



**Product news**

## **Automotive-Compliant, Real-Time Clocks from Diodes Incorporated Offer Low-Standby Current for Infotainment and T-Box Systems**

**Plano, Texas – January 28, 2020** – Diodes Incorporated (Nasdaq: DIOD) today announced that automotive-compliant versions of its popular, low-power, real-time clock (RTC) solutions, PT7C4363BQ and PT7C4563BQ (with an adjustable timer), are now available. Their wide temperature range makes them suitable for automotive applications, including infotainment systems, dashboard displays, and telematics boxes (T-Box).

The PT7C4363BQ and PT7C4563BQ are qualified to AEC-Q100 Grade 1, covering the temperature range of -40°C to +125°C. They are PPAP capable and are manufactured in IATF16949 certified facilities. A wide operating voltage range of 1.3V to 5.5V enables flexibility in design while a low-backup current of 400nA at 3.0V makes these devices extremely low power.

The parts are designed to interface directly to an external, low-cost 32.768kHz crystal with an equivalent series resistance of up to 100kΩ. As well as providing a real-time clock, the devices can also deliver a square-wave output with a selectable frequency of 1Hz, 32Hz, 1024Hz, or 32,768Hz. Accurate time and date data is accessed through the I2C interface. Adjustments for the number of days in the month is automatic, and an alarm function is also included.

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).

###

### **Company Contact:**

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

### **Investor Relations Contact:**

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