



### **Toshiba launches H-bridge motor driver for high-torque applications**

The new TB67H482FNG 50V/5A brushed DC motor driver enhances operational performance with simplified integration and energy savings

**Düsseldorf, Germany, 27th February 2025** – Toshiba Electronics Europe GmbH (“Toshiba”) has introduced the TB67H482FNG, an advanced motor driver designed to enhance motor control in consumer and industrial applications. Optimised for efficient drive of large brushed DC motors, this driver is ideal for high-torque equipment such as air conditioning systems, printers, scanners, office automation, motorised furniture, robotics, and factory automation. With robust voltage and current capabilities and ultra-low sleep mode power consumption, the TB67H482FNG offers an efficient and reliable solution for motor control, providing simplified design integration for manufacturers and improved performance and energy savings for end-users.

The TB67H482FNG is a constant-current single H-bridge driver, featuring a motor output voltage rating up to 50V and an output current rating up to 5A. It is controlled by a PHASE/ENABLE input interface. Five torque setting input pins allow the motor current to be set to one of 32 levels. The device supports motor power supply voltages operational range from 8.2V to 44V and consumes less than 1µA (max.) in sleep mode. Motor output on-resistance ( $R_{DS(ON)}$ ) is only 0.2Ω (typ.) for both high-side and low-side (at 24V when a 2A output current is applied).

The TB67H482FNG motor driver eliminates the need for external charge pump capacitors, saving board space and reducing component count. The built-in regulator allows the motor to be driven by a single VM power supply.

Equipped with comprehensive error detection features, including overcurrent detection, thermal shutdown, under voltage lockout and error detection flag output the TB67H482FNG ensures reliable operation and system protection. It is housed in a

HTSSOP28 package measuring 6.4mm × 9.7mm, offering a compact and flexible solution for a variety of motor-driven applications.

Read more about the TB67H482FNG motor driver on Toshiba's website:

<https://toshiba.semicon-storage.com/eu/semiconductor/product/motor-driver-ics/brushed-dc-motor-driver-ics/detail.TB67H482FNG.html>

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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 also offers Toshiba's SCiB™ battery cells and modules with lithium titanium oxide (LTO) for heavy-duty applications and Silicon Nitride (SiN) ceramic substrates used in power semiconductor modules, inverters, and converters for their heat dissipation characteristics and strength.

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](http://www.toshiba.semicon-storage.com), [www.scib.jp/en](http://www.scib.jp/en) and [www.toshiba-tmat.co.jp/en/](http://www.toshiba-tmat.co.jp/en/) for further company and product information.

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