NXP Introduces Its Smallest 8-bit S08 Microcontroller Yet for Broad Market

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The new 3 x 3 x 0.9 mm S08 MCU package from NXP further extends its S08 MCU portfolio to satisfy the broad market need for a tiny 8-bit MCU

NXP Semiconductors today announced its smallest 8-bit S08 microcontroller (MCU) – the MC9S08PA4AVDC microcontroller. Measuring just 3 x 3 x 0.9 mm, this new package helps address the growing challenge of shrinking PCB space for tomorrow's technologies, without increasing BOM costs. The MC9S08PA4AVDC can be used in various size-limited applications such as industrial control, BLDC motor control and Internet-of-Things (IoT) control that requires a tiny MCU.

The MC9S08PA4AVDC MCU joins NXP's low-cost, high-performance HCS08 family of 8-bit microcontrollers. This new MCU leverages the enhanced HCS08 central processor and is available with a variety of peripherals, memory sizes, and types. Featuring 8-bit S08 core, the MC9S08PA4AVDC MCU reaches up to 20 MHz bus at 2.7V to 5.5V across operating temperature range, offering more durability, flexibility, and reliability in harsh industrial and user interface environments. The MCU also integrates up to 4KB flash, 128 byte EEPROM and 512 byte RAM in the single tiny package.

NXP's S08 microcontrollers, including the new MC9S08PA4AVDC, are supported by CodeWarrior IDE. MC9S08PT60 TWR system is a low-cost standalone demo board designed to demonstrate capabilities of the MC9S08P family. It is pre-programmed with demos and enables quick and cost effective product evaluation and application development.NXP is continuing to explore the market of 8-bit MCU, and with this new tiny package is able to help customers save system size and BOM cost when developing new solutions.

Pricing and Availability

The MC9S08PA4AVDC MCU is available now. Please visit www.nxp.com/s08p for more information.