



# New Product Announcement

## PI3EQX32904

### Four-Channel ReDriver Boosts Signal Quality of High-Speed PCIe 5.0, SAS4, and CLX Interfaces

The PI3EQX32904 is a four-channel linear ReDriver™ compliant with PCIe® 5.0, SAS4, and CLX protocol.

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

The PI3EQX32904 provides programmable linear equalization, output linearity, and flat gain.

The device's equalization is I2C-controlled and optimizes performance over a variety of physical media by reducing intersymbol interference.

The PI3EQX32904 is used to extend PCB trace lengths while minimizing cost as well as power consumption. It also delivers lower latency.

Operating from a supply voltage of 3.3V, the device operates over the industrial temperature range of -40 to +85°C. The PI3EQX32904 is available in the W-QFN3063-46 package.

*ReDriver is a trademark of Diodes Incorporated.*

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#### The DIODES Advantage

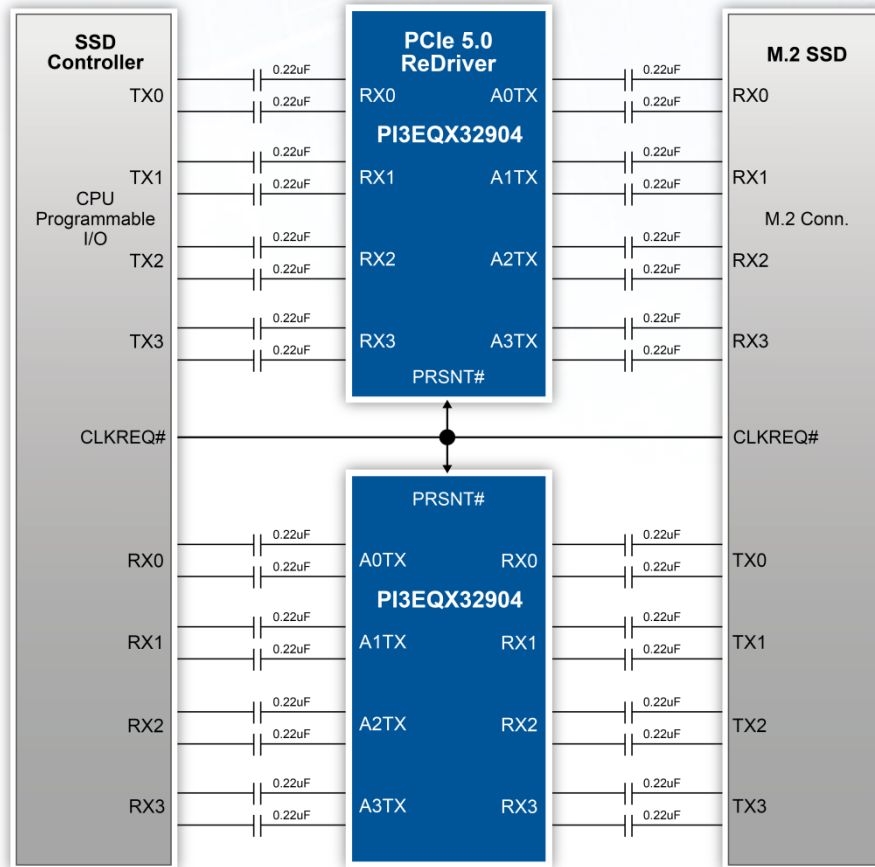
**Up to 32Gbps high-performance linear ReDriver with Modern Standby mode to reduce power consumption.**

- **32Gbps, Four-Channel Linear Equalizer**  
Supports PCIe 5.0, SAS4, and CLX protocols
- **Supports Modern Standby Mode**  
Consumes less than 5mW power when system is in deep standby mode
- **Programmable Linear Equalization, Output Linearity, and Flat Gain**  
Extends PCB trace lengths while reducing signal latency and minimizing cost and power consumption
- **I2C Selectable Device Programming**  
Provides easy design without the need for heavy firmware support
- **Supports Automatic Receiver Detection and "Low-Power" Mode for Adaptive Power Management**  
Device goes into low-power mode when signal is not active

#### Applications

- PCs
  - All-In-One PCs
  - Desktops
  - Laptops
  - High Performance PCs
- Servers
  - Storage
  - Networking
  - Workstations

### Typical Application



### PCIe 5.0 ReDriver Portfolio

Part Number	Description	Package
<a href="#">PI3EQX32904</a>	PCIe 5.0, 32Gbps, four-differential channel ReDriver	W-QFN3063-46
<a href="#">PI3EQX32908</a>	PCIe 5.0, 32Gbps, eight-differential channel ReDriver	W-QFN3590-62

### Ordering Information

Orderable Part Number	Packaging Code	Package Description	Packing	
			Quantity	Reel Size
<a href="#">PI3EQX32904ZREX</a>	ZR	46-contact WQFN (6.3mm x 3mm)	3,500	13" Tape & Reel