



Product news

Second Generation USB PD Controller from Diodes Incorporated Provides Platform for Quick Charger Solutions with Low Standby Power

Plano, Texas – January 29, 2020 Diodes Incorporated (Nasdaq: DIOD) today announced the availability of the [AP43771](#) USB Type-C® power delivery (PD) controller, featuring an embedded microcontroller with one-time programmable memory. When combined with Diodes Incorporated's complementary technology, the AP43771 forms the basis for offline chargers, delivering between 18W and 33W while supporting Quick Charge™ with extremely low standby power consumption.

The AP43771 represents Diodes' second generation of highly integrated controllers optimized for quick chargers. It integrates support for USB PD revision 3.0 V1.1 and Qualcomm® Quick Charge (QC) 2.0, 3.0, and 4/4+ technology as well as battery charging (BC) revision 1.2.

AP43771 provides 18W when combined with Diodes' [AP39303](#) PWM switcher and [APR34709](#) synchronous rectification (SR) switcher. The AP43771 provides a 33W charger solution when combined with the [AP3303](#) PWM controller and [APR347](#) SR controller.

The programmable power supply (PPS) feature, which was introduced with the latest version of the USB PD specification, can also be supported by AP43771. The AP43771 can adjust the constant current and constant voltage (CC/CV) output driver in 50mA steps up to 6A and 20mV steps between 3V and 16V, respectively.

As size and cost are key requirements for volume-driven mobile charger applications, AP43771 is available in the small DFN30303-14 (3mm x 3mm) package and priced aggressively.

Further information is available at www.diodes.com.

USB Type-C is a registered trademark of USB Implementers Forum.

Qualcomm is a trademark of Qualcomm Incorporated, registered in the United States and other countries. Quick Charge is a trademark of Qualcomm Incorporated.

Qualcomm Quick Charge is a product of Qualcomm Technologies, Inc.

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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