Toshiba starts shipping engineering samples of TXZ+ Family Entry-Class M4H Group standard microcontrollers

Featuring an Arm® Cortex®-M4 core to support small-scale system control of consumer products and industrial equipment

Düsseldorf, Germany, 23rd June 2026 – Toshiba Electronics Europe GmbH ("Toshiba") is now shipping engineering samples of its TXZ+™ Family Entry-Class M4H Group microcontrollers featuring a 32-bit Arm® Cortex®-M4 core with a floating-point unit (FPU) and memory protection unit (MPU). They are operating at up to 120MHz and integrate 256KByte of code flash memory and 18KByte of RAM. The TMPM4H4FYUG, TMPM4H2FYDUG, and TMPM4H1FYUG microcontrollers are designed for applications in small-scale system control of consumer products, such as air conditioners and washing machines, and in industrial equipment, including multifunction printers and factory automation systems.

As consumer products and industrial equipment become increasingly sophisticated and diversified, microcontrollers used in system control must deliver enhanced real-time capabilities and stability, support ease of design, deliver the versatility necessary for long-term operation, and be flexible enough to support development of derivative products. The new M4H Group microcontrollers are designed as entry-level products that provide essential functions. With a maximum operating frequency of 120MHz, they meet the computing performance and responsiveness requirements for consumer products and industrial equipment. They can also handle core system control applications, including control logic, interface processing, and timing control. The microcontrollers are available in 0.5mm pitch LQFP64 (TMPM4H4FYUG), 0.5mm pitch LQFP48 (TMPM4H2FYDUG), and 0.8mm pitch LQFP44 (TMPM4H1FYUG) packages.

M4H products support a supply voltage range of 2.7V to 5.5V and, by integrating a 10MHz high-speed oscillator with ±1% accuracy, help to reduce external components and improve design flexibility. This suits them for use in consumer products and industrial equipment with 5V power supplies. The microcontrollers also integrate essential peripheral functions for system control, including a 12-bit analog-to-digital converter

(ADC), timers, universal asynchronous receiver/transmitter (UART), serial peripheral interface (SPI), inter-integrated circuit (I^2C), and direct memory access (DMA). An additional feature is an advanced programmable motor driver (A-PMD) that supports brushless DC motor control, ensuring flexible use in line with application requirements and system configurations.

Toshiba supports device evaluation by providing engineering samples and development environments. The company also supports smooth progress from initial evaluation to application development by providing starter kits, sample software, Common Microcontroller Software Interface Standard (CMSIS) compliant drivers, and user environments for major Integrated Development Environments (IDEs).

Toshiba will continue to expand these enablement resources, including documentation, and further strengthen its microcontroller product lineup to meet diverse needs.

Follow the links below for more on the new products.
TMPM4H4FYUG
TMPM4H2FYDUG
TMPM4H1FYUG

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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.

Contact details for publication:
Toshiba Electronics Europe GmbH, Hansaallee 181, D-40549 Düsseldorf, Germany
Tel: +49 (0) 211 5296 0
Web: www.toshiba.semicon-storage.com/eu/company/news.html

News Release

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Contact details for editorial enquiries:
Michelle Shrimpton, Toshiba Electronics Europe GmbH
Tel: +44 (0)7464 493526
E-mail: MShrimpton@teu.toshiba.de

Issued by:
Birgit Schöniger, Pretzl Group Ltd.
Tel: +49 (0) 172 617 8431
Web: www.pretzl.com
E-mail: birgit.schoeniger@pretzl.com

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