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)
New Product Announcement

PI3EQX16908GL

Application Diagram in Server

PCIe 4.0 ReDriver Portfolio

<table>
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<tr>
<th>Part Number</th>
<th>Description</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>PI3EQX16904GL</td>
<td>PCIe 4.0, four differential channel ReDriver</td>
<td>TQFN-42L</td>
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<tr>
<td>PI3EQX16908GL</td>
<td>PCIe 4.0, eight differential channel ReDriver</td>
<td>TQFN-72L</td>
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To find out more information: [https://www.diodes.com/part/PI3EQX16908GL](https://www.diodes.com/part/PI3EQX16908GL)

Ordering Information

<table>
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<tbody>
<tr>
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<td>ZL</td>
<td>72-contact TQFN (11mm x 5mm)</td>
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