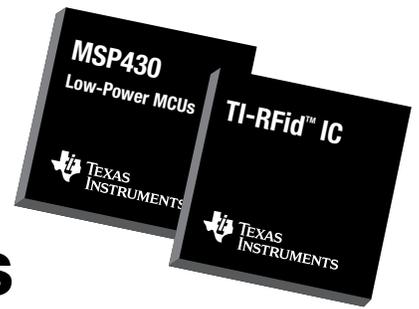


# MSP430 Ultra-Low-Power MCUs and TI-RFid™ Devices



The Texas Instruments (TI) portfolio of MSP430 microcontrollers and TI-RFid devices is an ideal fit for low-power, robust RFID reader and transponder solutions. Together, MSP430 and TI-RFid devices help RF designers achieve low power consumption, best-in-class read range and reliable performance at a competitive price.

The MSP430 product line offers the unique combination of ultra-low-power consumption and power-saving mechanisms, along with high performance integrated analog. This offers solution providers a flexible and complete portfolio of code- and architecture-compatible devices, ideal for RFID and other wireless protocols.

TI is the world's largest integrated supplier in radio frequency identification (RFID), with millions of TI-RFid tags, smart labels, and RFID readers manufactured for use in asset tracking, contactless payments and secure ID applications. And, TI's MSP430 ultra-low-power MCU is an ideal fit for numerous wireless solutions.

TI's MSP430 MCU and TI-RFid solutions support a wide range of applications such as access control, asset tracking, transportation, building automation and security systems, pre-payment, automatic meter reading systems and other monitoring and control applications.

For more information, visit [RFID Systems](#) and [MSP430](#) on [www.ti.com](http://www.ti.com).

[www.ti.com/rfid](http://www.ti.com/rfid)

[www.ti.com/msp430](http://www.ti.com/msp430)

**MSP430 and TI-RFid Selection Table**

Applications	Access Control, Digital Door Lock, Medical, POS, Ticketing, eMetering Prepayment, Asset Tracking, Inventory Control, Product Authentication	Automobile Immobilizer, Asset Tracking, Access Control, Wireless Payment, Animal Tracking, Production Tracking, Medical	Ultra-Low-Power Data Logger, Wireless Battery-less Sensor Interface, Multi-purpose LF Interface to a Microcontroller, Remote Control Applications, Medical and Energy Harvesting
TI-RFid	TRF7960 TRF7961 13.56MHz Reader	TMS3705 134kHz Reader	TMS37157 134kHz Transponder IC (RTM-3Q09)
TI MCU	MSP430F2xxx	MSP430F2xxx	MSP430F2xxx

▲ These are recommended devices. Many MSP430 devices can be used depending on Flash/RAM requirements of the software solution.

# TRF7960/7961 HF Reader IC



The TRF7960/7961 is a high-frequency (13.56 MHz), multi-standard radio frequency identification (RFID) reader IC product family which supports ISO/IEC 14443A/B, ISO/IEC 15693, ISO/IEC 18000-3 and TI's contactless commerce and third party network. A reference design and source code for a TRF7960/7961 plus a MSP430 MCU solution is available for easy evaluation.

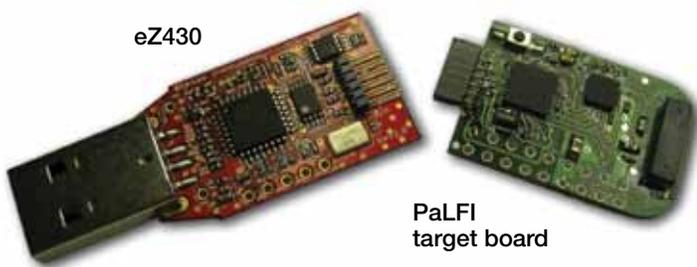


▲ TRF7960 demo kits

## MSP430 Resources for RFID Solutions

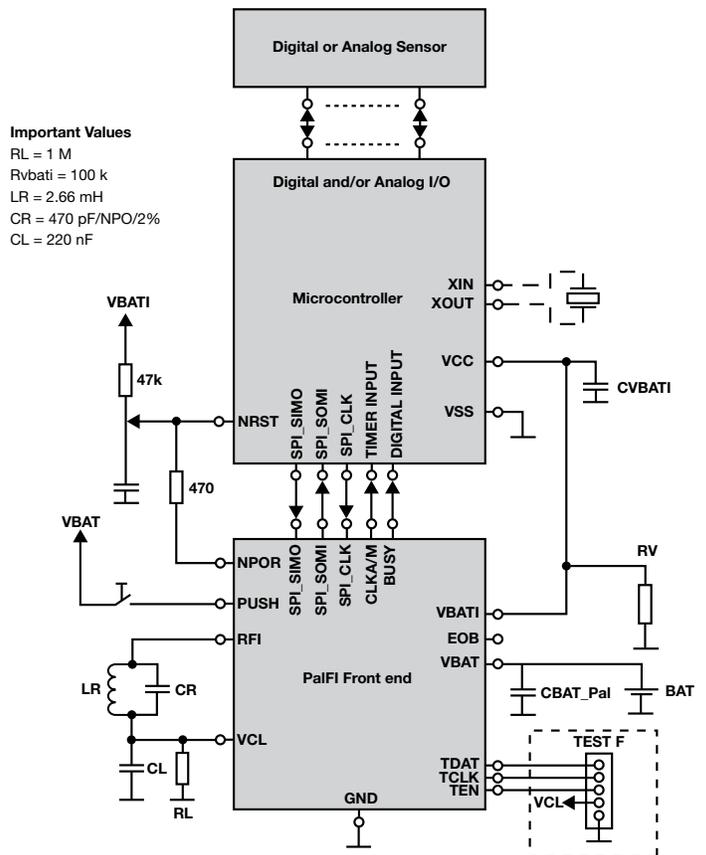
Tool Name	Description	Wireless Solution
TRF7960 EVM	Evaluation Module for TRF7960 and MSP430	RFID
EVM User Guide	Reference design and source code for TRF960 EVM with MSP430	RFID

# TMS37157 PaLFI (Passive Low Frequency Interface)



▲ TMS37157 PaLFI demo kit

The PaLFI (TMS37157) combines a low frequency transponder with an SPI interface and power management for a connected MSP430. It is the ideal device for any data logger, sensor or remote control application enabling operation without the need of a battery.



Sign up for a **my.ti.com account** to get more information on TI's family of MCUs.

Subscribe to the MCU Newsflash at **www.ti.com/mcunewsflash** to stay up-to-date on TI's MCUs.

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