



Automotive-Compliant Video Switch from Diodes Incorporated Cuts Bill of Materials for Leading Interface Standards

Plano, Texas – April 30, 2024 – Diodes Incorporated (Diodes) (Nasdaq: DIOD) has introduced the [PI3WVR14412Q](#), an automotive-compliant* 20Gbps 1:2 video switch for in-cabin infotainment and advanced driver assistance systems (ADAS) applications. This device features a space-saving design and is qualified for elevated temperatures.

The switch has four high-speed lanes with a 10GHz bandwidth to handle DisplayPort™ 2.1, HDMI™ 2.1, MIPI® DPHY/CPHY, USB 3.2, and LVDS connections. In addition, there are switches for hot-plug detect (HPD), HDMI display data channel (DDC), and DisplayPort auxiliary (AUX) signals. Low insertion loss, low return loss, and low channel-to-channel crosstalk ensure excellent signal integrity.

Capable of passing high-speed differential signals up to 1.2V peak-to-peak, the PI3WVR14412Q allows a common-mode voltage from 0V to the supply rail, which can be up to 3.3V. This wide voltage range permits DC signal coupling, enabling designers to save PCB space otherwise needed for AC-coupling capacitors.

The PI3WVR14412Q is automotive-compliant*—qualified to AEC-Q100 Grade 2, manufactured in IATF 16949 certified facilities, and supports PPAP documents. The wide ambient operating-temperature range, from -40°C to 105°C, permits deployment in challenging environments or locations exposed to direct sunlight.

The [PI3WVR14412Q](#) is supplied in a 3mm x 6mm, 40-pin, leadless surface-mount TQFN package, and is available at \$1.50 in 3,500-piece quantities.

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 application-specific 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 www.diodes.com.

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