



Product news

PCIe 5.0 Clock Generators and Buffers from Diodes Incorporated Offer Forward Compatibility for Server, IPC, Networking, and Datacenter Applications

Plano, Texas – February 26, 2020 Diodes Incorporated (Nasdaq: DIOD) today announced the company's first families of clock generators and clock buffers that meet PCIe® 5.0 specifications while still complying with PCIe 4.0 and previous generations. This gives product developers the forward compatibility they require when developing server, storage, and networking equipment for datacenters that today use PCIe 4.0 but must be ready for the widespread roll-out of PCIe 5.0.

The [PI6CG33xxxC](#) family of PCIe clock generators and the [PI6CB33xxxx](#) family of PCIe clock buffers, comprising eight and nine devices, respectively, offer a wide variety of options, such as number of outputs and output impedance. The devices all feature on-chip termination, removing the requirement for external termination resistors and thereby saving BoM costs and board space.

The PCIe clock solutions offer low jitter with respect to both PCIe 4.0 and PCIe 5.0 versions of the PCIe specification, giving designers a simpler route to higher performance as the market moves towards higher data rates and as their product offerings evolve.

To further ease the design process, the devices in the PI6CG33xxxC and PI6CB33xxxx families feature programmable slew rate and output amplitude on each output, providing a high degree of flexibility and supporting different board layouts. This programmability helps ensure developers can achieve optimal performance under increasingly challenging design conditions.

The PI6CG33xxxC PCIe clock generators and the PI6CB33xxxx clock buffers are available now.

Further information is available at www.diodes.com.

PCIe is a registered trademark of PCI-SIG.

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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