



**Product news**

## **Industry's First HDMI 2.1 Linear ReDriver from Diodes Incorporated Optimized for Next-Generation Video Applications**

**Plano, Texas – October 2, 2019** – Diodes Incorporated (Nasdaq: DIOD) today announced the industry's first HDMI 2.1 transparent, linear ReDriver optimized for power and cost in digital TVs, laptop and desktop computers, VR devices, and gaming consoles. It is able to support video resolutions up to 10K.

The [PI3HDX12211](#) is the latest HDMI linear ReDriver from Diodes Incorporated and the first in the industry to comply with HDMI 2.1. Supporting speeds of up to 12Gbit/s per channel, the PI3HDX12211 is transparent to channel link training, rate, and coding. It offers ultra-low signal latency to ensure excellent signal integrity in high-performance applications.

HDMI 2.1 is the latest update to the HDMI specification, intended to enable even higher video resolutions and refresh rates. Bandwidth is increased to 48Gbit/s, making it possible to deliver uncompressed 8K video with HDR.

The transparent nature of the PI3HDX12211 means it is agnostic to protocol, supporting both static and dynamic HDR. Devices that implement HDMI 2.1 transmit static/dynamic HDR metadata over the interface. The PI3HDX12211 features four differential channels with programmable linear equalization, output swing linearity, and flat gain, controlled through an I2C interface or pin-strapping.

Operating from a 3.3V supply, the PI3HDX12211 dissipates just 220mW per channel and maintains a 1200mV peak-to-peak, output swing linearity. As higher video resolutions develop, the PI3HDX12211 will enable the latest visual experience in laptop and desktop PCs, gaming consoles, and DTVs and STBs as well as docking stations and peripherals.

Further information is available at [www.diodes.com](http://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, England; 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; and Munich, Germany, 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](mailto:diodes-fin@diodes.com).

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