



New Product Announcement

PI3EQX12904A

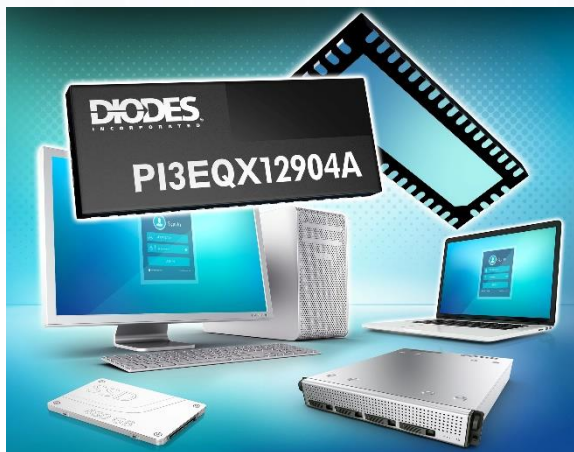
8Gbps, 2-Lane PCIe 3.0 and SATA3 Combo ReDriver

The PI3EQX12904A is a PCIe 3.0/SATA3 combo ReDriver with linear equalization up to 8Gbps.

The device has four differential channels, providing programmable linear equalization, output swing, and flat gain. The equalization is controlled by pin-strapping and optimizes performance over a variety of physical media by reducing intersymbol interference.

The PI3EQX12904A 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.



DIODES Advantage

- **Up to 8Gbps, 2-Lane (4-Channel) Linear Equalizer**
Supports PCIe 3.0 and SATA3 protocol
- **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
- **Supports Auto Receiver Detection and Low-Power Mode for Adaptive Power Management**

Applications

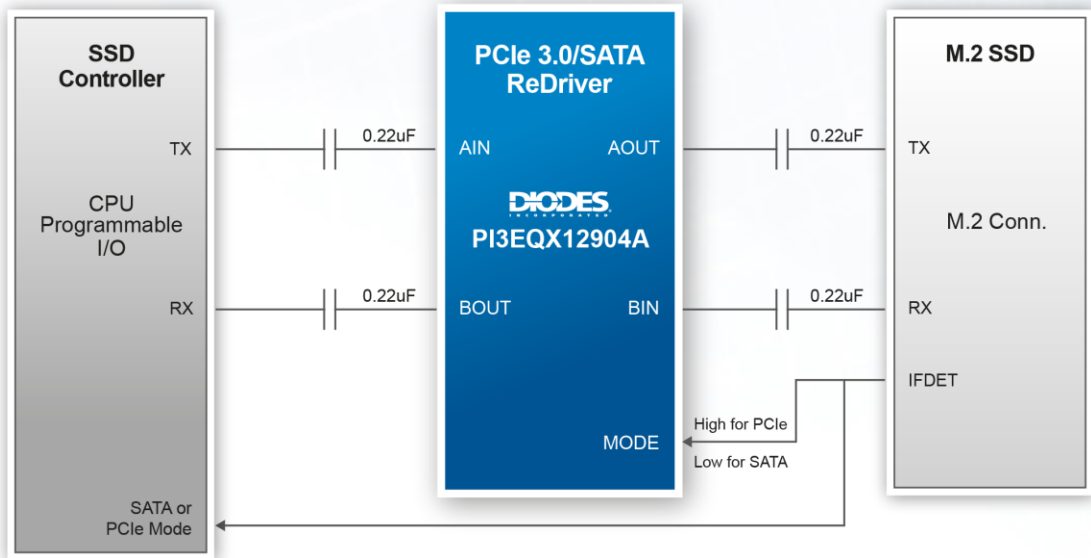
- Laptop PC
- All-in-One PC
- Desktop PC
- IPC
- Storage
- Embedded System



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Application Diagram



8Gbps, PCIe 3.0/SATA3 Combo ReDriver Portfolio

Ordering Code	Description	Package
PI3EQX12904A	8Gbps, 2 Lanes PCIe 3.0/SATA3 Combo Redriver	TQFN-42L

To find out more information: <https://www.diodes.com/part/PI3EQX12904A>

Ordering Information

Ordering Code	Packaging Code	Package Description	Quantity per Reel	Reel Size
PI3EQX12904AZHEX	ZH	42-contact TQFN (9mm x 3.5mm)	3500	13"