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New Product Announcement

Microchip's AVR-IoT Board, Now Available from Mouser, Offers Plug-and-Play Migration from AVR to Cloud

October 17, 2018 – Mouser Electronics, Inc., the authorized global distributor with the newest semiconductors and electronic components, is now offering the AC164160 AVR-IoT WG evaluation board from Microchip Technology. Designed to demonstrate the effectiveness of Microchip's AVR and PIC microcontrollers in Internet of Things (IoT) sensor node applications, the AVR-IoT WG board incorporates smart modules to reduce the burden of complex algorithm implementation by the microcontroller.

The Microchip AVR-IoT WG evaluation board, available from Mouser Electronics, combines an 8-bit megaAVR® 0-series microcontroller with a SmartConnect IoT module and a CryptoAuthentication™ device to reduce overall application complexity and allow engineers to quickly add Google Cloud connectivity to new and existing devices. The board also incorporates light and temperature sensors, embedded programmer and debugger, and onboard battery charging to support a wide range of IoT applications.

The board's Microchip ATmega4808 microcontroller is based on the flexible and low-power AVR architecture, widely recognized as an effective choice for embedded control design. The 20 MHz ATmega4808 features a two-cycle hardware multiplier, 48 Kbytes of flash, 6 Kbytes of SRAM and 256 bytes of EEPROM.

The Microchip ATECC608A is a member of the Microchip CryptoAuthentication family of high-security cryptographic devices which combine world-class hardware-based key storage with hardware cryptographic accelerators to implement various authentication and encryption protocols. The ATECC608A secure element integrates both Elliptic Curve Diffie Hellman (ECDH) and Elliptic Curve Digital Signature Algorithm (ECDSA) security protocols to safeguard keys and protect IP.

The Microchip ATWINC1500 Wi-Fi network controller specifically optimized for low-power IoT applications. The module offers a complete solution for wireless connectivity, supporting the complete TCP/IP stack and automatically authenticating a server's connection to the Google Cloud.

To learn more, visit www.mouser.com/microchip-ac164160-avr-iot-eval-board.

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With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 700 manufacturers. Mouser offers 23 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 customers in more than 220 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

Trademarks

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