

SI2000

Complete 4-Channel Motion Control System

Product Feature Sheet

Features

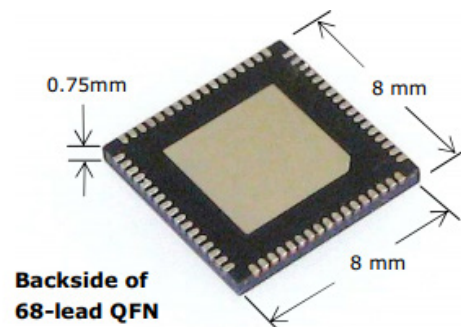
- 4 Bi-directional PWM motor control channels
- 4 Kelvin motor current sense pairs
- 10 multi-purpose sensor inputs
- Internal 10-bit ADC
- Integrated 8051 micro controller
- 1KB Internal RAM
- On-Chip linear regulator
- 3 - 40 V operation
- Internal oscillation
- SPI external interface
- Operating temperature range: -40 °C to +85 °C

Packaging

- 68-lead QFN Pb-free plastic package (8 x 8 x 0.75mm)

Typical Applications

Low cost, full animation
Electromechanical systems



Device Overview

The SI2000 is the first integrated multi-channel motion controller IC for electromechanical systems. Precision motion control is achieved with 4 bi-directional PWM motor controls and 4 Kelvin motor current sense inputs.

Ten general purpose inputs feeding a 10-bit ADC provide flexible input or feedback sensing, including battery level, temperature, proximity, position, IR and many other sensing needs. The integrated 8051 micro controller provides custom programmability.

The SI2000 has been optimized for high-density systems with minimum board area and external part count.

SI2000 Block Diagram

