

# New Product Announcement

**PI3EQX1014** 

## 10Gbps, Two-Port ReDriver Boosts Signal Quality of High-Speed USB Interfaces for USB Type-A Ports

The PI3EQX1014 is a low-power, 10Gbps, two-port linear ReDriver™ that is compliant with USB 3.2 Gen 2x1, and backward compatible with USB 3.2 Gen 1 at 5Gbps.

The device is included in the Intel® Modern Standby Platform Component List (PCL).

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

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

The PI3EQX1014 is available in an ultrasmall and thin U-QFN2545-34 package type, occupying only 2.5mm x 4.5mm and reducing PCB size and total bill of materials (BOM) cost.



#### The DIODES Advantage

This USB 3.2 Gen 2x1, 10Gbps ReDriver supports modern standby mode for two-port USB Type-A data signals.

- USB 3.2 Gen 2x1, Dual-Port, Linear ReDriver
   Supports 10Gbps data rates in USB Type-A ports
- Modern Standby Mode
   Enables system designers to meet latest requirements
- Ultra-Small and Thin U-QFN2545-34 Package Reduces PCB size and cost
- Individual Channel Adjustment of Linear Equalization, Output Swing, and DC Flat Gain
   Compensates signal losses of PCB trace lengths, which reduces intersymbol interference

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#### **Applications**

- Laptop/desktop PCs
- Smart handheld devices
- Workstations
- Servers



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## **Typical Application**



#### USB 3.2 Gen 2x1, 10Gbps ReDriver Portfolio

Part Number	Description	Channels	Data Rate Gbps	Lanes/ Ports	Max Output Swing mV	Programming Interface	Packages	
PI3EQX1014	USB 3.2 Gen 2x1 ReDriver Ultra-Small Package	4	10	2/2	1000	Pinstrap	U-QFN2545-34 (ZTF34)	
PI3EQX1002E2	USB 3.2 Gen 2x1 ReDriver Ultra-Small Package	2	10	1/1	1000	Pinstrap	W-QFN2525-24 (ZR24)	

### **Ordering Information**

Orderable Part	Compliance (Only Automotive Supports PPAP)	Packaging Code		Moisture Sensitivity	Packing	
Number			Package		Quantity	Carrier
PI3EQX1014ZTFEX	<u>Standard</u>	ZTF34	U-QFN2545-34 (2.5mm x 4.5mm x 0.60 mm)	MSL-1	3,500	13" Tape & Reel