



**Product news**

## **USB BC 1.2 Compliant Battery Charging Detector from Diodes Incorporated Supports Dual Roles to Simplify Host and Client Design**

**Plano, Texas – November 26, 2019** – Diodes Incorporated today announced the dual-role [PI3USB9201](#) USB BC 1.2 detector, which incorporates both host and client circuitry, enabling designers to optimize the BoM size and cost of adding USB Type-C® interface circuitry in devices such as laptops, tablets, smartphones, drones, and small home appliances.

Unlike current market solutions that require devices dedicated to either host or client mode, the PI3USB9201 enables developers to fully support the reversible and bidirectional flexibility of the USB Type-C interface with a single chip.

The PI3USB9201 reports detection results to the system via a 1MHz I<sup>2</sup>C interface. Four-pin selectable slave addresses help avoid bus conflict.

When configured as a host, the PI3USB9201 broadcasts the device status as standard downstream port (SDP), charging downstream port (CDP), or dedicated charging port (DCP) via the USB D+/D- pins, in accordance with BC 1.2. As a client, the PI3USB9201 monitors the D+/D- pins to detect the attached host type.

Featuring differential pass-through USB switches, the PI3USB9201 supports USB switch pass-through in host mode to permit system wakeup via mouse or keyboard. Further attributes include a wide supply-voltage range of 2.7V to 5.5V, ensuring dependable operation in battery-powered equipment and energy-saving sub-1µA current in shutdown mode.

The PI3USB9201 is in production now in the 2mm x 2mm 12-pin QFN package.

Further information is available at [www.diodes.com](http://www.diodes.com).

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## **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](mailto:diodes-fin@diodes.com).

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