



Toshiba Releases Industry's First High-Speed Communications Photocopplers that can operate from a 2.2V supply

New devices support low-voltage peripheral circuits and facilitate reductions in component count

Düsseldorf, Germany, 29th June 2020 – Toshiba Electronics Europe (“Toshiba”) has released the industry’s first high-speed communications photocopplers that can operate with a supply voltage as low as 2.2V. The devices are suited to a wide range of applications including programmable logic controllers (PLCs), measurement / control equipment and any other equipment requiring a high-speed digital interface.

The two devices have typical data transfer rates of 5Mbps (TLP2312) and 20Mbps (TLP2372) and are specifically designed to operate with low voltage rails, down to 2.2V. This allows them to work with the lower voltages used by many peripheral circuits, including those found in 2.5V LVCMOS, as well as accommodating voltages as high as 5.5V. This approach eliminates the need for a separate power supply rail to drive the photocopplers, thereby reducing the component count and saving space.

With a low threshold input current of 1.6mA (max.), and low supply current of 0.5mA (max.) across their -40°C to +125°C operating temperature range, the new photocopplers can be directly driven by microcontrollers, reducing power consumption. Both devices offer an isolation voltage of 3.75kVrms for safety isolation.

The new photocouplers are housed in 5-pin SO6 package with a maximum height of 2.3mm, offering a low profile for height-constrained applications and bringing greater freedom for component layout on printed circuit boards.

Shipments of both new photocoupler devices start today.

Follow the link below for more information on the new Toshiba photocouplers:

<https://toshiba.semicon-storage.com/eu/semiconductor/product/optoelectronics.html>

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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](#) (Toshiba). 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, ASSPs and discrete devices ranging from diodes to logic ICs.

TEE has headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom providing design, manufacturing, marketing and sales. The company president is Mr. Tomoaki Kumagai.

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

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