



1-bit and 2-bit dual-supply bus transceivers from Toshiba support low-voltage level shifting

Achieve high-speed operation, making them suitable for a wide range of industrial and consumer applications using UART, GPIO, and SPI communication interfaces

Düsseldorf, Germany, 7th May 2026 – Toshiba Electronics Europe GmbH (“Toshiba”) expands its 74AVC series lineup of dual-supply bus transceivers with four new 1-bit products, 74AVC1T45NX, 74AVCH1T45NX, 74AVC1T45FU, and 74AVCH1T45FU, and two new 2-bit products, 74AVC2T45FK and 74AVCH2T45FK. The products can be used for bidirectional level-shifting between 0.7V or 0.8V and up to 3.6V without the need for additional components, simplifying communication between low-voltage SoCs and conventional-voltage industrial, consumer, and enterprise systems.

The devices employ a push-pull buffer configuration to enable high-speed operation, making them suitable for a wide range of applications, including UART, GPIO, and SPI communication interfaces. In addition to Toshiba’s existing 4-bit products housed in TSSOP16B packages, these new smaller bit configurations come in smaller package variation, such as the leadless XSON6, and the leaded SOT-363 (US6) and SOT-765 (US8), providing engineers flexibility in system design.

The 74AVC series supports dual power supplies without any power-on/off sequence restrictions. They use a directional-control method with DIR pins and a high-impedance control method with power-supply pins, which prevent contention on complex signal lines and enhance system reliability. These features simplify power-on sequence design and help reduce the risk of malfunction.

The 74AVCH series additionally includes an internal bus-hold function that prevents undefined states and allows stable signal retention, reducing external components such as pull-up and pull-down resistors.

Toshiba will continue to expand its lineup of low-voltage logic ICs to meet increasingly diverse system-design requirements and contribute to energy savings for a more efficient and sustainable society.

For more information about the new 1-bit and 2-bit 74AVC series of dual-supply bus transceivers, visit:

[74AVC1T45NX](#)

[74AVCH1T45NX](#)

[74AVC1T45FU](#)

[74AVCH1T45FU](#)

[74AVC2T45FK](#)

[74AVCH2T45FK](#)

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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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