



# MSDI with Suppressed Wakeup

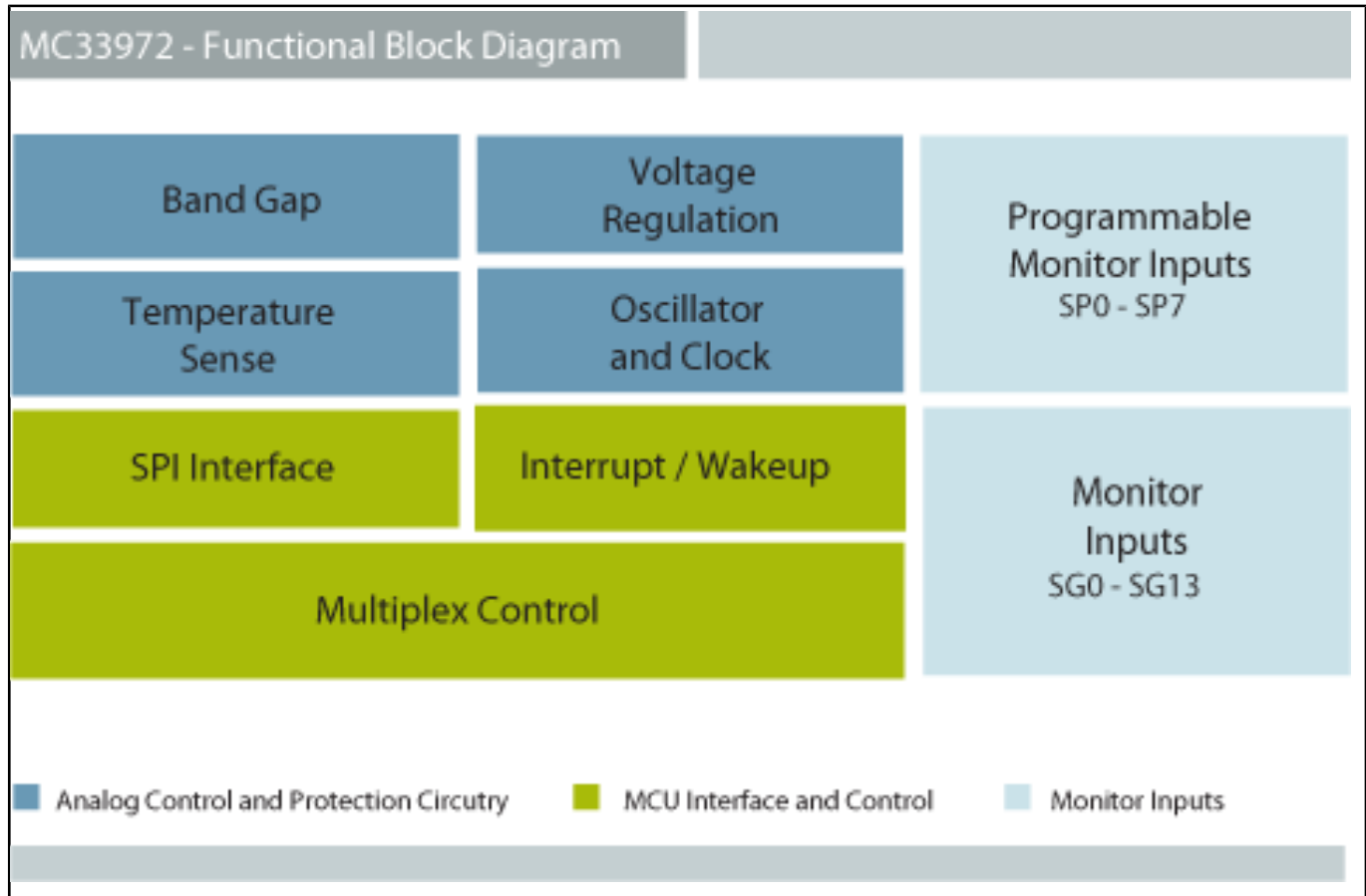
## MC33972

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The NXP® MC33972 multiple switch detection interface with suppressed wake-up is designed to detect the closing and opening of up to 22 switch contacts.

- The switch status, either open or closed, is transferred to the MCU through a SPI
- Features a 22-to-1 analog multiplexer for reading inputs as analog. The analog input signal is buffered and provided on the AMUX output pin for the MCU to read
- Two modes of operation:
  - Normal: allows programming of the device and supplies switch contacts with pull-up or pull-down current monitoring switch change of state
  - Sleep: provides low quiescent current, making MC33972 ideal for automotive and industrial products requiring low sleep state currents

## NXP MC33972 Power Actuation Block Diagram



View additional information for [MSDI with Suppressed Wakeup](#).

**Note:** The information on this document is subject to change without notice.

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