New Product Announcement

Maxim Integrated's New Neural-Network-Accelerator MAX78000 SoC Now Available at Mouser

December 3, 2020 – Mouser Electronics, Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the new MAX78000 chip from Maxim Integrated. Built on a dual-core microcontroller and incorporating an ultra-low-power deep neural network accelerator, the MAX78000 delivers the computational horsepower necessary for high-performance artificial intelligence (AI) applications. The MAX78000 is ideal for applications including machine vision, facial recognition, object detection and classification, time-series data processing, and audio processing.

The Maxim MAX78000, available from Mouser Electronics, integrates two microcontroller cores for system control: an Arm® Cortex®-M4 processor and a 32-bit RISC-V coprocessor. The RISC-V processor integrates special features to support fast and low-power data loading to the neural network accelerator. Once configured and loaded with data, the MAX78000's 442-Kbyte-weight convolutional neural network (CNN) accelerator runs AI inferences at less than 1/100th of the power and over 100 times faster than microcontroller solutions.

The MAX78000 processor offers highly efficient power management, maximizing operating time for battery-powered Internet of Things (IoT) devices. With dynamic voltage scaling, the processor minimizes active core power consumption, while selectable SRAM retention is available in low-power modes. The processor's combination of low-power performance and highly efficient computing reduces latency by a factor of 100 and enables the execution of AI inferences at the IoT edge.

The MAX78000 is supported by the MAX78000 evaluation kit. In addition to a MAX78000 processor, the evaluation kit features a digital microphone, gyroscope/accelerometer, parallel camera module support, and a 3.5-inch touch-enabled color TFT display. Also available from Mouser is the MAX78000FTHR, a development board in the Adafruit Feather form factor, designed for rapid prototyping of smaller systems.

To learn more about the MAX78000, visit https://www.mouser.com/new/maxim-integrated/maxim-max78000-processor/.

As a global authorized distributor, Mouser offers the world's widest selection of the newest semiconductors and electronic components — in stock and ready to ship. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each of its manufacturer partners. To help speed customers' designs, Mouser's website hosts an extensive library of technical resources, including a Technical Resource Center, along with product data sheets, supplier-specific reference designs, application notes, technical design information, engineering tools and other helpful information.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an authorized semiconductor and electronic component distributor focused on New Product Introductions from its leading manufacturer partners. Serving the global electronic design engineer and buyer community, the global distributor's website, mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 1,100 manufacturer brands. Mouser offers 27 support locations worldwide to provide best-in-class customer service in local language, currency and time zone. The distributor ships to over 630,000 customers in 223 countries/territories from its 1 million-square-foot, state-of-the-art distribution facilities in the Dallas, Texas, metro area. For more information, visit www.mouser.com.

About Maxim Integrated

Maxim Integrated, an engineer's engineering company, exists to solve the designer's toughest problems in order to empower design innovation. The company's broad portfolio of high-performance semiconductors, combined with world-class tools and support, delivers essential analog solutions including efficient power, precision measurement, reliable connectivity and robust protection along with intelligent processing. Designers in application areas such as automotive, communications, consumer, data center, healthcare, industrial and IoT trust Maxim to help them quickly develop smaller, smarter and more secure designs. Learn more at https://www.maximintegrated.com.

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Further information, contact:
Kevin Hess, Mouser Electronics
Senior Vice President of Marketing
(817) 804-3833
Kevin.Hess@mouser.com

For press inquiries, contact:
Kelly DeGarmo, Mouser Electronics
Manager, Corporate Communications and Media Relations
(817) 804-7764
Kelly.DeGarmo@mouser.com