



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# PI3EQX8908A2

## 2.5Gbps/5.0Gbps/8.0Gbps 8-channel PCI Express ReDriver with Linear Equalization

### Description

Diodes Incorporated's PI3EQX8908A2 is a PCIe, 8 differential channel ReDriver. The device provides programmable linear equalization, output swing and gain, by either pin strapping option or I<sup>2</sup>C Control, to optimize performance over a variety of physical mediums by reducing Inter-symbol interference.

The PI3EQX8908A2 supports eight 100-Ohm Differential CML data I/O's and extends the signals across other distant data pathways on the user's platform.

The programmable settings can be applied easily via pins, software (I<sup>2</sup>C) or loaded via an external EEPROM. When operating in the EEPROM mode, the configuration information is automatically loaded on power up, which eliminates the need for an external microprocessor or software driver.

The PI3EQX8908A2 offers fully Linear Transfer function to fully comply with all PCIe 3 Link Training signals.

### Ordering Information

Ordering Number	Package Code	Package Description
PI3EQX8908A2ZFE	ZF	54-Contact, Very Thin Quad Flat No-Lead (TQFN)
PI3EQX8908A2ZFEX	ZF	54-Contact, Very Thin Quad Flat No-Lead (TQFN), Tape & Reel

**Notes:**

- Thermal characteristics can be found on the company web site at : [www.pericom.com/packaging/](http://www.pericom.com/packaging/)
- E = Pb-free and Green
- X suffix = Tape/Reel

### Features

- 2.5/5.0/8.0Gbps serial link with linear equalizer
- Support PCIe Gen 1/2/3 protocol
- Supporting 8 differential channels
- Independent channel configuration of receiver equalization, output swing and flat gain
- Per Channel Activity Detector with selectable input termination between 50Ω to V<sub>DD</sub> and 200KΩ to V<sub>DD</sub> Per Channel Output Termination Detector on power up with selectable output termination between 50Ω to V<sub>DD</sub> and High impedance
- Very linear transfer function
- Fully compliant to PCISIG Link Training
- Single-ended mode receiver detection for PCIe
- Input Threshold detection
- Pin strap and I<sup>2</sup>C master/slave selectable device programming with external EEPROM
- 4-bit selectable address bit for I<sup>2</sup>C
- Supply Voltage: 3.3V±0.3V
- Industrial Temperature Range: -40°C to 85°C
- Packaging (Pb-free & Green):
  - 54-contact TQFN

### Eye Diagram

