

PCI-SIG[®] Developers Conference June 13-14, 2023 Santa Clara Convention Center Santa Clara, CA Booth 18

PCIe[®] 3.0 Packet Switches from Diodes Incorporated Bring Greater Data Lane Versatility to Automotive Systems

Santa Clara, California – June 13, 2023 – Diodes Incorporated (Diodes) (Nasdaq: DIOD) will showcase at the PCI-SIG[®] Developers Conference in Santa Clara, CA a new series of automotive-compliant PCI Express[®] (PCIe[®]) 3.0 technology packet switches for next-generation, in-vehicle networking applications. The architecture used in these devices enables flexible port configuration with upstream, downstream, and cross-domain end-point (CDEP) ports being assigned according to requirements.

The <u>PI7C9X3G606GPQ</u> offers 6-port/6-lane operation, the <u>PI7C9X3G808GPQ</u> 8-port/8-lane, and the <u>PI7C9X3G816GPQ</u> 8-port/16-lane. The switches are targeted at ADAS, telematics, infotainment systems, and controllers that are utilized as zonal networking architectures continue to emerge.

The elevated signal integrity performance provided by these PCIe packet switches support long trace lengths, with losses of <30dB. They can connect with up to seven different endpoints and support multi-host applications. Each switch features a built-in low-power clock buffer, thereby simplifying designs, saving space, and reducing the associated component count. Their typical latency is only 150ns.

The ability to select between 6 and 16 lanes gives engineers using these new packet switches broad flexibility to develop projects quickly, and with the most suitable options. Advanced power management functions ensure constant energy-efficient operation.

"Diodes Incorporated's contributions to developing the PCIe specification-based products continuously bring new benefits to automotive and other markets, thus growing the PCIe ecosystem," said Al Yanes, PCI-SIG President and Chairperson.

"The flexibility of these PCIe packet switches offers many advantages for automotive applications," adds Dr. Jin Zhao, Senior Vice President, Analog Business Group, Diodes Incorporated. "This new series of automotive-compliant PCIe packet switches is designed to expand PCIe signal outreach in nextgeneration vehicle interconnections."

The PI7C9X3G606GPQ, PI7C9X3G808GPQ, and PI7C9X3G816GPQ are all AEC-Q100 Grade 3 qualified, manufactured in IATF 16949 certified facilities, and support PPAP documentation. They are supplied in 144-pin FCCSP, 196-pin HFCBGA, and 324-pin HFCBGA packages. In 1,000 piece quantities, the PI7C9X3G606GPQ is available at \$28, the PI7C9X3G808GPQ is available at \$46, and the PI7C9X3G816GPQ is available at \$74.

The PI7C9X3G808GPQ has been successfully used to aggregate dual automotive processors in an automotive processing reference design. Conference attendees can find Diodes at booth 18 where this demo board will be on display.

Further information is available on diodes.com here.

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 automotive, industrial, computing, consumer electronics, and communications 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 applicationspecific solutions and solutions-focused sales, coupled with worldwide operations of 32 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 <u>www.diodes.com</u>.

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