



# New Product Announcement

## PI3EQX2064

### USB 3.2 Gen 2x2, 20Gbps, Linear ReDriver™ Boosts Signal Quality of Super-Speed USB Type-C® Interfaces

The PI3EQX2064 is a low-power, 20Gbps, USB Type-C, linear ReDriver that is compliant with USB 3.2 Gen 2x2 and supports backwards compatibility with USB 3.2 Gen 2 and Gen 1.

The device can support modern standby mode with less than 5mW to save power consumption in the system.

Its adjustable linear equalization, output swing, and flat gain optimizes performance over a variety of physical media by reducing inter-symbol interference.

Our intelligent, patented ReDriver technology enables longer PCB trace lengths while minimizing cost and power consumption.

The PI3EQX2064 is available in an ultra-small and thin U-QFN2143-32 (ZTFA32) package type, occupying only 2.1mm x 4.3mm and reducing PCB size and total bill of materials (BOM) cost.



#### The DIODES Advantage

**Ultra-small footprint USB 3.2 Gen 2x2 ReDriver boosts signal quality while lowering cost and power consumption.**

- **USB 3.2 Gen 2x2, Single-Port, Linear ReDriver**  
Supports 20Gbps data rates in USB Type-C ports
- **Supports Modern Standby Mode**  
Enables system designers to meet latest requirements
- **Ultra-Small and Thin U-QFN2143-32 Package**  
Reduces PCB cost and size, with a 20% decrease in footprint from previous versions
- **Individual Channel Adjustment of Linear Equalization, Output Swing, and DC Flat Gain**  
Compensates signal losses of PCB trace lengths, which reduces inter-symbol interference

#### Applications

USB 3.2 and USB-C ports in:

- Laptops/desktop PCs
- Tablet PCs
- TVs
- Workstations
- Servers

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### Typical Application



### USB 3.2 Gen 2x2, USB Type-C, 20Gbps ReDriver Portfolio

Part Number	Protocols	Differential Signal Pairs	Channel Data Rate	Lanes/ Ports	Programming Interface	Modern Standby	Package
<a href="#">PI3EQX2064</a>	USB 3.2 Gen 2x2	4	10Gbps	One 2x2 Port	Pin Mode	Yes	U-QFN2143-32 (ZTFA32)
<a href="#">PI3EQX2024</a>	USB 3.2 Gen 2x2	4	10Gbps	One 2x2 Port	Pin Mode	Yes	U-QFN2545-34

### Ordering Information

Orderable Part Number	Compliance (Only Automotive Supports PPAP)	Package	Moisture Sensitivity	Packing	
				Quantity	Carrier
<a href="#">PI3EQX2064ZTFEX</a>	<a href="#">Standard</a>	U-QFN2143-32 (ZTFA32)	MSL-1	3,500	13" Tape & Reel