



Automotive-compliant CMOS Clock Buffers from Diodes Incorporated Deliver Low Jitter, Low Skew, and Low Power Operation

Plano, Texas – April 9, 2020 – Diodes Incorporated (Nasdaq: DIOD) today announced the introduction of its new family of automotive-compliant [clock buffers](#), designed for low power operation in ambient temperatures of up to 105°C, as found in advanced driver-assistance systems (ADAS), infotainment applications, and automotive gateways.

Increasing sophistication of automotive electronics has led to more complex system clock trees. The increased number of clock signals has created a demand for clock buffers that can deliver low jitter and low skew, while minimizing system power.

Implemented using a low-power CMOS process, the clock buffer family operates from an input voltage of between 1.5V and 3.3V. All clock inputs are aligned and synchronized, which maintains low skew, and the CMOS design introduces minimal phase noise, resulting in very low additive jitter.

The family includes the [PI6C49CB01Q](#) (one differential input, one single-ended output), [PI6C49CB02Q](#) (one single-ended input, two single-ended outputs), and [PI6C49CB04xQ](#) (one single-ended input, four single-ended outputs). All inputs and outputs are compatible with LVCMOS/LVTTL signal levels. The parts are qualified to AECQ-100 with full PPAP support and they are manufactured in IATF16949 certified facilities.

Further information is available at 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, delivers high-quality semiconductor products to the world's leading companies in the consumer electronics, computing, communications, industrial, and automotive markets. We leverage our expanded product portfolio of discrete, analog, and mixed-signal products and leading-edge packaging technology to meet customers' needs. Our broad range of application-specific solutions and solutions-focused sales, coupled with worldwide operations of 25 sites, including engineering, testing, manufacturing, and customer service, enables us to be a premier provider for high-volume, high-growth markets. For more information visit www.Diodes.com.

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