



Toshiba's New Low Power Consumption Photocopler Achieves High Speed Communication in Automotive Applications

New products reduce power consumption to 25% of that required by their predecessors

Düsseldorf, Germany, 10 October 2017 – Toshiba Electronics Europe today unveiled the TLX9310, a low power consumption photocopler housed in a 5-pin 3.7mm x 7.0mm x 2.2mm SO6 package. The new device is intended for high-speed communication in automotive applications, especially Battery Management Systems (BMS).

Integration of a high-power infrared LED and high-gain, high-speed photo IC chip reduces power consumption to below 25% of Toshiba's current devices (TLX9304, TLX9376, TLX9378) both during standby and active use in automotive applications. Supply current is just 0.3mA.

The TLX9310 provides high levels of safety isolation with 5.0mm (min.) creepage / clearance distances and a 3.75kVrms (min.) isolation voltage. The low propagation delay of 250ns (max.) permits use in high-speed communication systems.

The operating temperature range of -40°C to +105°C makes the photocopler ideal for demanding automotive applications.

Mass production shipments has commenced.

Notes:

The latest Gartner market report recognizes Toshiba as the leading manufacturer of optocouplers by sales in 2015 and 2016, with 23% of sale-based market share in CY2016. (Source: Gartner, Inc. "Market Share: Semiconductor Devices and Applications, Worldwide, 2016" 30 March 2017)

Toshiba will continue to deliver products that meet the needs of customers by promoting the development of a diverse portfolio of photocouplers and photorelays tailored to market trends.

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About Toshiba Electronics Europe

[Toshiba Electronics Europe GmbH](#) (TEE) is the European electronic components business of [Toshiba Electronic Devices and Storage Corporation](#). TEE offers European consumers and businesses a wide variety of innovative hard disk drive (HDD) products plus semiconductor solutions for automotive, industrial, IoT, motion control, telecoms, networking, consumer and white goods applications. The company's broad portfolio encompasses integrated wireless ICs, power semiconductors, microcontrollers, optical semiconductors, ASICs, ASSPs and discrete devices ranging from diodes to logic ICs.

Formed in 1973 in Neuss, Germany, TEE has headquarters in Düsseldorf, Germany, with branch offices in Germany, France, Italy, Spain, Sweden and the United Kingdom providing design, manufacturing, marketing and sales. Company president is Mr. Akira Morinaga.

For more company information visit TEE's web site at www.toshiba.semicon-storage.com.

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