



Product news

PCIe 4.0 Mux/DeMux ReDrivers From Diodes Incorporated Address Challenges of Routing High-Speed Serial Bus Signals

Plano, Texas – April 21, 2020 – Diodes Incorporated (Nasdaq: DIOD) today announced the [PI3EQX16612](#) and [PI3EQX16621](#) PCI Express® compliant [ReDriver™](#) devices offering four differential channels with either 1:2 (demultiplexing) or 2:1 (multiplexing), respectively. PCIe® 4.0 is the preferred serial interface for high-performance IT equipment including desktop and laptop PCs and workstations, and for use in embedded systems.

As microprocessor manufacturers continue to push the performance envelope in serial bus speeds, differential ReDrivers are essential in applications that need to implement longer PCB trace lengths without introducing additional signal latency. The PI3EQX16612 and PI3EQX16621 offer four channels in a single package at speeds of up to 16Gbps per channel. This combination supports the routing of high-speed serial interfaces across motherboards where longer signal traces are needed to mitigate the effect of more densely populated cards.

With full backwards-compatibility to PCIe 1.0, the [PI3EQX16612](#) and [PI3EQX16621](#) ReDrivers offer an adjustable output linear swing, flat gain and equalization, all of which are configurable through pin strapping. These features allow design optimization to reduce intersymbol interference across a range of different physical mediums without the need for firmware configuration.

The linear equalization function operates across speeds from 2.5Gbps to 16Gbps, making it suitable for systems utilizing PCIe 1.0, 2.0, 3.0, and 4.0. Each of the four channels is independently configurable, allowing designers complete flexibility to configure each channel based on the circuit conditions, such as trace length, signal integrity, and component placement.

[PI3EQX16612](#) and [PI3EQX16621](#) are available now priced from \$2.90 each in 3500 piece quantities.

PCI Express® and PCIe® are trademarks or registered trademarks and/or service marks of PCI-SIG Corporation.

ReDriver™ is a trademark of Diodes Incorporated.

About Diodes Incorporated

Diodes Incorporated (Nasdaq: DIOD), a Standard and Poor's SmallCap 600 and Russell 3000 Index company, delivers high-quality semiconductor products to the world's leading companies in the consumer electronics, computing, communications, industrial, and automotive markets. We leverage our expanded product portfolio of discrete, analog, and mixed-signal products and leading-edge packaging technology to meet customers' needs. Our broad range of application-specific solutions and solutions-focused sales, coupled with worldwide operations of 25 sites, including engineering, testing, manufacturing, and customer service, enables us to be a premier provider for high-volume, high-growth markets. For more information visit www.Diodes.com.

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