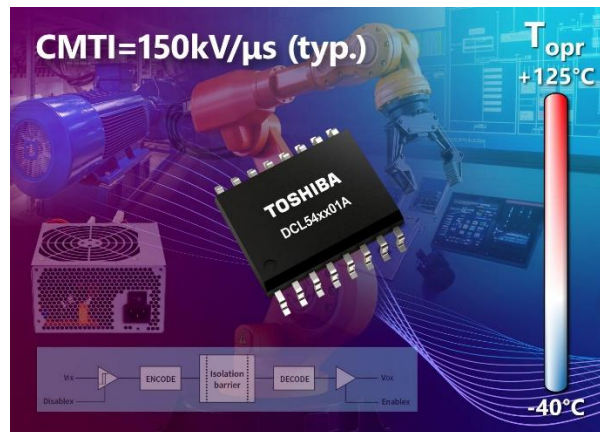




Toshiba introduces quad-channel digital isolators for high-temperature industrial applications

New devices combine 150Mbps data rates, 125°C operation and high noise immunity for industrial control systems

Düsseldorf, Germany, 6th August 2026 – Toshiba Electronics Europe GmbH (“Toshiba”) has expanded its standard digital isolator line-up with the DCL54xx01A series, comprising ten quad-channel devices that support data rates of up to 150 Mbps and operate at temperatures up to 125°C. Target industrial automation applications include programmable logic controllers (PLCs), I/O interfaces, motor control, inverters and switching power supplies.

The DCL54xx01A series operates from 2.25V to 5.5V and provides an isolation voltage of 5000Vrms for one minute. Typical propagation delay is 10.9ns, while typical pulse-width distortion is 0.8ns. The devices are housed in an SOIC16-W package and operate from -40°C to +125°C, making them suitable for industrial systems in high-temperature environments.

Industrial equipment using fast-switching power devices is often exposed to high levels of common-mode noise. To support signal integrity in these environments, the DCL54xx01A series uses Toshiba’s magnetic-coupling isolation technology and achieves typical common-mode transient immunity (CMTI) of 150kV/μs.

The series is available in 4:0, 3:1 and 2:2 forward/reverse channel-direction configurations, providing flexibility for a wide range of isolated communication interfaces. Devices are also available with different default output states and enable-control options, allowing designers to select a device according to application requirements.

The new devices complement Toshiba’s DCL341x0B series of standard digital isolators, which are designed for mid-speed communication up to 25Mbps in compact SSOP16

packages. The expanded line-up gives designers additional options when selecting devices based on communication speed, operating temperature and package requirements.

For more information on the DCL54xx01A series, visit: [here](#)

Follow the link below for more on Toshiba's standard digital isolators:
[Standard Digital Isolators](#)

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About Toshiba Electronics Europe

[Toshiba Electronics Europe GmbH](#) (TEE) offers European consumers and businesses a wide variety of hard disk drive (HDD) products plus semiconductor solutions for automotive, industrial, IoT, motion control, telecoms, networking, consumer and white goods applications. Next to HDDs, the company's broad portfolio encompasses power semiconductors and other discrete devices ranging from diodes to logic ICs, optical semiconductors as well as microcontrollers and application specific standard products (ASSPs) amongst others. In addition, TEE offers SCiB™ battery cells and modules with lithium titanium oxide (LTO) for heavy-duty applications.

TEE has its headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom providing marketing, sales and logistics services.

Visit Toshiba's websites at www.toshiba.semicon-storage.com and www.scib.jp/en for further company and product information.

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