



New Product Announcement

PI3EQX32908

Eight-Channel ReDriver Boosts Signal Quality of High-Speed PCIe 5.0, SAS4, and CXL Interfaces

The DIODES™ PI3EQX32908 is an eight-channel linear ReDriver™ compliant with PCIe 5.0, SAS4, and CXL protocols.

It meets the modern standby mode requirements outlined by Microsoft® Corporation and delivers elevated linearity and ultra-low jitter characteristics.

The PI3EQX32908 provides programmable linear equalization, output swing, and flat gain. The equalization is controlled by either a pin-strapping option or I2C-control and optimizes performance over a variety of physical media by reducing inter-symbol interference.

The device extends PCB trace lengths while minimizing cost and power consumption as well as delivering lower latency.

Operating from a 3.3V supply voltage, the PI3EQX32908 operates over an industrial temperature range of -40°C to +85°C and is packaged in the WQFN-62 package.

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The DIODES™ Advantage

High-performance linear ReDriver of up to 32Gbps with modern standby mode reduces power consumption.

- **32Gbps, Eight-Channel, Linear Equalizer**
Supports PCIe 5.0, SAS4, and CXL protocols
- **Supports Modern Standby Mode**
Enables power consumption of less than 5mW when system is in deep standby mode
- **Programmable Linear Equalization, Output Swing, and Flat Gain**
Extends PCB trace lengths while reducing signal latency and minimizing cost and power
- **Pin-Strap and Selectable I2C Device Programming**
Provides ease-of-design without the need for heavy firmware
- **Supports Automatic Receiver Detection and "Low-Power" Mode for Adaptive Power Management**
Device goes into low-power mode when signal is inactive

Applications

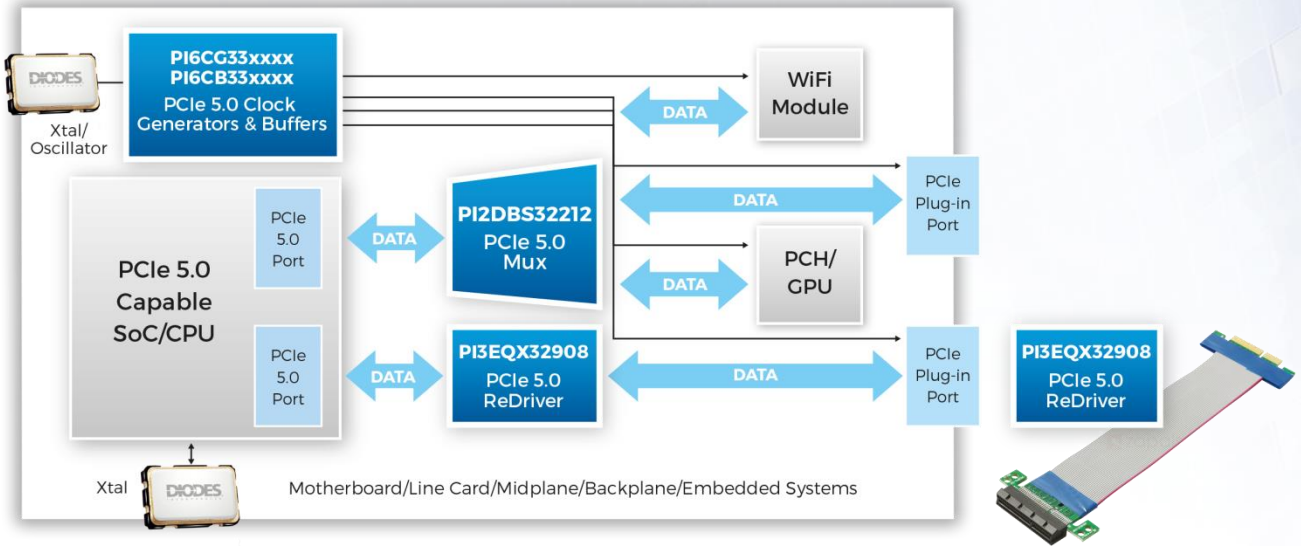
- Servers
- Storage devices
- Networking systems
- Workstations
- High-performance PCs
- All-in-one PCs
- Desktops
- Laptops



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PI3EQX32908

Typical Application



Product Portfolio

Part Number	Description	Package
PI3EQX32908ZRIEX	PCIe 5.0, 32Gbps, eight-differential channel ReDriver	WQFN-62
PI3EQX16908GL	PCIe 4.0, 16Gbps, eight-differential channel ReDriver	TQFN-72

Ordering Information

Orderable Part Number	Compliance (Only Automotive supports PPAP)	Package Code	Package	Moisture Sensitivity	Quantity	Carrier
PI3EQX32908ZRIEX	Standard	ZR	62-Contact WQFN (9mm x 3.5mm)	MSL-3	3500	13" Tape and Reel