

PI2EQX6804-A

6.5Gbps, 4-lane, SAS2.0/SATA3.0/XAUI ReDriver™ with Equalization & Emphasis

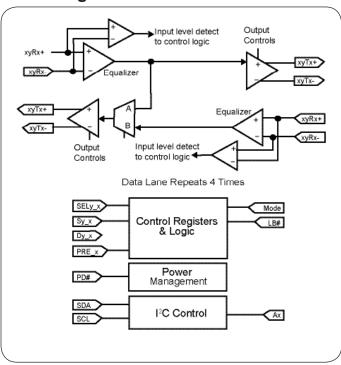
Pericom Semiconductor's PI2EQX6804-A is a low power, SAS2, SATA, XAUI signal ReDriver[™]. The device provides programmable equalization, amplification, and emphasis by using 8 select bits, to optimize performance over a variety of physical mediums by reducing Inter-symbol interference.

PI2EQX6804-A supports eight 100Ω Differential CML data I/O's between the Protocol ASIC to a switch fabric, across a backplane, or 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 emphasis circuitry provides flexibility with signal integrity of the signal after the ReDriver.

In addition to providing signal re-conditioning, Pericom's PI2EQX6804-A also provides power management stand-by mode operated by a power-down pin.

Block Diagram



Features

- Up to 6.5Gbps SAS2/SATA/XAUI ReDriver[™]
- Supporting 8 differential channels or 4 ports
- Pin strapped and I²C configuration controls (3.3V Tolerant)
- Adjustable receiver equalization
- Adjustable transmitter amplitude and emphasis
- 50Ω input/output termination
- Mux/Demux feature
- Channel loop-back
- OOB fully supported
- Single supply voltage, $1.2V \pm 0.05V$
- Power down modes
- Packaging (Pb-free & Green):
 - 100-contact LFBGA

Applications:

☐ Server ☐ Workstation ☐ Data Storage

Figure1

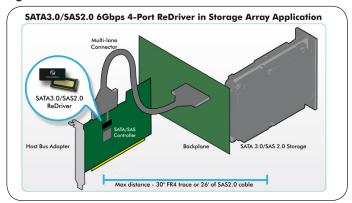


Figure1

Redrivers with emphasis and equalization signal conditioning technology ensure the integrity of high-frequency SAS2.0/SATA3.0 signals by opening closed signal eyes to recover data and meet strict compliance testing requirements. Increased signal margin also supports longer drive lengths over even low-quality cables

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Buffers & Line Drivers category:

Click to view products by Diodes Incorporated manufacturer:

Other Similar products are found below:

74AUP2G34FW3-7 HEF4043BP NL17SG125DFT2G PI74FCT3244L MC74HCT365ADTR2G Le87401NQC Le87402MQC 028192B
042140C 051117G 070519XB NL17SZ07P5T5G NLU1GT126AMUTCG 74AUP1G17FW5-7 74LVC2G17FW4-7 CD4502BE 59628982101PA 5962-9052201PA 74LVC1G125FW4-7 NL17SH17P5T5G NLV37WZ17USG NL17SH125P5T5G NLV37WZ07USG
RHRXH162244K1 74AUP1G34FW5-7 74AUP1G07FW5-7 74LVC1G126FW4-7 74LVC2G126RA3-7 NLX2G17CMUTCG
74LVCE1G125FZ4-7 Le87501NQC 74AUP1G126FW5-7 TC74HC4050AP(F) 74LVCE1G07FZ4-7 NLX3G16DMUTCG
NLX2G06AMUTCG NLVVHC1G50DFT2G LE87100NQC LE87100NQCT LE87290YQC LE87290YQCT LE87511NQC LE87511NQCT
LE87557NQC LE87557NQCT LE87614MQC LE87614MQCT 74AUP1G125FW5-7 NLU2G16CMUTCG MC74LCX244MN2TWG