



Product news

PCIe 3.0/SATA3 Combo ReDriver from Diodes Incorporated Offers Linear Equalization with Low-Power Operation

Plano, Texas – January 23, 2020 Diodes Incorporated (Nasdaq: DIOD) today announced [PI3EQX12904A](#) PCIe 3.0/SATA3 combo ReDriver with linear equalization that supports speeds up to 8Gbps. The PI3EQX12904A provides laptop, notebook, industrial PC, and embedded system developers with a robust, multiprotocol linear ReDriver that offers a flexible interface while also meeting current and standby power requirements.

As solid-state drives (SSDs) continue to displace HDDs in notebooks, laptops, industrial PCs, and embedded systems, there is increasing demand for interface devices that can drive extended PCB track lengths without degrading the signal. By complying with both PCIe and SATA protocols, the PI3EQX12904A provides manufacturers with a single solution that can be used in multiple products.

Designers need to address the potential performance issues inherent with driving control and data signals across a switch fabric, cables, PCB tracks or other connections. While most ReDrivers can provide the extra drive required to achieve this, the PI3EQX12904A also adds programmable equalization, linear swing, and flat gain capability to provide optimal performance when using various physical mediums.

The PI3EQX12904A supports PCIe 3.0 and SATA3 protocols over serial links running at 8Gbps (PCIe 3.0) and 6Gbps (SATA3). It features four 100Ω differential CML data I/O signals and is transparent to link training. Its adaptive power management features include automatic low-power mode with automatic receiver detection. In slumber mode, the inputs are monitored for any activity, and if detected, the corresponding channel automatically switches to active mode.

The PI3EQX12904A is available in a 42-TQFN (ZH) package.

Further information is available at www.diodes.com.

About Diodes Incorporated

Diodes Incorporated (Nasdaq: DIOD), a Standard and Poor's SmallCap 600 and Russell 3000 Index company, is a leading global manufacturer and supplier of high-quality application specific standard products within the broad discrete, logic, analog, and mixed-signal semiconductor markets. Diodes serves the consumer electronics, computing, communications, industrial, and automotive markets. Diodes' products include diodes, rectifiers, transistors, MOSFETs, protection devices, function-specific arrays, single gate logic, amplifiers and comparators, Hall-effect and temperature sensors, power management devices, including LED drivers, AC-DC converters and controllers, DC-DC switching and linear voltage regulators, and voltage references along with special function devices, such as USB power switches, load switches, voltage supervisors, and motor controllers. Diodes also has timing, connectivity, switching, and signal integrity solutions for high-speed signals. Diodes' corporate headquarters and Americas' sales office are located in Plano, Texas and Milpitas, California. Design, marketing, and engineering centers are located in Plano; Milpitas; Taipei, Taiwan; Taoyuan City, Taiwan; Zhubei City, Taiwan; Manchester, UK; and Neuhaus, Germany. Diodes' wafer fabrication facilities are located in Manchester and Greenock, UK, and Shanghai, China. Diodes has assembly and test facilities located in Shanghai, Jinan, Chengdu, and Yangzhou, China, as well as in Hong Kong, Neuhaus, and Taipei. Additional engineering, sales, warehouse, and logistics offices are located in Taipei; Hong Kong; Manchester; Shanghai; Shenzhen, China; Seongnam-si, South Korea; Munich, Germany; and Tokyo, Japan, with support offices throughout the world.

Recent news releases, annual reports and SEC filings are available at the Company's website: <http://www.diodes.com>. Written requests may be sent directly to the Company, or they may be e-mailed to: diodes-fin@diodes.com.

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