

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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## PI3EQX10964

### 10.0Gbps 8-Channel ReDriver™ with Equalization & De-Emphasis

Pericom Semiconductor's PI3EQX10964 is a lower power, high performance 8-differential channels ReDriver™.

The device provides per channel programmable equalization, output swing, de-emphasis, and amplifier gain.

The PI3EQX10964 provides master/slave I<sup>2</sup>C Control, to optimize performance over a variety of physical mediums by reducing Inter-symbol interference.

PI3EQX10964 supports eight 100-Ohm Differential data I/O's and extends the signals across other distant data pathways on the user's platform.

Pericom PI3EQX10964 offers programmable transmit de-emphasis (up to 9 dB), transmit V<sub>OD</sub> (up to 1200 mVp-p) and receive equalization (up to 35.7 dB) to enable longer distance transmission in lossy copper cables (10m+), or backplanes (40"+) with multiple connectors. The receiver is capable of opening an input eye that is completely closed due to inter-symbol interference (ISI) introduced by the interconnect medium.

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.

#### Features

- Support up to 11.3Gbps serial link
- Ideal for 10Gb and 40Gb Ethernet applications, 10Gb fiber channel, and 10Gb SFI, XFI and KR, up to 11.3Gbps data rates
- 4 bi-directional lanes (PI3EQX10964)
- Independent channel configuration of receiver equalization, output swing, de-emphasis, and amplifier gain
- Per Channel Activity Detector with selectable input termination between 50Ω to V<sub>DD</sub> and > 200KΩ
- Per channel output termination detect on power-up with selectable output termination between 100Ω differential and High Impedance
- 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
- Hot Plug Detect – allows host to reset if end point is removed (see note 1)
- Supply Voltage: 3.3V±10%
- Packaging (Pb-free & Green):
  - 56-contact TQFN (11mm x 5mm, 0.5mm pitch) (PI3EQX10964)

#### Eye Diagram

