

PRODUCT BRIEF

SIGNAL INTEGRITY SOLUTIONS

PI3EQX12908A

PCIe3/10GE/SAS3 12Gps 8-channel ReDriver™ with Linear Equalization

Description

Pericom Semiconductor's PI3EQX12908A is a PCIe3, 10GE-KR, SAS3, 8 differential channels ReDriver™. The device provides programmable linear equalization, output swing and gain, by either pin strapping option or I²C Control, to optimize performance over a variety of physical mediums by reducing Inter-symbol interference.

The PI3EQX12908A 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 (I²C) or loaded via an external EEPROM.

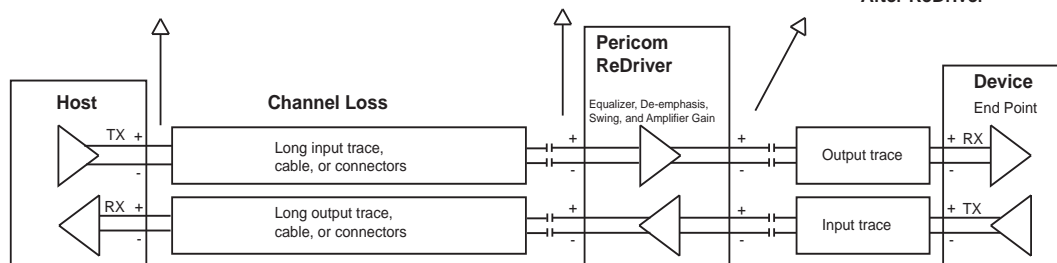
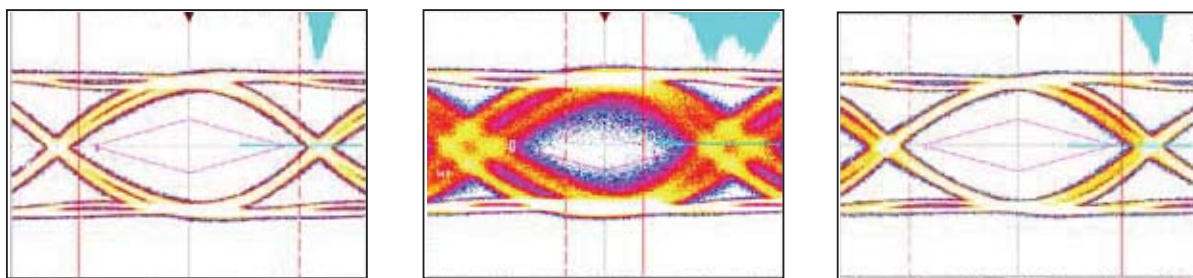
When operating in the EEPROM mode, the configuration information is automatically loaded on power up, which eliminates the need for an external microprocessor or software driver.

The PI3EQX12908A offers fully Linear Transfer function to fully comply with all PCIe 3, 10GE & SAS3 Link Training signals.

Applications

- Rack server
- JBOD storage
- Blade server

Eye Diagram



Features

- 8-12Gbps serial link with linear equalizer
- Handle up to 36dB channel loss
- Support PCIe Gen 3, 10GE, SAS3 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_{DD} and 200KΩ to V_{DD}
- Per Channel Output Termination Detector on power up with selectable output termination between 50Ω to V_{DD} and high impedance
- Very linear transfer function
- Fully compliant to PCISIG, 10GE-KR, SAS3 Link Training
- Single-ended mode receiver detection for PCIe
- Input Threshold detection
- Pin strap and I²C master/slave selectable device programming with external EEPROM
- 4-bit selectable address bit for I²C
- Supply Voltage: 3.3V±0.3V
- Industrial Temperature Range: -40°C to 85°C
- Packaging (Pb-free & Green):
- 54-contact TQFN (10mm x 5.5mm x 0.5mm pitch) - flowthrough pinout

单击下面可查看定价，库存，交付和生命周期等信息

[>>Diodes Incorporated\(达达科技\(美台\)\)](#)