

## PI3EQX1204-B

### 3.3V, 12.5Gbps 4 channel SAS3/SATA3/XAUI ReDriver with Pin Strap and I<sup>2</sup>C control

Pericom Semiconductor's PI3EQX1204-B is a SAS3/SAS2/SATA3/10GE, 4 differential channels ReDriver™. The device provides programmable equalization, output swing, pre-shoot, and de-emphasis 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.

PI3EQX1204-B 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 de-emphasis and pre-shoot circuitry provides flexibility with signal integrity of the signal after the ReDriver.

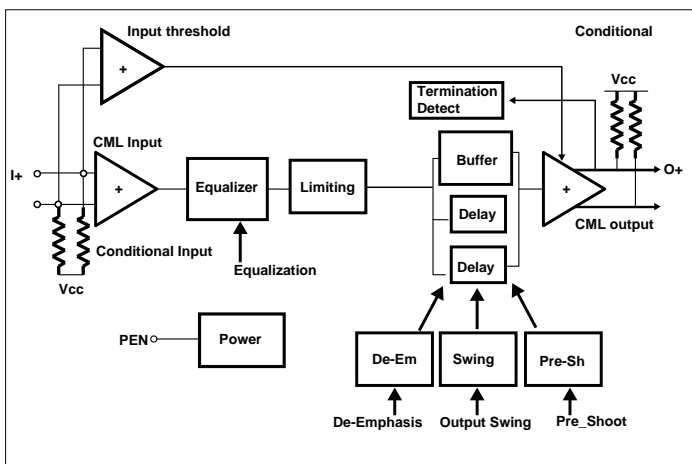
#### Applications

Servers, storage

#### Features

- Support up to 12.5Gbps serial link for SAS3, SAS2, SATA3, 10GE applications
- Supporting 4 differential channels
- Independent channel configuration of receiver equalization, output swing and pre-shoot/de-emphasis
- Per Channel Activity Detector with selectable input termination between 50Ω to V<sub>CC</sub> and 200KΩ to V<sub>CC</sub>
- Pin strap and I<sup>2</sup>C selectable device programming
- 3-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):
- 42-contact TQFN (9mm x3.5mm)

#### Block Diagram



#### Application Diagram

