Obsolete – Part Discontinued, Use PI3EQX12908A

A product Line of
Diodes Incorporated

PRODUCT BRIEF

PI3EQX10908A

10Gbps 8-channel 10GE, ReDriver with Linear Equalization

Description

The PI3EQX10908A is a 10Gigabit Ethernet, 8 differential channels ReDriver. The device provides programmable linear equalization, output swing and flat gain, by either pin strapping option or I²C Control, to optimize performance over a variety of physical mediums by reducing Inter-symbol interference.

PI3EQX10908A supports four 100-Ohm Differential CML data I/O's and extends the signals across other distant data pathways on the user's platform.

The integrated equalization circuitry provides flexibility with signal integrity of the signal before the ReDriver, whereas the integrated circuitry provides flexibility with signal integrity of the signal after the ReDriver.

Features

- 1 to 11.3Gbps serial link with linear equalizer
- Ideal for 10Gb and 40Gb Ethernet applications, 10Gb fiber channel, and 10G-KR suppport, up to 11.3Gbps data rates
- Support 10GE protocol
- Supporting 8 differential channels
- Independent channel configuration of receiver equalization, output swing and flat gain
- Fully compliant to KR link training
- Very linear transfer function
- Input Threshold detection
- Pin strap and I²C master/slave selectable device programming
- 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

Block Diagram