



Product news

ReDrivers from Diodes Incorporated Boost Signal Quality of High-Speed USB 3.2, 10Gbps Interfaces

Plano, Texas – February 20, 2020 Diodes Incorporated (Nasdaq: DIOD) today introduced a series of USB ReDrivers for the industrial, embedded, and consumer market segments. The [PI3EQX1004E](#) and [PI3EQX1002E](#) are USB 3.2 compliant, 5Gbps to 10Gbps, 2-Port/1-Port, linear ReDrivers. The devices provide adjustable linear equalization, output swing, and flat gain to optimize performance over a variety of physical media by reducing intersymbol interference. They are the industry's smallest ReDrivers and save board space by using packages that are up to 64% smaller than those traditionally used for similar products. Target applications include laptops, tablet PCs, desktop PCs, and gaming devices.

The ReDriver, also known as a repeater IC, regenerates signals to boost the signal quality of high-speed interfaces. Faster signal frequencies leave designers with less signal margin to design reliable, high-performance systems. Using equalization, pre-emphasis, and other technologies, a single ReDriver can adjust and correct for known channel losses at the transmitter and restore signal integrity at the receiver. This enables reliable communications with low bit error rates (BER).

The PI3EQX1004E/1002E are built using Diodes' patented technology, which enables them to extend PCB trace lengths while minimizing cost and power consumption. Linear ReDrivers can also deliver lower latency.

Requiring a supply voltage of 3.3V \pm 0.3V, PI3EQX1004E is offered in a 34-contact UQFN (4.5mm x 2.5mm), and the PI3EQX1002E is offered in a 24-contact UQFN (2.5mm x 2.5mm) 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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Company Contact:

Diodes Incorporated
Emily Yang
VP, Worldwide Sales and Marketing
P: 972-987-3900
E: pressinquiries@diodes.com

Investor Relations Contact:

Shelton Group
Leanne K. Sievers
EVP, Investor Relations
P: 949-224-3874
E: lsievers@sheltongroup.com