

New Product Announcement

Freescal S12ZVC MagniV Mixed-Signal MCU from Mouser Supports MSCAN, SENT, and LIN

May 6, 2015 – [Mouser Electronics](http://www.mouser.com), Inc., the global authorized distributor with the newest semiconductors and electronic components, is now stocking the new [S12ZVC MagniV™ Mixed-Signal Microcontroller](#) from [Freescal Semiconductor](http://www.freescale.com). The Freescal® S12ZVC 16-bit microcontroller is based on a 32 MHz S12Z core and has 192 KBytes of Flash memory, 12 KBytes of RAM, 2 KBytes of EPROM, integrates CAN Physical Layer, a 12-bit analog to digital converter (ADC), 8-bit DAC, and more. The S12ZVC supports a number of [automotive](#) and [industrial](#) communications protocols, including SENT, MSCAN, and LIN.

The new [Freescal S12ZVC MagniV Mixed-Signal Microcontroller](#), available from Mouser Electronics, is a highly integrated mixed-signal microcontroller that includes a 12 V voltage regulator, analog peripherals, and automotive/industrial serial protocols on a single chip. The S12ZVC is based on a high performance 16-bit core that includes a 32-bit ALU and a 24-bit address space. Integrated CAN physical layer with high immunity to EMI and 8 kV ESD resistance provides reliable operation in [harsh environments](#). Sixteen channels of 12-bit ADC and a single 8-bit 5 V digital-to-analog converter (DAC) provide analog signal capture and generation. Four pins support 25 mA sink and one pin supports 20 mA source currents for driving high current loads. The S12ZVC is capable of operating at high ambient temperature of up to 150°C, making it an ideal solution for space constrained and high temperature applications.

The S12ZVC supports a number of automotive and industrial communications interfaces. The robust SAE J2716 SENT (Single Edge Nibble Transmission) serial data protocol is for communicating with sensors in harsh environments. The MSCAN serial interface is based on the CAN 2.0B protocol and uses an advanced buffer arrangement system that results in predictable real-time behavior, making the protocol suitable for automotive, industrial, and general embedded applications. Two SCI interfaces support the LIN serial protocol.

Target applications for the Freescal S12ZVC include [automotive applications](#), CAN-based [sensors](#), [HVAC controllers](#), [lighting control](#), and [industrial applications](#).

To learn more, visit:

<http://www.mouser.com/new/Freescal-Semiconductor/freescal-s12zvc-mcu/> .

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About Mouser Electronics

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