



New Product Announcement

PI3EQX16904GL

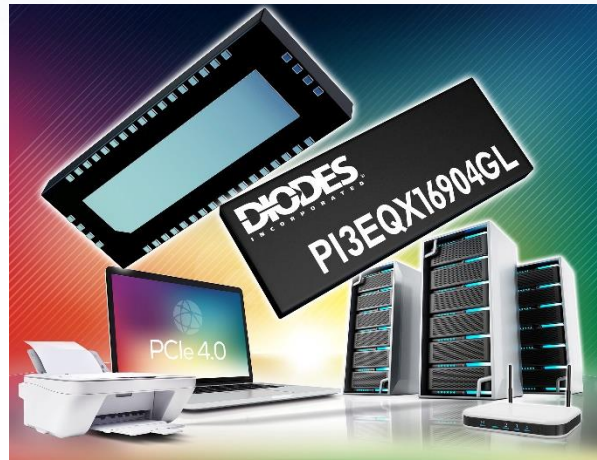
Four-Channel ReDriver Boosts Signal Quality of High-Speed PCIe 4.0 Interfaces

The PI3EQX16904GL is a linear ReDriver, compliant with PCIe 4.0 and backwards compatible with PCIe 3.0/2.0/1.0.

It has four differential channels providing programmable linear equalization, output swing and flat gain. The equalization is controlled by either the pin-strapping option or I²C Control; and optimizes performance over a variety of physical media by reducing inter-symbol interference.

The PI3EQX16904GL is used to extend PCB trace lengths while minimizing cost and power consumption. It can also deliver lower latency.

Operating from a supply voltage of 3.3V, the device operates over the industrial temperature range of -40 to +85°C.



The Diodes Advantage

- **2.5 to 16Gbps, 4-Channel Linear Equalizer**
Supports PCIe 4.0 and backward compatible to PCIe 3.0/2.0/1.0.
- **Extends PCB trace lengths while minimizing cost, power and reduces signal latency.**
- **Independent channel configuration of receiver equalization, output swing and flat gain**
Compensates signal loss of PCB trace length with different settings.
- **Pin-strap and I²C selectable device programming**
Provides easy design without the need for heavy firmware support.

Applications

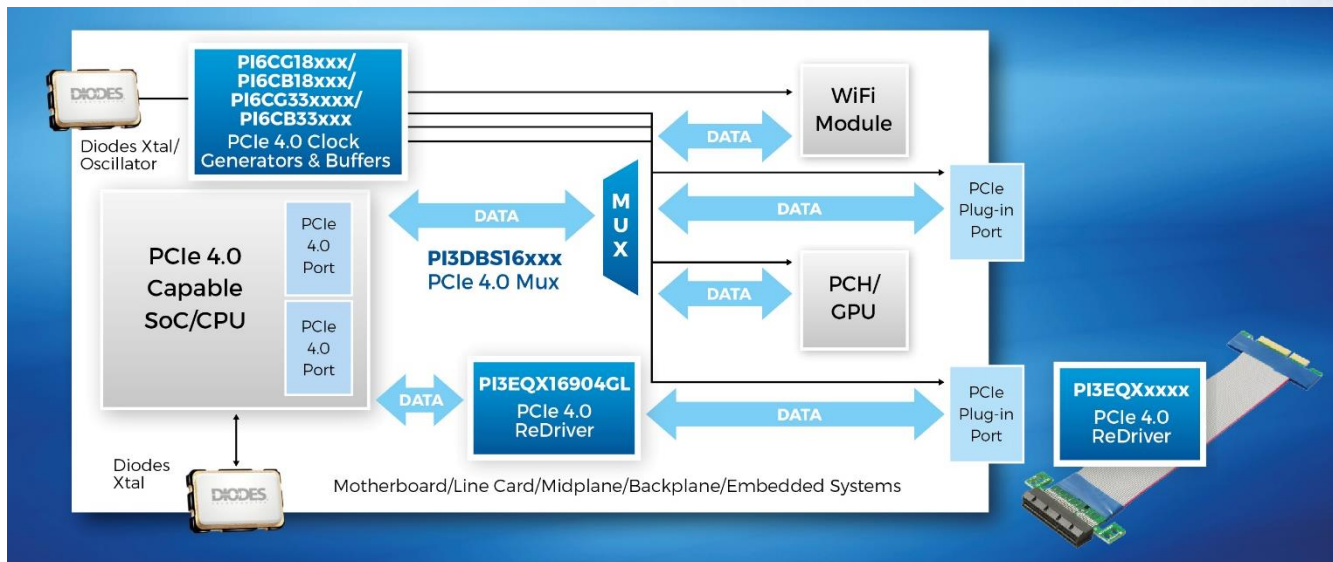
- Server
- Storage
- Networking
- Workstation
- High performance PC
- CPU-to-network (PCIe NIC card)
- CPU-to-storage (NVME) interconnects
- CPU-to-CPU interconnects (compute clusters)



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Application Diagram in Server



PCIe 4.0 ReDriver Portfolio

Ordering Code	Description	Package
PI3EQX16904GL	PCIe 4.0, four differential channel ReDriver	TQFN-42L

To find out more information: <https://www.diodes.com/part/PI3EQX16904GL>

Ordering Information

Ordering Code	Packaging Code	Package Description	Quantity per Reel	Reel Size
PI3EQX16904GLZHEX	ZH	42-contact TQFN (9mm x 3.5mm)	3,500	13"