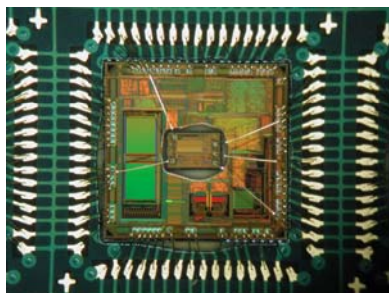




## MSP430 Microcontrollers

Chip Supply is pleased to offer Texas Instruments' MSP430 line of Ultra-Low Power Microcontrollers in unencapsulated die form and in Chip Scale Packages. The MSP430 family is suitable for many low power applications where both analog and digital signal processing are required, such as Utility Metering, Portable Measurement, & Intelligent Sensing.

Using leadership in both mixed-signal and digital technologies, the MSP430 enables system designers to simultaneously interface to analog signals, sensors, and digital components while maintaining low power. The MSP430 family of 16-bit RISC mixed-signal processors provides the ultimate solution for battery powered measurement applications.



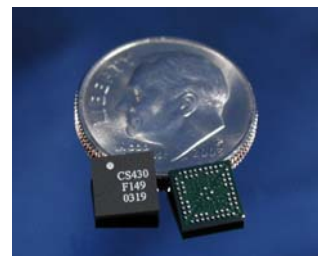
### Key Features of the MSP430 product line are:

- Ultra-low power architecture extends battery life
  - $\mu\text{A}$  RAM retention
  - $0.8 \mu\text{A}$  real-time clock mode
  - $250 \mu\text{A}/\text{MIPS}$  active
- High performance analog ideal for precise measurements
  - Modern 16-bit RISC CPU enables new application at a fraction of the code size
- In-system programmable Flash permits:
  - Flexible code changes
  - Field upgrades
  - Data logging

Working together, Texas Instruments and Chip Supply have determined which products are most desired by the industry in die form (call CSI for the list of devices offered). For those designers seeking a reduction in size or weight, however still want the ease of using a package, Chip Supply offers most available parts in Chip Scale Package form. If the application requires further reduction in size or additional functionality by adding other die to the package, please call one of Chip Supply's sales representatives to begin finding a solution to meet your needs.

### Chip Supply MSP Product / Service Offerings

- Wafer Bumping and Redistribution (RDL)
- Wafer Processing - Saw / Sort / Inspect
- Ceramic / Hermetic Packaging
- Standard Monolithic Chip Scale Packages (CSP)
- Custom Monolithic or Multiple Die Package Solutions



### Chip Supply Sales Offices

**Headquarters**—Orlando, FL

P: 407.298.7100

**Northeast Office**—Philadelphia, PA

Christine Unger—215.943.5103

**Central US Sales Office**—Austin, TX

Kevin Kendrick—512.261.3335

**Western US Sales Office**—San Jose, CA

Mark Hartung—408.517.0640

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John Kay—44.161.633.6627



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