high-impedance state. The mux/demux function is between Port A and Ports B or D as determined by the select input control.

### Truth Table

Function	SEL	OE#
Ax = Bx Cx = Dx	L	0
Ax = Dx B = C = Hi-Z	H	0
Ax, Bx, Cx, Dx = Hi-Z (disconnected)	x	1

### Block Diagram

