



New Product Announcement

PI3EQX16908GL

PI3EQX16908GL 8-Channel ReDriver Boosts Signal Quality of High-Speed PCIe 4.0 Interfaces

The PI3EQX16908GL is a linear ReDriver, compliant with PCIe 4.0 and backwards compatible with PCIe 3.0/2.0/1.0.

It has eight differential channels that provide programmable linear equalization, output swing, and flat gain. The equalization is controlled by either pin-strapping option or I2C control and optimizes performance over a variety of physical media by reducing intersymbol interference.

The PI3EQX16908GL 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°C to +85°C.



The DIODES' Advantage

- **2.5 to 16Gbps, 8-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.**

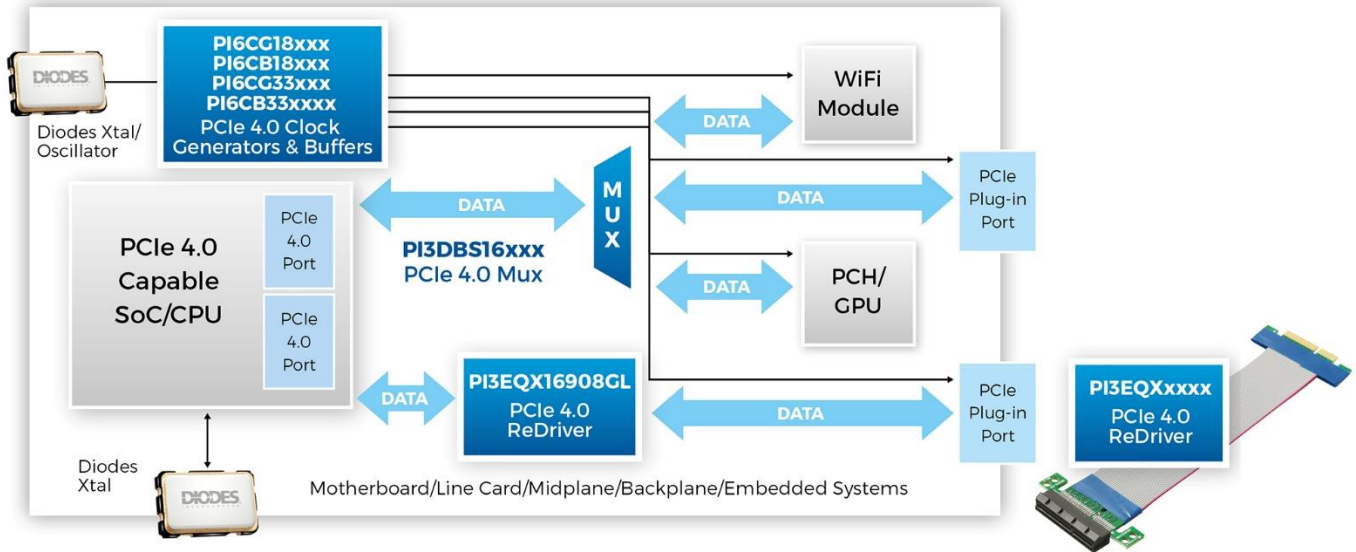
- **Independent Channel Configuration of Receiver Equalization, Output Swing, and Flat Gain**
Compensates signal loss of PCB trace length with different settings

- **Pin-Strap and I2C Selectable Device Programming**
Provides easy design without requiring 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)

Application Diagram in Server



PCIe 4.0 ReDriver Portfolio

Part Number	Description	Package
PI3EQX16904GL	PCIe 4.0, four differential channel ReDriver	TQFN-42L
PI3EQX16908GL	PCIe 4.0, eight differential channel ReDriver	TQFN-72L

To find out more information: <https://www.diodes.com/part/PI3EQX16908GL>

Ordering Information

Part Number	Packaging Code	Package Description	Quantity per reel	Reel Size
PI3EQX16908GLZLEX	ZL	72-contact TQFN (11mm x 5mm)	2000	13"