



MSP430F5xx
Ultra-Low-Power MCUs



Highest performance and lowest active power in one speedy little package

Another MSP430 breakthrough in ultra-low-power MCU performance

Introducing the new MSP430F5xx generation of MCUs

The first devices in the new 5xx generation of ultra-low-power MCUs extend the MSP430 benefits of high-performance analog integration and ease of design to a new level. The MSP430F54xx devices offer industry-leading active power (as low as 160 $\mu\text{A}/\text{MHz}$) and 1.5- μA standby current (with full RAM and status retention and a 32-bit RTC), all with 25 MHz of peak performance. Intelligent peripherals like the 12-bit ADC draw power only when in operation and an advance power-management module and unified clock system allow the standby and active currents to be dynamically adjusted.

Key benefits

- Leading performance
- Increased design options
- Complete ecosystem

Key applications

- Metering
- Security
- Portable Medical
- Industrial
- General Purpose

Part Number	Memory (Flash/RAM)	Package	Port Pins
MSP430F5438IPZ	256/16KB	100-pin QFP	83
MSP430F5437IPN	256/16KB	80-pin QFP	64
MSP430F5436IPZ	192/16KB	100-pin QFP	83
MSP430F5435IPN	192/16KB	80-pin QFP	64
MSP430F5419IPZ	128/16KB	100-pin QFP	83
MSP430F5418IPN	128/16KB	80-pin QFP	64

Get more information and order samples today at www.ti.com/5xx