

## New Product Announcement

# Texas Instruments MSP430i202x/3x/4x MCU Now at Mouser Has Four 24-bit ADCs

January 21, 2015 – [Mouser Electronics](http://www.mouser.com), Inc. is now stocking the [MSP430i202x Mixed Signal Microcontroller Family](#) from [Texas Instruments](http://www.ti.com) (TI). This low power 16MHz 16-bit RISC microcontroller has up to four 24-bit sigma-delta analog to digital converters (ADCs) with differential programmable gain amplifier (PGA) Inputs. Additional features include a hardware multiplier, 75nA shutdown mode, and a temperature sensor.

The [Texas Instruments MSP430i2020 Mixed Signal Microcontroller](#), available from Mouser Electronics, is the newest member of the [TI MSP430™ ultra low power 16-bit microcontroller family](#). The 24-bit sigma-delta ADCs are based on 2<sup>nd</sup> order, over-sampling sigma-delta modulators and digital decimation filters. The decimation filters are comb-type filters with selectable oversampling ratios of up to 256. This results in ADCs that have a high degree of resolution with a high degree of accuracy.

This microcontroller family comes with up to 32KBytes of Flash and up to 2KBytes of RAM. This MSP430 microcontroller is configured with two 16-bit timers with three capture/compare registers each, a 1.8V low dropout regulator, a brownout detector, and two enhanced universal serial communication interfaces. A 16x16 hardware multiplier supports signed and unsigned multiply, as well as signed and unsigned multiply accumulate.

The MSP430 microcontroller is built for [low-power](#) applications. This microcontroller family features several low-power modes including Active Mode current of 275µA/MHz at 16.384MHz, a Standby Mode with the watchdog timer active of 210 µA, an Off Mode with full RAM retention of 70µA, and a lowest-power Shutdown Mode of just 75nA with a wakeup from Standby in only 1µsec. Target applications include [smart meters](#), power monitoring and control, and [precision sensors](#).

To learn more, visit: <http://www.mouser.com/new/Texas-Instruments/ti-msp430i2040x-3x-2x-mcu/>.

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